

# **Aboriginal Communities Water Services Drinking Water Quality**

Annual Report 2024-25



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## About this report

Water Corporation's 2024-25 Aboriginal Communities Water Services Drinking Water Quality Annual Report is a review of our performance for the financial year ending 30 June 2025.

This report is designed to provide our customers and the wider Western Australian public with information on the water quality of these services.

Publication of this report allows us to meet the requirements of the [Australian Drinking Water Guidelines](#), our [Water Services Licence](#) with the Economic Regulation Authority, our [Memorandum of Understanding](#) with the Department of Health and the National Performance Reporting requirements under the National Water Initiative.

This is our second Aboriginal Communities Water Services Water Quality Annual Report; we trust it provides our customers with the information they require about their water services.

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- Department of Water and Environmental Regulation
  - Public Drinking Water Source Areas
  - Hydrography Linear Hierarchy
- Landgate
  - Road Centrelines
  - Town sites
- Geoscience Australia
  - Australian Coastline

## Acknowledgement of Country

In the spirit of reconciliation, Water Corporation acknowledges the Traditional Custodians of Country throughout Western Australia and their enduring connections to land, sea and community. We pay our respects to Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

## Further information and feedback

For further information about our Aboriginal Communities Water Services water quality or to provide feedback on this report:

- Call us on 13 13 85
- Visit [watercorporation.com.au](http://watercorporation.com.au)

## Acronyms

| Acronym          | Description                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------|
| <b>ACWS</b>      | Aboriginal Communities Water Services                                                            |
| <b>ADWG</b>      | Australian Drinking Water Guidelines                                                             |
| <b>ARD</b>       | Annual Radiation Dose                                                                            |
| <b>CFU/100ml</b> | Colony forming units per 100 millilitres                                                         |
| <b>DoC</b>       | Department of Communities                                                                        |
| <b>DoH</b>       | Department of Health                                                                             |
| <b>ERA</b>       | Economic Regulation Authority                                                                    |
| <b>KRSP</b>      | Kimberley Regional Service Providers                                                             |
| <b>LED</b>       | Light-emitting diode                                                                             |
| <b>mg/L</b>      | Milligrams per litre                                                                             |
| <b>MoU</b>       | Memorandum of Understanding between Water Corporation and Department of Health on Drinking Water |
| <b>mSv/year</b>  | Millisieverts per year                                                                           |
| <b>NgS</b>       | Ngaanyatjarra Services                                                                           |
| <b>NTU</b>       | Nephelometric Turbidity Units                                                                    |
| <b>NWGSP</b>     | National Water Grid Science Program                                                              |
| <b>PMM</b>       | Pilbara Meta Maya Regional Aboriginal Corporation                                                |
| <b>REMS</b>      | Remote Essential and Municipal Services                                                          |
| <b>RNTBC</b>     | Registered Native Title Body Corporates                                                          |
| <b>RO</b>        | Reverse Osmosis                                                                                  |
| <b>RSP</b>       | Regional Service Providers                                                                       |
| <b>TCU</b>       | True Colour Units                                                                                |
| <b>TDS</b>       | Total Dissolved Solids                                                                           |
| <b>UF</b>        | Ultra filtration                                                                                 |
| <b>UV</b>        | Ultraviolet                                                                                      |
| <b>WSAA</b>      | Water Services Association of Australia                                                          |

## Introduction

On 1 July 2023, responsibility for the management of water services for 137 Aboriginal communities, previously provided through the Department of Communities' Remote Essential and Municipal Services (REMS) program, was transferred to Water Corporation. In January 2025, four town-based communities adjacent to Fitzroy Crossing were included in the Aboriginal Communities Water Services (ACWS) program to ensure that maintenance aligned with the planning for infrastructure upgrades.<sup>1</sup>

The REMS service model, asset requirements and regulation differed from standard Water Corporation practice. As a regulated water service provider, Water Corporation was appointed to facilitate improved oversight and use its expertise to uplift operations, management, and performance of the ACWS schemes and bring them into alignment with equivalent water services in accordance with Target 9b of the *National Agreement on Closing the Gap*.

The ACWS communities are grouped into three geographical regions - Kimberley, Pilbara and Mid-West, and Goldfields Central. On-the-ground operation and maintenance of water services is carried out by three contracted Aboriginal-owned regional service providers (RSPs). Kimberley operations are undertaken by [Kimberley Regional Service Providers](#) (KRSP). [Pilbara Meta Maya Regional Aboriginal Corporation](#) (PMM) provides services to Pilbara and Mid-West, and [Ngaanyatjarra Services](#) (NgS) provides services to Goldfields Central.

At the time of transfer, 88 of the communities were managed to a potable water standard.<sup>2</sup> The Fitzroy 4 and another 44 communities<sup>3</sup> do not receive the same level of service as the 88, are not yet part of the compliance monitoring or reporting against the Australian Drinking Water Guidelines (ADWG), and there is limited information on their assets. The remaining five communities' water supplies are delivered through larger, adjacent schemes (refer to *Where does your water come from*, page 14).<sup>4</sup>

The potable services are not entirely consistent with the Memorandum of Understanding between Water Corporation and Department of Health on Drinking Water (MoU) or the ADWG best management practices as required for Water Corporation's preexisting schemes under its Water Services Licence. Water Corporation has received funding to support enhancements to assets, routine maintenance, compliance monitoring, and reporting for these communities against the ADWG to align operation of these schemes with its existing regulatory commitments and improve water quality.

ACWS has been created as a separate region within Water Corporation's operational structure to ensure the management of water services aligns with our standard business practices. We continue to work collaboratively with the communities, service providers, and government agencies to improve drinking water services using a risk-based approach integral to the ADWG, as required by the Department of Health (DoH).

Water Corporation is continuing to focus on reducing microbiological and acute chemical health risks. While improvements are implemented, some schemes will have additional measures, such as bottled water or water quality advisories, to ensure community safety.

In the second twelve months since the transfer, Water Corporation has continued to improve monitoring and response to water quality issues, including better communications to communities, service providers, and regulators. We continue to focus on assessing current infrastructure and risks for informing future investment and planning, laying the foundation for improved water quality across communities.

We have continued to improve water quality monitoring, moving to standard Water Corporation contracted laboratories for all water analyses. This has allowed integration with our standard systems, improved data flow and visibility.

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<sup>1</sup> Hereafter referred to as the 'Fitzroy 4'

<sup>2</sup> Hereafter referred to as the '88'.

<sup>3</sup> Hereafter referred to as the '44'

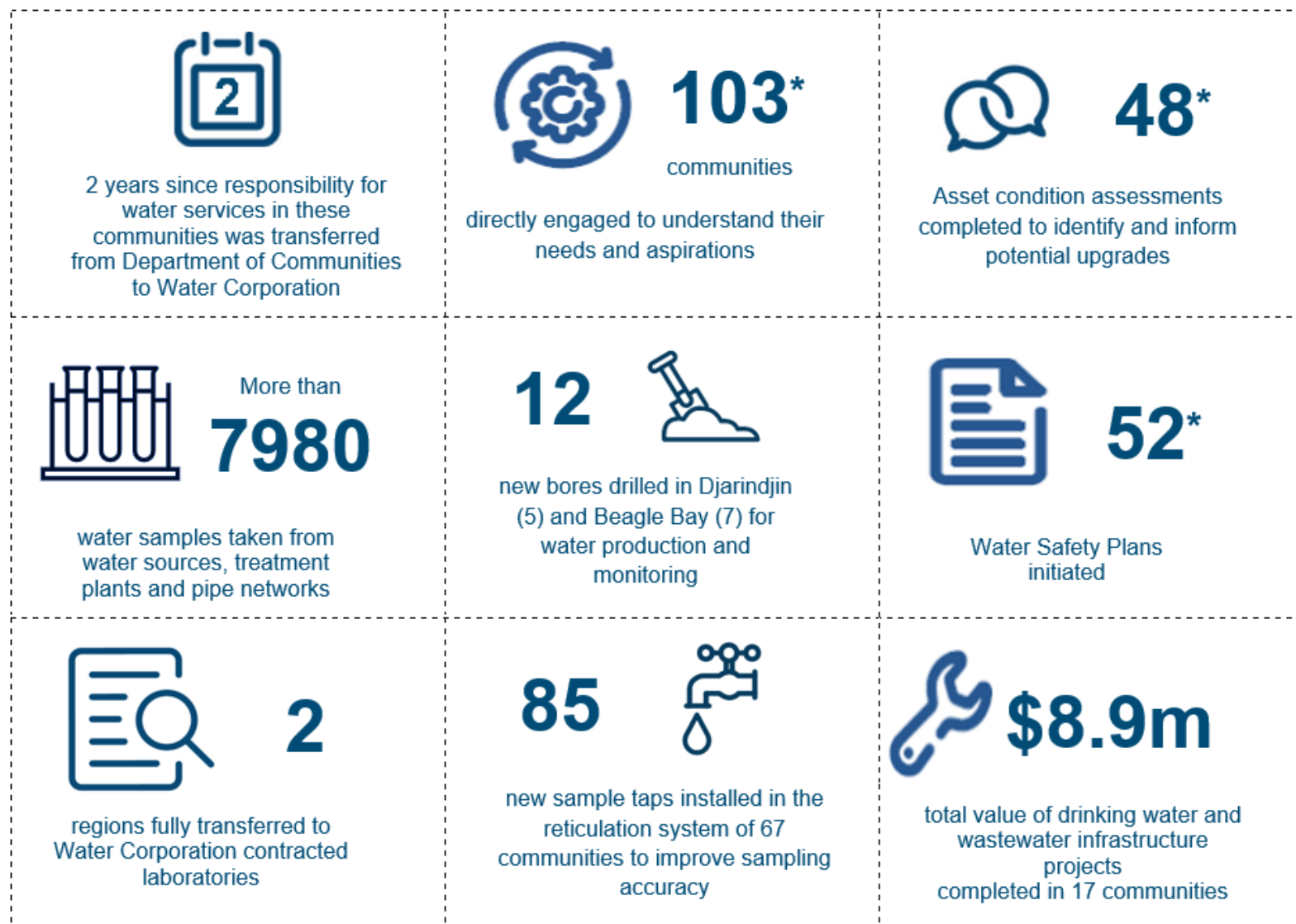
<sup>4</sup> Hereafter referred to as the '5'.

While we include some information on all ACWS communities, the focus of this report, as required by DoH, is the 88 communities and their compliance with the ADWG.



**Figure 1: Wakathuni elevated tank**

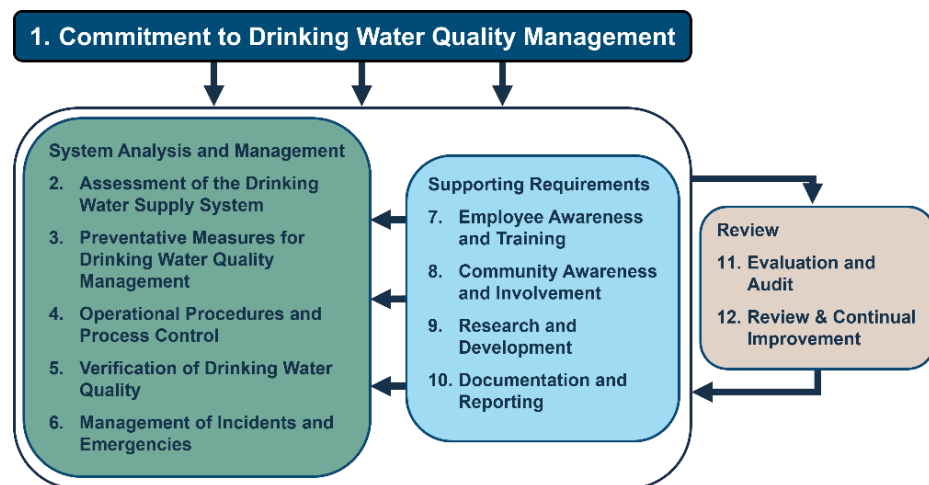
## Achievements at a glance



\*Cumulative over 2 years

## Drinking water quality risk management

The National Health and Medical Research Council define the requirements for safe drinking water in Australia through the ADWG. These guidelines include a 12 -element framework for best practice management of drinking water supplies (the Framework) designed to integrate all facets of the drinking water quality management and assurance system (refer to figure 2).



**Figure 2: Framework for the management of drinking water quality (ADWG)**

## Engagement with the Department of Health

DoH regulates drinking water quality in Western Australia. We have an MoU with DoH which requires us to work towards continual improvement in implementing the ADWG and its Framework for the management of drinking water quality. More specifically, it requires us to comply with the microbiological, chemical health, and radiological parameters as specified in the ADWG (refer to *Appendix B – list of sampling parameters*, pages 34-35). This forms part of our Water Services Licence as issued by the Economic Regulation Authority (ERA). Along with DoH, we recognise the practices and processes used to maintain high levels of drinking water quality need to be transparent to the community.

Significant investment over the next 10 years is aimed at improving health related microbiological and chemical drinking water quality in ACWS communities' water supplies. For aesthetic (non-health) parameters, the MoU states that we should comply as far as practical with the ADWG. It is accepted full compliance with non-health related characteristics may take many years, bearing in mind the significant investment required to achieve this.

The MoU connects all facets of nationally and internationally recognised drinking water guidelines, standards, and quality management systems to ensure the safe and continuous supply of water to our customers. It requires us to notify DoH within 24 hours if monitoring results are outside ADWG health guideline limits or any event occurs which could pose a risk to public health. We meet regularly with DoH to discuss ongoing performance, issues, and projects, providing them with our monitoring results and actions taken between meetings.

## Our Commitment

Water Corporation is seeking to implement consistent processes to achieve similar outcomes between existing Water Corporation localities and the ACWS communities.

We are committed to providing our customers with safe, high-quality drinking water that consistently meets the requirements of the ADWG, our customers and other regulatory provisions.

To achieve this, we have partnered with relevant agencies to:

- Manage water quality from water source to water meter and promote confidence in the supply of safe drinking water.
- Incorporate the needs and expectations of our customers, stakeholders, regulators, and employees into our planning.
- Strongly advocate source protection and the primacy of drinking water quality over other land uses.
- Use a risk-based approach to identify and manage hazards and ensure appropriate barriers to protect water quality.
- Routinely monitor our systems and use effective reporting mechanisms to provide relevant and timely information on our performance.
- Use appropriate contingency planning and maintain incident response capability.
- Meet the health-related requirements of the ADWG and work to progressively improve the aesthetic quality of water supplied\*.
- Contribute to setting industry regulations and guidelines, and other standards relevant to public health and the water cycle.
- Continually improve our practices by assessing performance against corporate objectives and stakeholder expectations.

- Constantly strive to be a leader in operational training through exploration of visual intelligence technologies to supplement existing face-to-face courses.
- Participate in research and development activities to ensure we continually improve understanding and management of our drinking water supply systems.

We will implement and maintain a drinking water quality management system consistent with the ADWG to effectively manage the risks to drinking water quality. All Water Corporation employees, partners and contractors are responsible for understanding their role in implementing and continuously improving the drinking water quality management and outcomes.

\* Water Corporation has standards and scheme requirements that allow us to comply with ADWG. We are working towards consistently meeting the ADWG and fulfilling these commitments in the ACWS. Where a community water supply exceeds ADWG health guideline limits, and a long-term solution has not yet been delivered and proved, we issue a water quality advisory in consultation with the DoH, and provide bottled water to ensure the community has access to safe drinking water.

For further information please refer to our [Drinking Water Quality Policy](#) and [Drinking Water Source Protection Policy](#)

## Improving drinking water quality

Staged over an initial 10 years, Water Corporation is progressively upgrading infrastructure in the 141 Aboriginal communities and improve the management and delivery of services.

On transfer, many of the frameworks and processes already in place for managing our existing drinking water localities were able to be applied to our ACWS communities and now deliver higher levels of monitoring and reporting to better understand requirements and identify potential improvements.



**Figure 3: Water Corporation staff with board members of Gooniyandi Aboriginal Corporation RNTBC**

Water Corporation has focused on effective community and stakeholder engagement as we seek to understand individual water service needs, experiences, and aspirations. As of 30 June 2025, 103 communities have been directly engaged.<sup>1</sup> In addition to this, we have established relationships with 67 Registered Native Title Body Corporates (RTNTBC).<sup>1</sup>

<sup>1</sup> Cumulative over two years.

Physical assessment of the condition of existing water infrastructure has been conducted in more than 45 communities as of 30 June 2025.<sup>1</sup> This has informed the development of our Water Safety Plans and planning for infrastructure upgrades and enabled improved understanding of risk and risk management.



**Figure 4: Thorough physical assessment of asset conditions informs improvement projects**

Programs of work have commenced to scope and plan more significant, longer-term solutions to address some higher-risk water quality issues. These will be included in future annual reports as they are progressed.

Projects that are underway include drilling new bores in Djarindjin and Beagle Bay, to enable the communities to be supplied with water from more secure and protected water sources. An upgrade and refinement to the reverse osmosis water treatment unit installed at Kiwirrkurra in 2023, improving efficiency and ensuring the naturally occurring fluoride and nitrate in the source water is reduced below the ADWG health guidelines limits, is also in progress. This will enable the removal, in 2026, of the community-wide water quality advisory. (refer to *Monitoring, incident management and drinking water quality performance – Water quality advisories – ongoing*, page 29)



**Figure 5: New bores being drilled at Beagle Bay**

A project to install new water sampling taps that meet our sampling tap standard across the 88 communities has commenced, reducing the risk of introducing contamination into the sample.



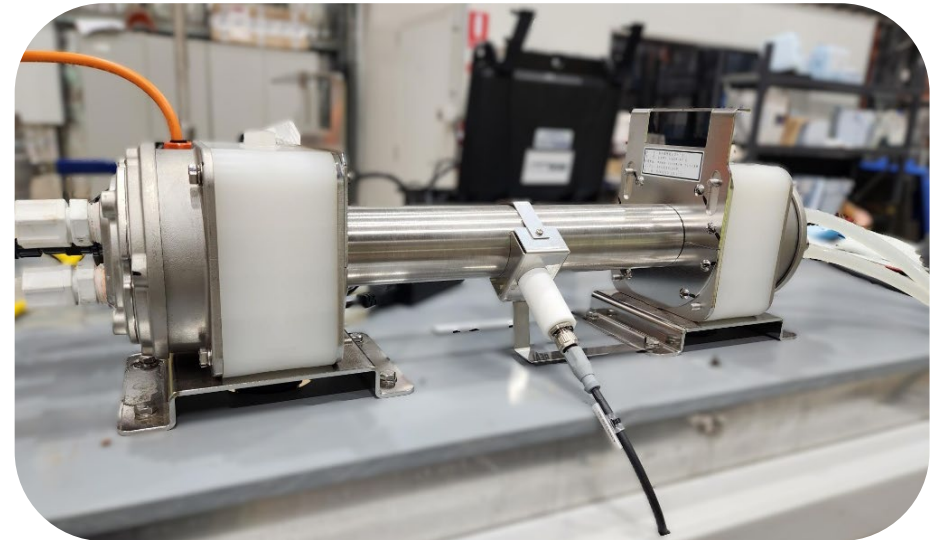
**Figure 6: Older style tap (left) and newly installed sample tap**

Water Corporation has played a leading role in establishing the Water Services Association of Australia's (WSAA) First Nations Clean Water and Sanitation Network, which had its inaugural meeting in July 2024. This network was formed to help advance water service standards in First Nations communities and serves as a platform for utilities to share ideas and learnings to address the unique challenges faced in delivering water and wastewater services to these communities.



**Figure 7: WSAA First Nations Clean Water and Sanitation Network**  
(Source WSAA)

We commenced three research and development projects, worth around \$3 million, that have received financial support from the National Water Grid Science Program (NWGSP), who are seeking to develop and evaluate water treatment technologies suitable for remote areas that have additional environmental challenges and resource limitations. One project is evaluating the effectiveness and suitability of ultraviolet light-emitting diodes (LEDs) for water disinfection in Aboriginal communities. The system developed for site trial is pictured below.



**Figure 8: Ultraviolet LED research and development project funded by the NWGSP**

## Where does your water come from

All communities, apart from Kalumburu, are supplied from local groundwater sources. Kalumburu is supplied by surface water from Kalumburu River. Due to the presence of elevated metals or inorganic chemicals in the reticulated

water supply, some communities receive bottled water to all or part of the community, or drinking water to one kitchen tap. Tables 1 and 3 to 5 show these communities.

**Table 1: Communities with an additional water supply**

| Region             | Community                 | Drinking water                                       |
|--------------------|---------------------------|------------------------------------------------------|
| Kimberley          | Kadjina <sup>1</sup>      | Bottled water - whole community                      |
| Kimberley          | Munthamar <sup>1</sup>    | Bottled water - whole community                      |
| Kimberley          | Bow River <sup>1</sup>    | Bottled water - children under 9 years               |
| Pilbara - Mid West | Burringurrah <sup>1</sup> | Bottled water - whole community                      |
| Pilbara - Mid West | Pia Wadjari <sup>1</sup>  | Bottled water - whole community                      |
| Pilbara - Mid West | Kiwirrkurra <sup>1</sup>  | Bottled water - whole community                      |
| Goldfields Central | Tjukurla <sup>1</sup>     | Bottled water - whole community                      |
| Goldfields Central | Mt Margaret               | Kitchen tap only (non drinking water all other taps) |
| Goldfields Central | Patjarr                   | Kitchen tap only (non drinking water all other taps) |
| Goldfields Central | Tjuntjuntjara             | Kitchen tap only (non drinking water all other taps) |

The five schemes that have been incorporated into larger, adjacent schemes are shown in table 2. Although the maintenance of the water assets in these communities is managed individually through the ACWS program, the water delivery, and therefore, the compliance monitoring is managed and reported through the adjacent scheme. For water quality data on schemes incorporated into an existing Water Corporation scheme, refer to the [Drinking Water Quality Annual Report](#) and those incorporated into another ACWS community, refer to the data tables for that community in Appendix C.

<sup>1</sup> These communities receive ongoing water quality advisories (refer to *Water quality advisories – ongoing*, page 29).

**Table 2: The '5' communities**

| Region             | Community    | Drinking water source                                        |
|--------------------|--------------|--------------------------------------------------------------|
| Kimberley          | Guda Guda    | Wyndham <sup>2</sup>                                         |
| Kimberley          | Karmulinunga | Derby <sup>2</sup>                                           |
| Kimberley          | Gilaroong    | Bayulu                                                       |
| Kimberley          | Girriyoowa   | Yiyili                                                       |
| Goldfields Central | Kurrawang    | Goldfields and Agricultural Water Supply Scheme <sup>2</sup> |

<sup>2</sup> Water Corporation existing scheme.

## Communities nearing or exceeding the infant health guideline – nitrate

Seventeen communities are provided bottled water to parents and carers of infants under 3 months of age for preparation of formula, as the water supplied to the community has the potential to exceed the ADWG health guideline for nitrate of 50 mg/L for infants under 3 months of age. The water at all these communities is safe to drink for adults, pregnant women, and children over 3 months of age (refer to *Understanding water quality test results – nitrate*, page 22). The bottled water is distributed by community health clinics, community stores or community leaders.

**Table 3: Kimberley communities above ADWG infant health guideline value**

|       |               |
|-------|---------------|
| Mulan | Pandanus Park |
|-------|---------------|

**Table 4: Pilbara and Mid West communities above ADWG infant health guideline value**

|            |              |            |
|------------|--------------|------------|
| Jigalong   | Kunawarritji | Kutkabubba |
| Wandanooka | Yulga Jinna  |            |

**Table 5: Goldfields Central communities above ADWG infant health guideline value**

|               |                |           |
|---------------|----------------|-----------|
| Blackstone    | Cosmo Newberry | Jameson   |
| Mt Margaret   | Mulga Queen    | Patjarr   |
| Tjuntjuntjara | Wanarn         | Warburton |
| Wingellina    |                |           |

A number of these communities have had treatment processes installed which reduce nitrate concentrations in the water supply scheme. To support infant health, bottled water will continue to be provided while long-term treatment performance is assessed.

There are an additional four ACWS communities that have nitrate consistently above the ADWG infant guideline value. However, they receive ongoing advisories for naturally occurring fluoride or uranium above the ADWG guideline value and receive bottled water for the whole community (refer to *Water quality advisories – ongoing*, page 29).

## Multiple barrier approach to drinking water quality management

Preventing contamination and minimising risk is an essential part of providing safe drinking water. The ADWG's guiding principle two states:

*"The drinking water system must have, and continuously maintain, robust multiple barriers appropriate to the level of potential contamination facing the raw water supply."*

This approach ensures that if one barrier fails, the effective operation of the other barriers will ensure safe drinking water is maintained throughout the water supply.

Barriers, applied from water source to water meter, are:

- Protected catchments and groundwater recharge areas.
- Ensuring tanks and bores are sealed to prevent contamination.
- Water treatment.
- Disinfection of water.
- A sealed distribution system and maintenance of chlorine residuals throughout the system.

### Water Safety Plans

A water safety plan is a comprehensive risk management document that lays out all scheme information pertinent to the safety of a drinking water scheme, including a detailed schematic of the system showing how it is operated, monitored, and controlled. We aim to complete a water safety plan for each community as we undertake detailed assessments on existing water assets.

### Source protection

Source protection is the protection and management of our drinking water catchments as part of a multiple barrier approach to providing safe drinking water to the community. Protecting drinking water at the source minimises the risk of contamination, reducing the level of treatment required before

supplying it to the community. Source water protection is a crucial step in ensuring safe, good quality drinking water.

Under the previous REMS program there were no formal areas of protection that were able to guide land management decisions to minimise or avoid potentially polluting land uses and activities close to the water supply. There was also an increased risk of contamination due to inadequate fencing around bores, which we are taking steps to improve.



**Figure 9: New fencing and bore headworks have reduced the risk of contamination at Jarlmadangah**

We are committed to work collaboratively with DWER to improve source protection within the ACWS communities and have commenced the development of a comprehensive source protection risk assessment. This assessment considers the risks nearby land uses and catchment activities pose to drinking water quality and will recommend measures to prevent drinking water contamination. These risk assessments have already been useful for prioritising improvement in the physical barriers to a number of groundwater sources in the ACWS program, long-term planning of new water sources and improved water quality monitoring.

## Tanks and bores

Through collaboration with the RSPs, engagement with communities and physical inspection by Water Corporation staff during asset condition assessments, it has been identified that some water infrastructure has not been maintained to a condition that provided adequate physical barriers against contamination, for example unsealed bores. Water Corporation has commenced a project to improve bore sealing in 131 bores in 58 communities over the next two years by replacing the bore headworks and bore pads. The condition of bore sealing is now regularly inspected and minor cracks will be repaired immediately by our RSPs.

Water Corporation has commenced detailed internal tank inspections and tank cleans using divers or robots to ensure tanks are clean and adequately sealed. In 2024-25, 34 tanks were cleaned and inspected.

Prior to taking on the Fitzroy 4, Water Corporation assisted in repairs and replacements of tanks and other assets damaged during the 2023 flooding event in the Fitzroy area.



**Figure 10: Fitzroy 4 community, Burawa elevated tank**



**Figure 11: Bore sealing improved with upgrades to headworks and using sealants where possible**

## Water treatment

The specific water quality of each source dictates the necessity of water treatment and the type of treatment required. Where water comes from groundwater supplied by fully protected catchment areas, very little treatment to manage microbiological safety of the water is required – often just disinfection. In cases, where there are microbiological and chemical risks due to incompatible land uses and where there may be naturally occurring minerals above the health guideline limits, more intensive treatment processes may be required to ensure the drinking water delivered to every house is safe. From a water safety perspective, water treatment is one of the possible barriers in a multiple barrier approach to the management of our water supplies.

### Filtration / Ultrafiltration

Ultra-filtration (UF) treatment is where source water is forced through a membrane. It is designed to remove suspended solids, bacteria, viruses, and other pathogens to produce water with very high purity.

### Reverse osmosis

In the ACWS water supply schemes, reverse osmosis (RO) is generally used to remove minerals and impurities from groundwater sources rather than seawater. In general, groundwater is passed through pre-treatment filtration to remove the majority of large and small particles before the filtered groundwater is forced under pressure through semipermeable membranes, which reverses the osmosis process as it occurs in nature. The pores in the

membranes are so small that salt, bacteria, viruses, and other impurities are separated from the source water. In essence, they act like microscopic strainers. About half of the water that enters the plant becomes drinking water.



**Figure 12: Kiwirrkurra ultra filtration and reverse osmosis treatment plant**

## Ion Exchange

At Yandeyarra, uranium exists in the groundwater as dissolved, electrically charged particles (ions) above the ADWG health guideline value. Ion exchange is used to reduce the concentration of uranium to below the health guideline value by passing the groundwater through a resin containing non-toxic, electrically charged particles. The uranium ions exchange with the non-toxic resin ions and are removed from the drinking water.



**Figure 13: Yandeyarra ion exchange**

## Disinfection

Disinfection is undertaken to inactivate pathogenic microorganisms, such as bacteria, viruses, or amoebae, that may be in the source water.

Chlorination is the preferred method of disinfection as, when sufficiently dosed, it will inactivate most microorganisms and leave a residual chlorine concentration in the distribution system which can provide ongoing protection.

Ultraviolet (UV) light is used for disinfection in some ACWS schemes. UV light will inactivate pathogenic microorganisms at the dose point. However, it does not have a residual effect, therefore provides no ongoing protection through the distribution system.

**Table 6: Communities with advanced water treatment**

| Region             | Community                  | Treatment    | Reason                                                                                                                                                   |
|--------------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kimberley          | Kalumburu                  | UF           | Remove larger particulates                                                                                                                               |
| Pilbara - Mid West | Kiwirrkurra                | UF and RO    | UF to remove larger particulates and RO to reduce fluoride and uranium                                                                                   |
| Pilbara - Mid West | Parnngurr                  | UF and RO    | UF to remove larger particulates and RO to reduce fluoride and uranium                                                                                   |
| Goldfields Central | Warburton                  | UF and RO    | UF to remove larger particulates and RO to reduce nitrates                                                                                               |
| Goldfields Central | Mt Margaret <sup>1</sup>   | RO           | Reduce nitrates in a secondary supply system going directly and only to a drinking water kitchen tap                                                     |
| Goldfields Central | Patjarr <sup>1</sup>       | RO           | Reduce nitrates in a secondary supply system going directly and only to a drinking water kitchen tap                                                     |
| Goldfields Central | Tjuntjuntjara <sup>2</sup> | RO           | Treat brackish (saline) groundwater and reduce uranium in the primary supply system which connects to all taps apart from the drinking water kitchen tap |
| Goldfields Central | Cosmo Newberry             | RO           | Reduce nitrates                                                                                                                                          |
| Goldfields Central | Jameson                    | RO           | Reduce nitrates                                                                                                                                          |
| Pilbara - Mid West | Jigalong                   | RO           | Reduce nitrates                                                                                                                                          |
| Pilbara - Mid West | Karalundi                  | RO           | Reduce nitrates                                                                                                                                          |
| Pilbara - Mid West | Barrel Well                | RO           | Treat brackish (saline) groundwater                                                                                                                      |
| Pilbara - Mid West | Yandeyarra                 | Ion exchange | Remove uranium ions                                                                                                                                      |

<sup>1</sup> Dual reticulation system supplies this community. RO (drinking) water is supplied to a tap in the kitchen. Water supplied to all other taps is not intended for drinking.

<sup>2</sup> Dual reticulation system supplies this community. RO (non-drinking) water is supplied to all taps apart from the drinking water kitchen tap. The RO water is not intended for drinking. A drinking water kitchen tap is supplied from a separate borefield that meets ADWG health requirements.

## Understanding water quality test results

Water quality testing was transitioned from the laboratory contracts in place at transfer to Water Corporation contracted laboratories for Goldfields and Pilbara during the first half of 2025. Kimberley will transition in August 2025.

The following summaries are intended to assist with interpreting the results presented in Appendix C of this report. Health-related parameters are presented first, followed by aesthetic parameters. Additional information can be obtained by referring to the Fact Sheets contained in the ADWG.

Appendix B contains a list of regularly sampled parameters within functional groups, and their respective health and/or aesthetic guideline values.<sup>1</sup> For the purposes of this report, all data are assessed in relation to the ADWG unless otherwise stated in Appendix B.

### ***Escherichia coli (E. coli)***

Most human pathogenic microorganisms are found in the gut and faeces of humans and other warm-blooded animals. The bacteria *E. coli* is found in abundance in the intestine of humans and other warm-blooded animals. While most *E. coli* species are not pathogenic to humans, they indicate possible recent contamination by human or animal faecal waste. As it is impractical to test for the presence of all pathogenic microorganisms in water, the ADWG recommends testing for the microbial indicator bacterium *E. coli* to indicate the presence of faecal contamination or pathogenic organisms.

We are working towards implementing a multiple barrier approach in ACWS water supplies (refer to *Multiple barrier approach to drinking water quality management*, page 16) to prevent microbial contamination of water supplies. However, if there is an *E. coli* detection, it is immediately addressed to ensure the water supplied is safe.

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<sup>1</sup> ADWG defines these as the concentration or measure of a water quality characteristic that, based on present knowledge, either does not result in any

### **Thermophilic *Naegleria***

*Naegleria* are free living amoebae which are almost ubiquitous, being found in fresh water, soils, and sediments. They are not associated with human waste. They grow more freely in waters between 27 and 46°C but may survive for long periods in cyst form in much colder waters and, under certain conditions, may proliferate in pipework and tanks. As they proliferate in warmer water they are referred to as thermophilic or *Naegleria* tolerant to 42°C. This organism is safe to drink but the species *Naegleria fowleri* can cause the disease primary amoebic meningoencephalitis if it enters the body, under pressure, through the nose. Adequate levels of chlorine can control *Naegleria* in water. While compliance is measured by the detection of *Naegleria fowleri*, any detection of thermophilic *Naegleria* is responded to immediately to ensure the potential risk to public health is managed and to ensure the water supplied is safe.

### ***Burkholderia pseudomallei***

*Burkholderia pseudomallei*, a bacterium which can cause the disease melioidosis, is commonly found in soil and muddy water in tropical regions and can survive for prolonged periods. Melioidosis is endemic in northern Australia and, although generally a tropical illness, it has been detected in the southwest of Western Australia. Infection usually results from contact with soil or surface-accumulated water (muddy water). Most infection appears to be through skin cuts or abrasions. However, infection may also occur via other routes, particularly through inhalation or ingestion. Exposure to environmental *Burkholderia pseudomallei* after heavy rainfall presents the greatest risk, however there is also a risk of exposure through inadequately treated potable water. Maintaining an adequate chlorine residual and sealing

significant risk to the health of the consumer (health guideline), or is associated with good quality water (aesthetic guideline value).

the distribution system should eliminate the risk of *Burkholderia pseudomallei* in the water supply.

## Fluoride

Fluorine is one of the most abundant elements in the Earth's crust and is typically found as the fluoride ion or as organic or inorganic fluoride compounds. It is found naturally in groundwater supplies and is present in most food and beverage products and toothpaste. Fluoride is added to the water supplies of many cities and towns across the world. In Western Australia, fluoridation of community water supplies is regulated by the *Fluoridation of Public Water Supplies Act 1966*, which is administered by DoH. The Fluoridation of Public Water Supplies Advisory Committee oversees fluoridation and makes recommendations to the Minister for Health who may issue or rescind directives as appropriate. No water supply in the ACWS currently has a directive to provide fluoridation. The ADWG health guideline value is 1.5 mg/L. There are three ACWS communities that have naturally occurring fluoride above the ADWG guidelines. These communities are provided bottled water, for the whole community or children under 9 years of age, for drinking and cooking purposes (refer to *Water quality advisories – ongoing*, page 29).

## Nitrate

In Western Australia, elevated nitrate concentrations are usually due to the natural process of plant decay that has occurred underground over geological time. Some agricultural practices have also led to elevated nitrate concentrations of underlying groundwater. The ADWG specify a health guideline for nitrate of 50 mg/L (as nitrate) for formula-fed infants less than three months old and a guideline of 100 mg/L (as nitrate) for adults and children over 3 months old. Health effects due to elevated nitrate concentrations in drinking water are very rare and no issues have been recorded in Western Australia.

Four communities with elevated nitrates also have elevated fluoride or uranium. These communities have ongoing water quality advisories (refer to

*Water quality advisories – ongoing*, page 29) and receive bottled water to the entire community for drinking and food preparation.

There are 17 other communities that have the potential to exceed the infant guideline value for nitrate (refer to *Communities nearing or exceeding the infant health guideline level – nitrate*, page 15). This water does not exceed the adult health guideline value and is safe to drink for adults, pregnant women, and children over 3 months of age. Water Corporation provides bottled water for preparation of formula for infants under 3 months of age. The bottled water is distributed by community health clinics, community stores, or community leaders.

## Radium-226 and 228

Radium is a naturally occurring radioactive element that is present in varying amounts in rock and soils in the earth's crust. It is formed when uranium and thorium, both abundant in Australia, undergo radioactive decay producing isotopes, of which radium-226 and 228 are the two most significant in terms of radiological health. Radium-226 and 228 have half-lives of 1600 and 5.75 years respectively.

In drinking water supplies derived from groundwater sources, radium-226 and radium-228 concentrations vary considerably depending on the mineralogy of the aquifer and the chemical and physical processes occurring during its movement within the aquifer.

The radiological activities of these two isotopes are used to calculate the Annual Radiation Dose (ARD) of the drinking water supply. The ADWG specifies that if the ARD from drinking water exceeds the reference value of 1 millisieverts per year (mSv/year) then water supply providers and the relevant regulatory authority should assess results and examine options to reduce the levels of exposure.

Australia has adopted an operational dose level of 0.3 mSv/year. If the ARD from a drinking water exceeds the operational dose value, then routine monitoring may be increased.

## Trihalomethanes

Trihalomethanes (THMs) may be present in drinking water, forming as a by-product of disinfection using chlorination. We are required to comply with the ADWG health guideline of 0.25 mg/L expressed as an average long-term exposure. For the purposes of this report, THM compliance is assessed comparing the guideline with the mean annual THM concentration. In agreement with Department of Health, THMs are monitored in two ACWS communities that have an elevated risk of formation of disinfection by-products due to the presence of naturally occurring dissolved organic matter in the source water. These communities are Kalumburu in the Kimberley Region and Innawonga in the Pilbara Region.

## Uranium

Uranium is a heavy metal which occurs in most rocks, soils, and water. It is almost always found combined with other elements and is as common in the earth's crust as tin or about 40 times more abundant than silver. Australia has about 28 per cent of the world's recoverable uranium reserves.

Australian drinking water supply concentrations are generally less than 0.002 mg/L but have been recorded up to 0.12 mg/L in some remote areas (ADWG 2011). The ADWG health guideline value is 0.02 mg/L, based on its chemical toxicity, which is more limiting than its radiological toxicity.

There are two ACWS communities that have naturally occurring uranium above the ADWG guidelines. These communities are provided bottled water for drinking and cooking purposes (refer to *Water quality advisories – ongoing*, page 29).

## Alkalinity (as calcium carbonate)

Alkalinity is a measure of the parameters in water that have acid-neutralising ability, typically expressed in mg/L of equivalent calcium carbonate. Alkalinity can be affected by naturally occurring minerals or water treatment chemicals. Sufficient alkalinity, in conjunction with other parameters, is important to managing the corrosivity of water. There are no aesthetic or health

considerations for alkalinity, therefore the ADWG do not provide a guideline value.

## Aluminium (acid-soluble)

Acid-soluble aluminium in water primarily originates from the addition of coagulants such as aluminium sulphate or poly-aluminium chloride in the water treatment process. These coagulants are added to aid the removal of constituents that impart colour and particulate matter that causes turbidity. Aluminium can accumulate in pipe sediments and be re-suspended during periods of rapid changes to flow patterns. The ADWG specify an aesthetic guideline of 0.2 mg/L. No health guideline is set.

## Chloride

Chloride is present in natural waters from the dissolution of salt deposits. In surface water, the concentration of chloride is typically less than 100 mg/L while groundwater can have higher concentrations, particularly if there is saltwater intrusion. In Australian drinking water supplies, chloride levels range up to 650 mg/L depending on local water source characteristics.

Chloride is essential for humans and animals. It contributes to the osmotic activity of body fluids. Based on aesthetic considerations, the chloride concentration in drinking water should not exceed 250 mg/L (ADWG).

## Hardness (as calcium carbonate)

Hardness is caused by the presence of dissolved calcium and magnesium in water. Hard water requires more soap to obtain lather and can also cause scale to form on hot water pipes and fittings. It can also be an important issue to consider when purchasing appliances, such as dishwashers. The ADWG specify an aesthetic hardness guideline of 200 mg/L.

**Table 7: ADWG guidance – Degrees of hardness**

| Hardness (mg/L) | Properties                                                                                  |
|-----------------|---------------------------------------------------------------------------------------------|
| < 60            | Soft and possibly corrosive (depends on pH, alkalinity, and dissolved oxygen concentration) |
| 60 – 200        | Good quality for all domestic uses                                                          |
| 200 – 500       | Will increase scale formation                                                               |
| > 500           | Will cause a high-level scaling                                                             |

## Iron

Iron occurs naturally in water from contact with iron-containing soil or rock in the catchment. It can accumulate in pipe sediments and be re-suspended during periods of rapid changes to water flow patterns. Elevated concentrations cause discoloured water and can stain laundry. The ADWG specify an aesthetic guideline of 0.3 mg/L, though we aim to manage below this guideline value due to customer impacts.

## Manganese

Manganese in water can come from contact with manganese-containing soil or rock in the catchment. It can accumulate in pipe sediments and be re-suspended during periods of rapid changes to water flow patterns.

Elevated manganese can make water look black and stain laundry. The ADWG specify an aesthetic guideline of 0.1 mg/L, though we aim to manage below this guideline due to customer impacts. Manganese also has a health guideline value of 0.5mg/L. For further information regarding guideline levels for other metals relevant to drinking water, refer to *Appendix B – List of sampling parameters*, page 34.

## pH

pH is a measure of water acidity (pH 7 is neutral). The ADWG specify a lower and upper aesthetic value of 6.5 and 8.5, respectively, based on the need to reduce corrosion and scale build-up within pipes and fittings. The guidelines allow for a pH of up to 9.2 for new concrete tanks and cement-lined pipes,

which can significantly increase the pH for a short period of time. Elevated pH is often caused by calcium carbonate leaching from the protective cement lining of the pipes after long transit times. Where low pH is experienced, it is typically a consequence of the source characteristic rather than the influence of treatment. However, in three communities low pH is a result of RO treatment.

## Silica

In Australia, dissolved silica (SiO<sub>2</sub>) can range between 0.6 mg/L in some surface waters to 110 mg/L in ground waters. Dissolved silica can precipitate on some surfaces forming a white residue. In cases where customer complaints occur due to scale build-up, water hardness and silica concentrations are often identified as the primary cause. There are no adverse health considerations associated with silica in drinking water, but to minimise scale build-up on surfaces silica should not exceed 80 mg/L (ADWG).

## Sodium

Sodium is widespread in water due to the high solubility of sodium salts and the abundance of mineral deposits. In major Australian reticulated supplies, sodium concentrations range from 3 mg/L to 300 mg/L. While sodium is essential to human life, there is no agreed minimum daily intake level. Based on aesthetic considerations, the concentration of sodium in drinking water should not exceed 180 mg/L (ADWG).

## Sulfate

The presence of sulfate in groundwater is due to natural leaching from sulfate containing rocks. The taste threshold for sulfate is 250-500 mg/L. and the ADWG specify an aesthetic guideline of 250 mg/L, though we aim to manage below this guideline to prevent customer impacts. While there is no health guideline value listed in the ADWG, sulfate concentrations above 500 mg/L can have a purgative effect.

## Total Dissolved Solids

Total dissolved solids (TDS) is the mass of all filterable substances in water and comprises of salts, such as calcium, magnesium, potassium, sodium bicarbonates, chlorides, and sulphates, as well as small amounts of organic matter that dissolve in water.

Water with low TDS can taste flat, while water with high TDS tastes salty and may cause scaling in pipes, fittings, and household appliances. The ADWG provide guidance on the palatability of drinking water according to TDS concentration, as shown in Table 8.

**Table 8: ADWG guidance – TDS concentration and drinking water palatability** *(The ADWG guideline of 600 mg/L is based on taste).*

| TDS (mg/L) | Palatability |
|------------|--------------|
| 0 – 600    | Good quality |
| 600 – 900  | Fair quality |
| 900 – 1200 | Poor quality |
| > 1200     | Unpalatable  |

## True colour

Colour in water originates mainly from natural materials, such as organic matter and minerals, following water drainage through soil and vegetation in a catchment. Corroding metal pipes can also discolour the water, with iron producing a brownish colour and copper a faint blue colour. The ADWG specify an aesthetic guideline of 15 Hazen Units. Water Corporation measures true colour in True Colour Units (TCU) which are numerically identical to Hazen Units. As a guide, 15 TCU is just noticeable in a glass of water.

## Turbidity

Turbidity is the cloudy appearance of water caused by the presence of suspended particulate matter. The ADWG specify an aesthetic guideline of 5 Nephelometric Turbidity Units (NTU) which is just noticeable in a glass of water. There are three ACWS communities that have elevated turbidity due to iron and manganese in the source that may interfere with the effectiveness of disinfection and therefore, receive ongoing water quality advisories (refer to *Water quality advisories – ongoing*, page 29).

## Monitoring, incident management and drinking water quality performance

### Compliance monitoring

Water quality test results for the 88 are summarised and compared to the ADWG health and aesthetic guideline values, in Appendix C. Communities with non-drinking water provisions are shown in separate tables.

### Verification monitoring

Water Corporation ran an extensive drinking water quality monitoring program to confirm the safety of the water provided. In 2024-25, more than 7984 water samples were taken from water sources, treatment plants, and pipe networks which supply our Aboriginal communities. Tests were performed by our contracted analytical laboratories. Compliance monitoring for the 88 are shown in the tables in Appendix C.

### Water quality incidents

Water Corporation is working towards implementing a multiple barrier approach to managing risk (refer to *Multiple barrier approach to drinking water quality management*, page 16), which provides fail-safes to prevent potentially unsafe drinking water reaching our customers. If a barrier to an acute health risk fails, it will initiate an incident response to rapidly address the failure, and a public water advisory may also be issued. Learnings from all incidents are used to reduce the likelihood of a recurrence of similar issues across all schemes.

### Water quality advisories

A public water quality advisory is an announcement advising customers that the drinking water supply may not be safe and recommended actions to take.

Water Corporation may issue a water quality advisory, in consultation with DoH, after a detection of a parameter of health concern or the occurrence of an event that could cause an impact to public health which Water Corporation and the RSP are unable to mitigate immediately. Water Corporation will issue the advisory when the problem has been identified. The advisory will be lifted, in consultation with DoH, once all operational actions have been completed to repair any faults or institute additional mitigating barriers, any potentially contaminated water has been flushed from the water supply system, and the water is proven to be safe.

Advisories are issued to key community contacts, Aboriginal Health Services, local councils, schools, and/or health clinics. The advisory will describe what actions community members are recommended to undertake to ensure they are safe. Actions can include, but are not limited to:

- Boil water prior to use.
- Avoid getting water up the nose.
- Cover open wounds when bathing.
- Not to use water for drinking or food preparation.
- Not to use water for preparation of formula for infants under 3 months of age.

19<sup>th</sup> AUGUST 2024 – GALERU GORGE

**WATER ALERT**



**AVOID WATER UP NOSE**

**WATER IS SAFE TO DRINK**



- DO NOT allow water to go up your nose when playing, showering or bathing
- DO NOT allow children to play unsupervised with hoses or sprinklers

For further information  
 ☎ 0439 185 283  
 ✉ [ACWSWQTeam@watercorporation.com.au](mailto:ACWSWQTeam@watercorporation.com.au)

 **WATER**  
CORPORATION

28 OCTOBER 2024 KUNDAT DJARU

**WATER ALERT**




**BOIL ALL WATER**

**AVOID WATER UP NOSE**



- DO boil water for at least 1 minute, allow to cool and use for drinking, bathing, washing dishes, brushing teeth and food preparation
- DO NOT allow water to go up your nose when playing, showering or bathing
- DO NOT allow children to play unsupervised with hoses or sprinklers

For further information  
 ☎ 0439 185 283  
 ✉ [ACWSWQTeam@watercorporation.com.au](mailto:ACWSWQTeam@watercorporation.com.au)

 **WATER**  
CORPORATION

Figure 14: Examples of Water Quality Advisories

### Water quality advisories – temporary

The following communities received temporary advisories due to detections of potentially pathogenic microorganisms:

**Table 9: Temporary advisories due to detections of potentially pathogenic microorganisms**

| Region             | Community    | Advisory type                           | Date       |
|--------------------|--------------|-----------------------------------------|------------|
| Kimberley          | Galeru Gorge | Thermophilic <i>Naegleria</i> (No play) | 19/08/2024 |
| Kimberley          | Ganinyi      | Thermophilic <i>Naegleria</i> (No play) | 17/09/2024 |
| Kimberley          | Budgarjook   | <i>E. coli</i> (Boil water / no play)   | 2/12/2024  |
| Pilbara - Mid West | Kutkabubba   | Thermophilic <i>Naegleria</i> (No play) | 6/12/2024  |

Water Corporation and the RSPs undertook corrective actions to ensure any potentially contaminated water was removed from the water supply systems and that sufficient barriers were in place to deactivate pathogenic microorganisms. These advisories were rescinded after response samples taken from the water supply systems were free from detections. Examples of these advisories are shown in Figure 14.

Due to improved efficiencies in analytical techniques at the laboratory, the species of *Naegleria* may be determined shortly after the initial detection of Thermophilic *Naegleria*. If the laboratory confirms it is not the pathogenic species, *Naegleria fowleri*, a temporary public advisory is not required. However, all other response protocols are implemented in accordance with DoH requirements.

The following communities received temporary advisories due to treatment failures or other events that compromised the disinfection of the water supply systems:

**Table 10: Temporary advisories due to events of public health significance**

| Region             | Community      | Advisory type                                       | Date       |
|--------------------|----------------|-----------------------------------------------------|------------|
| Pilbara - Mid West | Pia Wadjari    | Primary Chlorination Failure (Boil water / no play) | 1/07/2024  |
| Kimberley          | Kundat Djaru   | Use of emergency bore (Boil water / no play)        | 28/10/2024 |
| Goldfields Central | Cosmo Newberry | Treatment plant failure (Do not drink)              | 10/02/2025 |
| Kimberley          | Joy Springs    | Primary Chlorination Failure (Boil water / no play) | 17/02/2025 |

Water Corporation and the RSPs undertook corrective actions to ensure any potentially contaminated water was removed from the water supply systems and restore the barriers to deactivate pathogenic microorganisms. These advisories were rescinded after the corrective actions were completed and barriers confirmed to be operating as intended.

## Water quality advisories – ongoing

The following communities receive ongoing advisories due to elevated concentrations of health-related parameters that occur naturally in the source water, or elevated turbidity from iron and manganese in the source water, which can interfere with disinfection of the water supply.

**Table 11: Ongoing advisories due to elevated metals or inorganic chemicals**

| Region             | Community    | Parameter            |
|--------------------|--------------|----------------------|
| Kimberley          | Bow River    | Fluoride             |
| Pilbara - Mid West | Burringurrah | Uranium and nitrate  |
| Pilbara - Mid West | Kiwirrkurra  | Fluoride and nitrate |
| Pilbara - Mid West | Pia Wadjari  | Uranium and nitrate  |
| Goldfields Central | Tjukurla     | Fluoride and nitrate |

Water Corporation provides bottled water to all community members, except Bow River where it is supplied to children under 9 years of age, for drinking and food preparation until a new source can be identified or a treatment process is installed. Nitrate in these community water supplies, except Bow

River, exceed infant health guideline value. Refer to *Understanding water quality test results*, page 21, for more information.

Following the proving of reverse osmosis treatment in Kiwirrkurra, we aim to lift the ongoing fluoride and nitrate advisories in 2026 (refer to *Improving drinking water quality*, page 11).

**Table 12: Ongoing advisories due to elevated turbidity**

| Region    | Community | Parameter |
|-----------|-----------|-----------|
| Kimberley | Dodnun    | Turbidity |
| Kimberley | Kadjina   | Turbidity |
| Kimberley | Munthamar | Turbidity |

Water Corporation advises community members to boil all water prior to drinking and food preparation and avoid getting water up the nose. Water Corporation also provides bottled water to all community members in Kadjina and Munthanmar for drinking and food preparation.

Planning is being undertaken for improvement initiatives to these communities and will be implemented across the 10-year program.

## Appendix A - Maps of ACWS regions

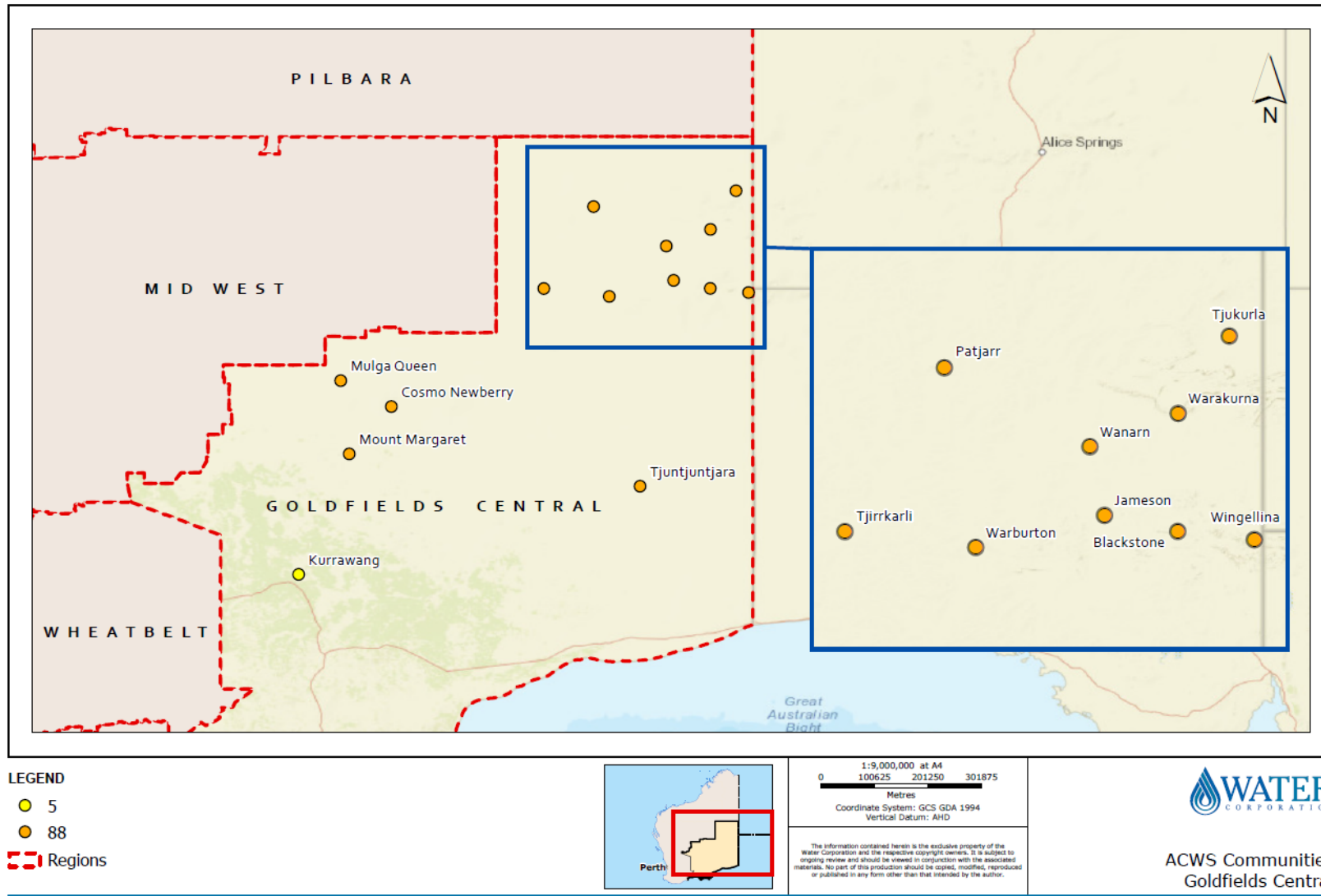


Figure 15: ACWS – Goldfields Central

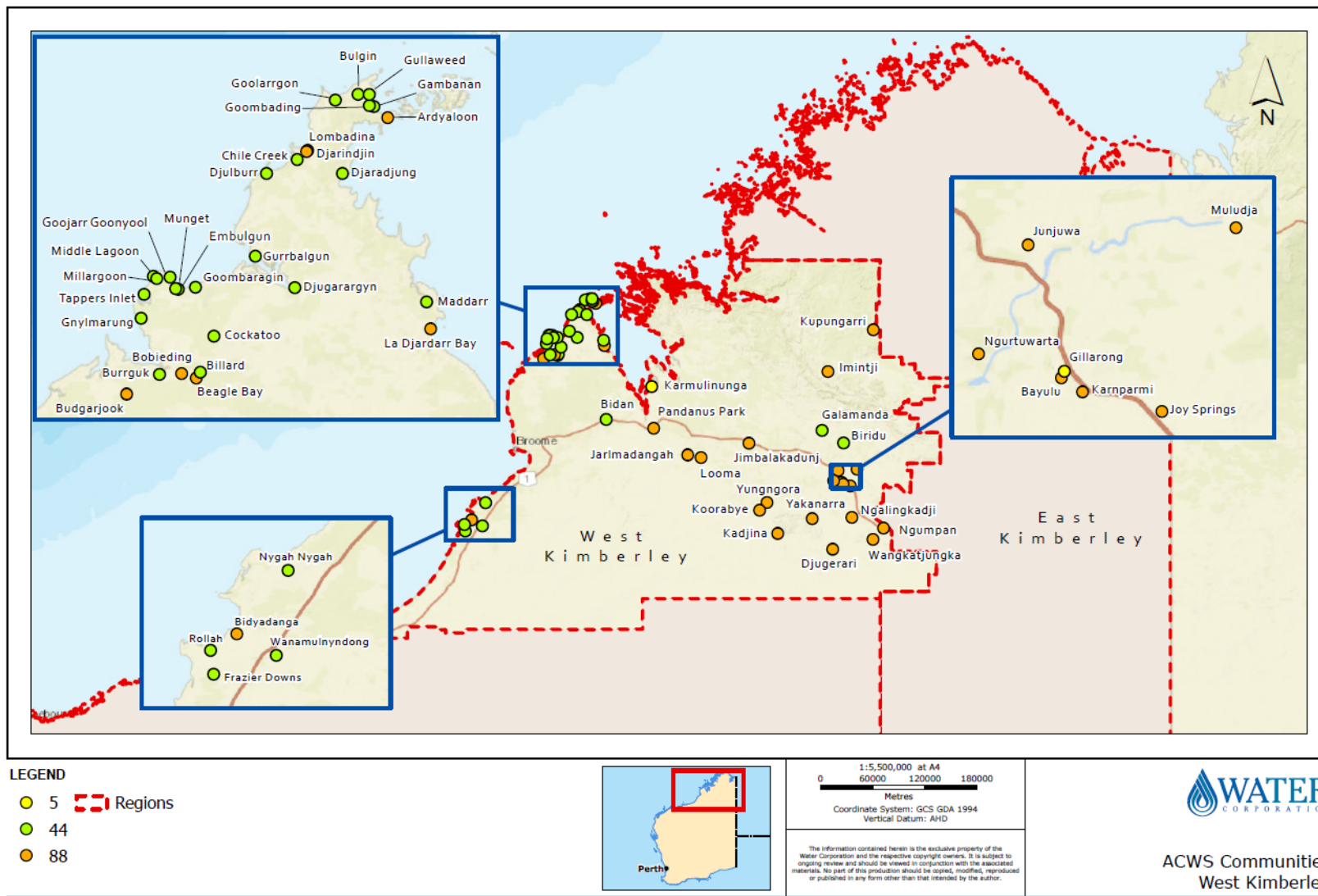


Figure 16: ACWS – Kimberley - West

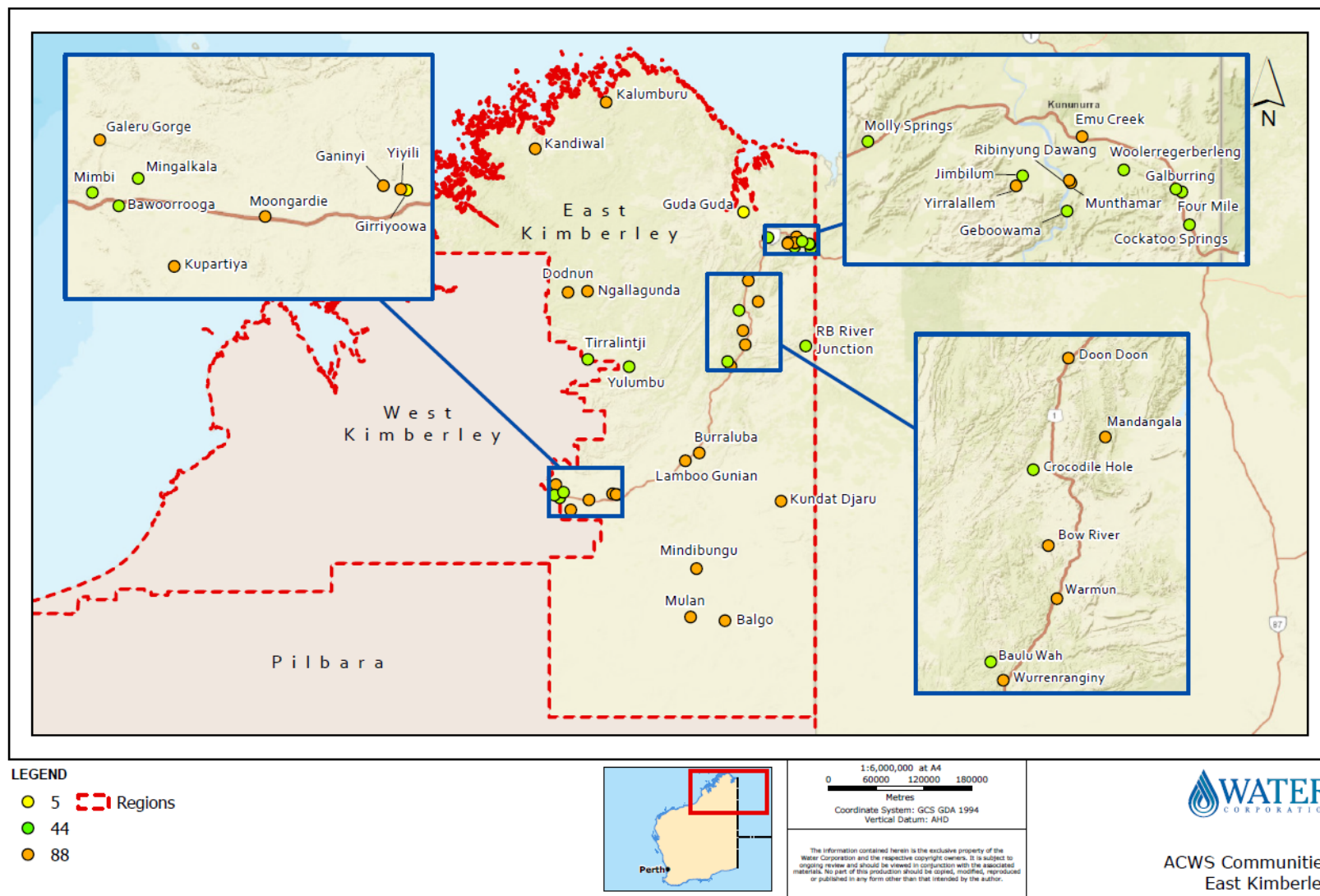


Figure 17: ACWS – Kimberley - East

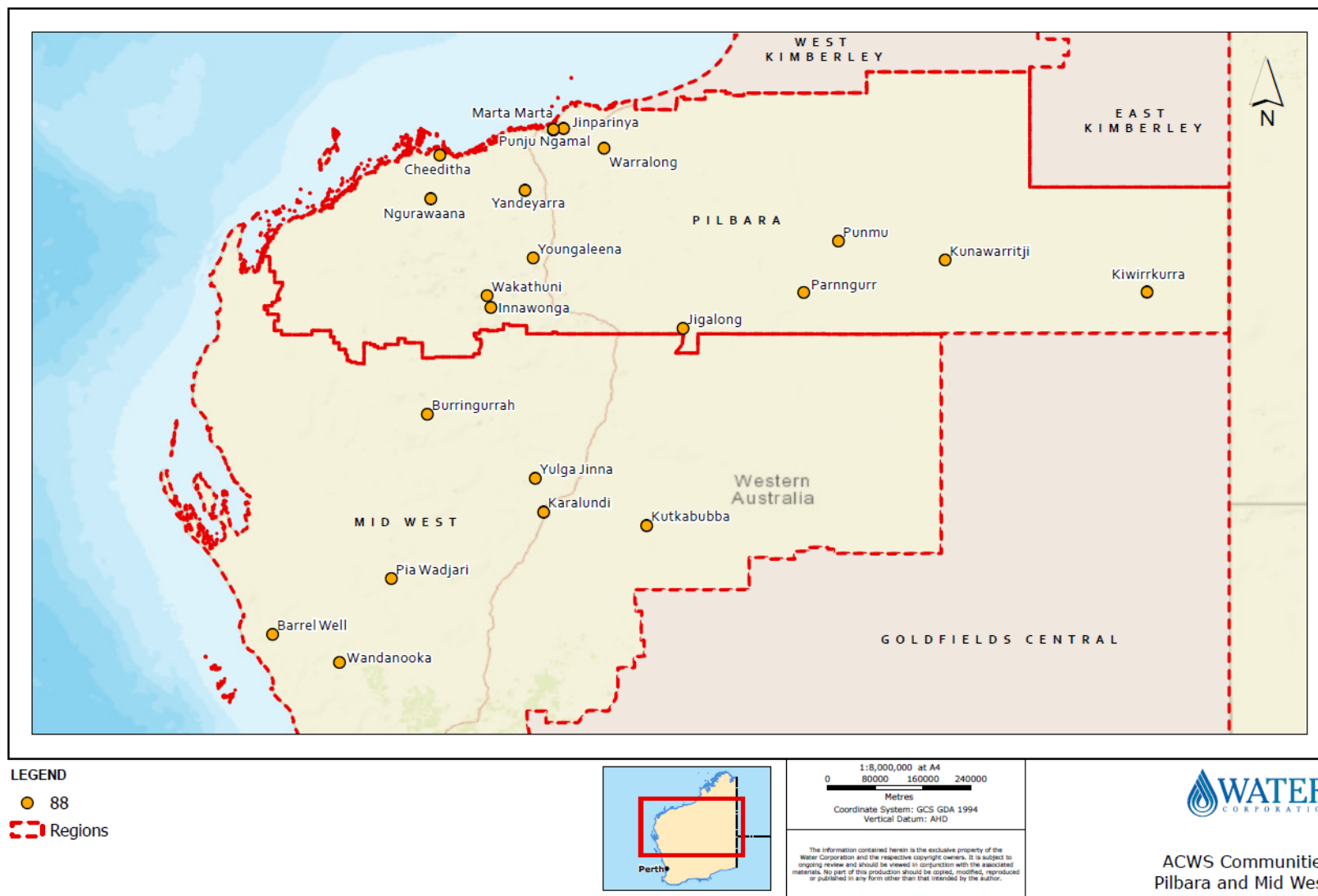


Figure 18: ACWS – Pilbara and Mid West

## Appendix B – List of sampling parameters

**Table 13: Sampling parameters – microbiological**

| Organism                                               | Health Guideline Value                                                   |
|--------------------------------------------------------|--------------------------------------------------------------------------|
| <i>Escherichia coli</i>                                | 0 organisms per 100 ml                                                   |
| <i>Naegleria</i> tolerant to $\leq 42^{\circ}\text{C}$ | No sample should contain <i>Naegleria fowleri</i> <sup>[1]</sup>         |
| <i>Burkholderia Pseudomallei</i>                       | No sample should contain <i>Burkholderia Pseudomallei</i> <sup>[2]</sup> |

Notes:

<sup>[1]</sup> Guideline set by DoH in Schedule 1 of the MoU - ADWG has not set a guideline value for this organism.

<sup>[2]</sup> Guideline as directed by DoH. Sampling only required in Kimberley communities where chlorine residual is not maintained.

**Table 14: Sampling parameters – radiological**

| Parameter              | Reference Value                     |
|------------------------|-------------------------------------|
| Radium 226 & 228 (ARD) | 1.0 mSv/yr (millisieverts per year) |

Note:

As per ADWG, those communities with ARD rates below the operational guideline of 0.3 mSv/year require routine monitoring every two years for groundwater supplies and five years for surface water supplies. Those communities above the operational guideline may need more frequent monitoring.

**Table 15: Sampling parameters – metals**

| Metal                                             | Health Guideline Value (mg/L) | Aesthetic Guideline Value (mg/L) |
|---------------------------------------------------|-------------------------------|----------------------------------|
| Aluminium (acid soluble aluminium) <sup>[4]</sup> | Not set                       | 0.2                              |
| Antimony <sup>[3]</sup>                           | 0.003                         | Not set                          |
| Arsenic <sup>[3]</sup>                            | 0.01                          | Not set                          |
| Barium <sup>[3]</sup>                             | 2                             | Not set                          |
| Beryllium <sup>[3]</sup>                          | 0.06                          | Not set                          |
| Boron <sup>[3]</sup>                              | 4                             | Not set                          |
| Cadmium <sup>[3]</sup>                            | 0.002                         | Not set                          |
| Chromium (as Cr[VI]) <sup>[3]</sup>               | 0.05                          | Not set                          |
| Copper <sup>[3]</sup>                             | 2                             | 1                                |
| Iron <sup>[4]</sup>                               | Not set                       | 0.3                              |
| Lead <sup>[3]</sup>                               | 0.01                          | Not set                          |
| Manganese <sup>[4]</sup>                          | 0.5                           | 0.1                              |
| Mercury <sup>[3]</sup>                            | 0.001                         | Not set                          |
| Molybdenum <sup>[3]</sup>                         | 0.05                          | Not set                          |
| Nickel <sup>[3]</sup>                             | 0.02                          | Not set                          |
| Selenium <sup>[3]</sup>                           | 0.01                          | Not set                          |
| Silver <sup>[3]</sup>                             | 0.1                           | Not set                          |
| Uranium <sup>[4]</sup>                            | 0.017                         | Not set                          |
| Zinc <sup>[3]</sup>                               | Not set                       | 3                                |

Notes:

<sup>[3]</sup> These metals are shown as a group in the 'Metals' column of the summary of water quality test results (refer to *Appendix C*)

<sup>[4]</sup> Aluminium, iron, manganese, and uranium are individually listed in the summary of test results tables.

Results should not exceed the health guideline value.

**Table 16: Sampling parameters - organic compounds**

| Compound                             | Health Guideline Value (µg/L) | Aesthetic Guideline Value (µg/L) |
|--------------------------------------|-------------------------------|----------------------------------|
| Total Trihalomethanes <sup>[5]</sup> | 250 <sup>[6]</sup>            | Not set                          |

Notes:

<sup>[5]</sup> In agreement with DoH, no sampling is currently required if the THM formation risk is low.

<sup>[6]</sup> shown in mg/L in the tables

µg/L = micrograms per litre; 1000 µg = 1 milligram (mg).

Results should not exceed the health guideline value.

**Table 17: Sampling parameters – inorganic chemicals**

| Chemical                                     | Health Guideline Value (mg/L) | Aesthetic Guideline Value (mg/L) |
|----------------------------------------------|-------------------------------|----------------------------------|
| Chloride                                     | Not set                       | 250                              |
| Fluoride                                     | 1.5                           | Not set                          |
| Nitrate (as NO <sub>3</sub> ) <sup>[7]</sup> | 50                            | Not set                          |
| Silica                                       | Not set                       | 80                               |
| Sodium                                       | Not set                       | 180                              |
| Sulfate                                      | Not set                       | 250                              |

Notes:

<sup>[7]</sup> Nitrate health guideline is for bottle-fed infants < 3 months of age. The health guideline for adults and children > 3 months is 100 mg/L.

Results should not exceed the health guideline value.

**Table 18: Sampling parameters – physical characteristics**

| Characteristics               | Health Guideline Value | Aesthetic Guideline Value |
|-------------------------------|------------------------|---------------------------|
| Alkalinity                    | Not set                | Not set                   |
| Hardness as CaCO <sub>3</sub> | Not set                | 200 mg/L                  |
| pH                            | Not set                | 6.5 – 8.5                 |
| Total dissolved solids        | Not set                | 600 mg/L                  |
| True colour                   | Not set                | 15 TCU                    |
| Turbidity                     | Not set                | 5 NTU                     |

Notes:

TCU = True colour units.

NTU = Nephelometric turbidity units.

## **Appendix C – Summary of water quality test results**

### **Kimberley**

Health-related Tables 1 and 2

Aesthetic Tables 3, 4 and 5

Non-drinking water supplied – Health-related Tables 6 and 7

Non-drinking water supplied – Aesthetic Tables 8, 9 and 10

### **Pilbara and Mid West**

Health-related Tables 11 and 12

Aesthetic Tables 13, 14 and 15

Non-drinking water supplied – Health-related Tables 16 and 17

Non-drinking water supplied – Aesthetic Tables 18, 19 and 20

### **Goldfields Central**

Health-related Tables 21 and 22

Aesthetic Tables 23, 24 and 25

Non-drinking water supplied – Health-related Tables 26 and 27

Non-drinking water supplied – Aesthetic Tables 28, 29 and 30

Kimberley communities receiving additional water for drinking and food preparation for the whole community are:

- Kadjina – bottled water for elevated turbidity and also manganese above the ADWG health guideline value.
- Munthamar – bottled water for elevated turbidity.

Refer to tables 6 – 10 for their reticulated non-drinking water quality.

**Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025**

|               | Table 1 Health related variables |                      |               |                 |                                  |                                               |                 |                               |                                            |                 |               |                      |      |      |               |               |               |
|---------------|----------------------------------|----------------------|---------------|-----------------|----------------------------------|-----------------------------------------------|-----------------|-------------------------------|--------------------------------------------|-----------------|---------------|----------------------|------|------|---------------|---------------|---------------|
| AC Kimberley  | <i>E. coli</i>                   |                      |               |                 | <i>Burkholderia pseudomallei</i> |                                               |                 | Thermophilic <i>Naegleria</i> |                                            |                 | Fluoride      |                      |      |      | Metals        |               |               |
| Community     | Samples taken                    | Samples >0 cfu/100mL | Max cfu/100mL | Requirement met | Samples taken                    | Number of samples with <i>B. pseudomallei</i> | Requirement met | Samples taken                 | Samples with Thermophilic <i>Naegleria</i> | Requirement met | Samples taken | Concentration (mg/L) |      |      | Guideline met | Samples taken | Guideline met |
|               |                                  |                      |               |                 |                                  |                                               |                 |                               |                                            |                 |               | Min                  | Max  | Mean |               |               |               |
| Ardyaloon     | 23                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 23                            | 0                                          | ✓               | 2             | 0.2                  | 0.3  | 0.25 | ✓             | 2             | ✓             |
| Balgo         | 24                               | 0                    | 0             | ✓               | 1                                | 0                                             | ✓               | 24                            | 0                                          | ✓               | 1             | 0.8                  | 0.8  | 0.8  | ✓             | 1             | ✓             |
| Bayulu        | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.8                  | 0.8  | 0.8  | ✓             | 2             | ✓             |
| Beagle Bay    | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 1             | 0.2                  | 0.2  | 0.2  | ✓             | 1             | ✓             |
| Bidyadanga    | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.4                  | 0.6  | 0.5  | ✓             | 2             | ✓             |
| Bobieding     | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 1             | 0.2                  | 0.2  | 0.2  | ✓             | 1             | ✓             |
| Bow River     | 26                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 11            | 1.4                  | 2.1  | 1.74 | (5)           | 2             | ✓             |
| Budgarjook    | 29                               | 1                    | 150           | (2)             | 0                                | 0                                             | (1)             | 25                            | 0                                          | ✓               | 1             | <0.1                 | <0.1 | <0.1 | ✓             | 1             | ✓             |
| Burralluba    | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 13            | 1.2                  | 2.1  | 1.62 | (8)           | 2             | ✓             |
| Djarindjin    | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.1                  | 0.2  | 0.15 | ✓             | 2             | ✓             |
| Djugerari     | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 1                    | 1.1  | 1.05 | ✓             | 2             | ✓             |
| Dodnun        | 24                               | 0                    | 0             | ✓               | 1                                | 0                                             | ✓               | 24                            | 0                                          | ✓               | 2             | 0.2                  | 0.3  | 0.25 | ✓             | 2             | ✓             |
| Doon Doon     | 28                               | 0                    | 0             | ✓               | 2                                | 0                                             | ✓               | 26                            | 1                                          | (4)             | 2             | 0.6                  | 0.6  | 0.6  | ✓             | 2             | ✓             |
| Emu Creek     | 22                               | 0                    | 0             | ✓               | 1                                | 0                                             | ✓               | 22                            | 0                                          | ✓               | 2             | 0.2                  | 0.3  | 0.25 | ✓             | 2             | ✓             |
| Galeru Gorge  | 26                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 26                            | 1                                          | (4)             | 2             | 0.1                  | 0.4  | 0.25 | ✓             | 2             | ✓             |
| Ganinyi       | 30                               | 0                    | 0             | ✓               | 1                                | 0                                             | ✓               | 30                            | 3                                          | (4)             | 2             | 0.4                  | 0.4  | 0.4  | ✓             | 2             | ✓             |
| Imintji       | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.3                  | 0.6  | 0.45 | ✓             | 2             | ✓             |
| Jarlmadangah  | 23                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 23                            | 0                                          | ✓               | 4             | 0.5                  | 0.6  | 0.53 | ✓             | 4             | ✓             |
| Jimbalakadunj | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.3                  | 0.5  | 0.4  | ✓             | 2             | ✓             |
| Joy Springs   | 20                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 20                            | 0                                          | ✓               | 2             | 0.5                  | 0.6  | 0.55 | ✓             | 2             | ✓             |
| Junjuwa       | 24                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 4             | 0.4                  | 0.7  | 0.58 | ✓             | 4             | ✓             |
| Kalumburu     | 22                               | 0                    | 0             | ✓               | 2                                | 0                                             | ✓               | 22                            | 0                                          | ✓               | 2             | 0.2                  | 0.4  | 0.3  | ✓             | 2             | ✓             |
| Kandiwal      | 26                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 24                            | 0                                          | ✓               | 2             | 0.2                  | 0.6  | 0.4  | ✓             | 2             | ✓             |
| Karnparmi     | 26                               | 0                    | 0             | ✓               | 1                                | 0                                             | ✓               | 26                            | 1                                          | (4)             | 2             | 0.9                  | 0.9  | 0.9  | ✓             | 2             | ✓             |
| Koorabye      | 20                               | 0                    | 0             | ✓               | 0                                | 0                                             | (1)             | 20                            | 0                                          | ✓               | 2             | 1                    | 1.1  | 1.05 | ✓             | 2             | ✓             |

(1) No samples required in this 12-month period. (refer to *Appendix B - list of sampling parameters*, page 34).

(2) Non-compliance associated with microbiological performance criterion as defined in the MoU with DoH. Response protocols were implemented in accordance with DoH requirements, including issuing a temporary public advisory describing actions community members need to take until the return of safe drinking water supply to the community was verified.

(4) Thermophilic *Naegleria* detection (not *Naegleria fowleri*) - response protocols were implemented in accordance with DoH requirements, including issuing a temporary public advisory when required (refer to *Water quality advisories - temporary*, page 28).

(5) Non-compliance associated with the health guideline value of fluoride, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for children under 9 years of age.

(8) Non-compliance associated with the health guideline value of fluoride, a naturally occurring characteristic of the source supplying this community. Under normal operating conditions fluoride is maintained below the guideline value. An extreme increase in water consumption in the community can cause a temporary fluoride spike above the guideline value. Actions, such as leak repairs, to immediately reduce the water flow restores the fluoride level to below the guideline value.

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|                  | Table 1 Health related variables |                                |               |                 |                           |                                        |                 |                        |                                               |                 |               |                      |     |      |               |               |               |
|------------------|----------------------------------|--------------------------------|---------------|-----------------|---------------------------|----------------------------------------|-----------------|------------------------|-----------------------------------------------|-----------------|---------------|----------------------|-----|------|---------------|---------------|---------------|
| AC Kimberley     | E. coli                          |                                |               |                 | Burkholderia pseudomallei |                                        |                 | Thermophilic Naegleria |                                               |                 | Fluoride      |                      |     |      | Metals        |               |               |
| Community        | Samples taken                    | Number of samples >0 cfu/100mL | Max cfu/100mL | Requirement met | Samples taken             | Number of samples with B. pseudomallei | Requirement met | Samples taken          | Number of samples with Thermophilic Naegleria | Requirement met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Guideline met |
|                  |                                  |                                |               |                 |                           |                                        |                 |                        |                                               |                 |               | Min                  | Max | Mean |               |               |               |
| Kundat Djaru     | 30                               | 1                              | 3             | (3)             | 0                         | 0                                      | (1)             | 28                     | 0                                             | ✓               | 3             | 0.3                  | 0.4 | 0.3  | ✓             | 3             | ✓             |
| Kupartiya        | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.6                  | 0.7 | 0.7  | ✓             | 2             | ✓             |
| Kupungarri       | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.3                  | 0.4 | 0.4  | ✓             | 2             | ✓             |
| La Djardarr Bay  | 26                               | 0                              | 0             | ✓               | 1                         | 0                                      | ✓               | 26                     | 0                                             | ✓               | 1             | 0.2                  | 0.2 | 0.2  | ✓             | 1             | ✓             |
| Lamboo Gunian    | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 1.0                  | 1.1 | 1.1  | ✓             | 2             | ✓             |
| Lombadina        | 26                               | 0                              | 0             | ✓               | 1                         | 0                                      | ✓               | 24                     | 0                                             | ✓               | 3             | <0.1                 | 0.2 | 0.1  | ✓             | 3             | ✓             |
| Looma            | 24                               | 0                              | 0             | ✓               | 24                        | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.3                  | 0.4 | 0.4  | ✓             | 2             | ✓             |
| Looma New        | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | ✓               | 24                     | 0                                             | ✓               | 2             | 0.2                  | 0.4 | 0.3  | ✓             | 2             | ✓             |
| Mandangala       | 24                               | 0                              | 0             | ✓               | 2                         | 0                                      | ✓               | 24                     | 0                                             | ✓               | 2             | 0.2                  | 0.2 | 0.2  | ✓             | 2             | ✓             |
| Mindibungu       | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 1             | 0.7                  | 0.7 | 0.7  | ✓             | 1             | ✓             |
| Moongardie       | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 25                     | 0                                             | ✓               | 2             | 1.0                  | 1.1 | 1.1  | ✓             | 2             | ✓             |
| Mulan            | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 1             | 0.9                  | 0.9 | 0.9  | ✓             | 3             | ✓             |
| Muludja          | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.3                  | 0.4 | 0.4  | ✓             | 2             | ✓             |
| Ngalingkadji     | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 12            | 1.2                  | 1.5 | 1.3  | ✓             | 2             | ✓             |
| Ngallagunda      | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.2                  | 0.5 | 0.4  | ✓             | 2             | ✓             |
| Ngumpun          | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.3                  | 0.4 | 0.4  | ✓             | 2             | ✓             |
| Ngurtuwarta      | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.4                  | 0.4 | 0.4  | ✓             | 2             | ✓             |
| Pandanus Park    | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 4             | <0.1                 | 0.2 | <0.1 | ✓             | 4             | ✓             |
| Ribinyung Dawang | 24                               | 0                              | 0             | ✓               | 1                         | 0                                      | ✓               | 22                     | 0                                             | ✓               | 2             | 0.5                  | 0.5 | 0.5  | ✓             | 2             | ✓             |
| Wangkatjungka    | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 3             | 0.5                  | 0.7 | 0.6  | ✓             | 3             | ✓             |
| Warmun           | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.8                  | 0.9 | 0.9  | ✓             | 2             | ✓             |
| Wurrenranginy    | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.5                  | 0.5 | 0.5  | ✓             | 2             | ✓             |
| Yakanarra        | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.6                  | 0.7 | 0.7  | ✓             | 2             | ✓             |
| Yirralallem      | 22                               | 0                              | 0             | ✓               | 1                         | 0                                      | ✓               | 22                     | 0                                             | ✓               | 2             | 0.3                  | 0.5 | 0.4  | ✓             | 2             | ✓             |
| Yiyili           | 24                               | 0                              | 0             | ✓               | 0                         | 0                                      | (1)             | 24                     | 0                                             | ✓               | 2             | 0.4                  | 0.5 | 0.5  | ✓             | 2             | ✓             |
| Yungngora        | 24                               | 0                              | 0             | ✓               | 2                         | 0                                      | ✓               | 23                     | 0                                             | ✓               | 2             | 0.7                  | 0.9 | 0.8  | ✓             | 2             | ✓             |

(1) No samples required in this 12-month period. (refer to *Appendix B - list of sampling parameters*, page 34).

(3) Non-compliance associated with microbiological performance criterion as defined in the MoU with DoH. Response protocols, implemented in accordance with DoH requirements, demonstrated continuous supply of safe drinking water to the community.

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|               | Table 2 Health related variables |                      |      |      |               |               |               |                 |                      |       |       |               |               |                      |        |        |               |
|---------------|----------------------------------|----------------------|------|------|---------------|---------------|---------------|-----------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Kimberley  | Nitrate (as NO <sub>3</sub> )    |                      |      |      |               | Radiological  |               | Trihalomethanes |                      |       |       |               | Uranium       |                      |        |        |               |
| Community     | Samples taken                    | Concentration (mg/L) |      |      | Guideline met | Samples taken | Guideline met | Samples taken   | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met |
|               |                                  | Min                  | Max  | Mean |               |               |               |                 | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |
| Ardyaloon     | 2                                | <0.2                 | <0.2 | <0.2 | ✓             | 4             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Balgo         | 3                                | 5.7                  | 7.0  | 6.2  | ✓             | 4             | ✓             | 0               | -                    | -     | -     | (15)          | 1             | 0.003                | 0.003  | 0.003  | ✓             |
| Bayulu        | 3                                | 14.1                 | 20.2 | 17.6 | ✓             | 4             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | 0.001  | 0.001  | ✓             |
| Beagle Bay    | 10                               | 32.6                 | 40.0 | 36.5 | ✓             | 0             | (1)           | 0               | -                    | -     | -     | (15)          | 1             | <0.001               | <0.001 | <0.001 | ✓             |
| Bidyadanga    | 2                                | 3.5                  | 4.0  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Bobieding     | 4                                | 0.9                  | 1.8  | 1.3  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 1             | <0.001               | <0.001 | <0.001 | ✓             |
| Bow River     | 11                               | 52.8                 | 66.0 | 55.9 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 12            | 0.011                | 0.017  | 0.014  | ✓             |
| Budgarjook    | 12                               | 40.0                 | 66.0 | 54.1 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 1             | <0.001               | <0.001 | <0.001 | ✓             |
| Burralluba    | 3                                | 3.5                  | 3.5  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 12            | 0.013                | 0.015  | 0.014  | ✓             |
| Djarindjin    | 2                                | 4.0                  | 5.7  | 4.8  | ✓             | 2             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Djugerari     | 4                                | 28.2                 | 39.2 | 33.0 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.001                | 0.002  | 0.002  | ✓             |
| Dodnun        | 2                                | 3.5                  | 4.0  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Doon Doon     | 2                                | 3.5                  | 3.5  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Emu Creek     | 3                                | 11.9                 | 12.3 | 12.3 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Galeru Gorge  | 12                               | 35.6                 | 38.3 | 37.0 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Ganinyi       | 3                                | 0.4                  | 0.4  | 0.4  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.002                | 0.005  | 0.004  | ✓             |
| Imintji       | 2                                | 7.9                  | 9.2  | 8.8  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | 0.004  | 0.003  | ✓             |
| Jarlmadangah  | 2                                | 19.4                 | 19.8 | 19.8 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 4             | 0.001                | 0.001  | 0.001  | ✓             |
| Jimbalakadunj | 12                               | 34.8                 | 48.4 | 40.0 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Joy Springs   | 2                                | 8.4                  | 9.2  | 8.8  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.001                | 0.002  | 0.002  | ✓             |
| Junjuwa       | 2                                | 19.4                 | 19.8 | 19.8 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 4             | 0.004                | 0.005  | 0.004  | ✓             |
| Kalumburu     | 12                               | 31.2                 | 48.8 | 40.5 | ✓             | 1             | ✓             | 4               | 0.034                | 0.073 | 0.054 | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Kandiwal      | 2                                | 4.8                  | 9.2  | 8.8  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Karnparmi     | 2                                | 19.4                 | 19.8 | 19.8 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.009                | 0.010  | 0.010  | ✓             |
| Koorabye      | 12                               | 31.3                 | 49.3 | 40.9 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |

(1) No samples required in this 12-month period. (refer to *Appendix B - list of sampling parameters*, page 34).

(15) Trihalomethanes (THM) are a disinfection by-product (refer to *Understanding water quality test results - Trihalomethanes*, page 23). In agreement with DoH, no sampling is currently required if the THM formation risk is low.

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|                  | Table 2    Health related variables |                      |      |      |               |               |               |                 |                      |     |      |               |               |                      |        |        |               |
|------------------|-------------------------------------|----------------------|------|------|---------------|---------------|---------------|-----------------|----------------------|-----|------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Kimberley     | Nitrate (as NO <sub>3</sub> )       |                      |      |      |               | Radiological  |               | Trihalomethanes |                      |     |      |               | Uranium       |                      |        |        |               |
| Community        | Samples taken                       | Concentration (mg/L) |      |      | Guideline met | Samples taken | Guideline met | Samples taken   | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met |
|                  |                                     | Min                  | Max  | Mean |               |               |               |                 | Min                  | Max | Mean |               |               | Min                  | Max    | Mean   |               |
| Kundat Djaru     | 3                                   | 2.2                  | 3.1  | 2.6  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Kupartiya        | 2                                   | 12.8                 | 13.6 | 13.2 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.005                | 0.005  | 0.005  | ✓             |
| Kupungarri       | 2                                   | 0.4                  | 0.4  | 0.4  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.003                | 0.004  | 0.004  | ✓             |
| La Djardarr Bay  | 2                                   | 2.2                  | 2.2  | 2.2  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 1             | <0.001               | <0.001 | <0.001 | ✓             |
| Lamboogunian     | 2                                   | 24.6                 | 29.9 | 27.3 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.009                | 0.009  | 0.009  | ✓             |
| Lombadina        | 3                                   | 5.7                  | 7.0  | 6.2  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Looma            | 2                                   | 3.5                  | 4.0  | 4.0  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Looma New        | 2                                   | 2.6                  | 3.1  | 2.6  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Mandangala       | 2                                   | 2.6                  | 3.1  | 3.1  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Mindibungu       | 2                                   | 15.4                 | 16.3 | 15.8 | ✓             | 4             | ✓             | 0               | -                    | -   | -    | (15)          | 1             | <0.001               | <0.001 | <0.001 | ✓             |
| Moongardie       | 2                                   | 10.6                 | 11.9 | 11.4 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.006                | 0.006  | 0.006  | ✓             |
| Mulan            | 12                                  | 23.8                 | 29.5 | 26.0 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 1             | 0.003                | 0.003  | 0.003  | ✓             |
| Muludja          | 2                                   | 2.2                  | 2.2  | 2.2  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.001                | 0.002  | 0.002  | ✓             |
| Ngalingkadji     | 2                                   | 0.0                  | 0.0  | 0.0  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Ngallagunda      | 2                                   | <0.2                 | <0.2 | <0.2 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Ngumpan          | 2                                   | 2.6                  | 3.1  | 3.1  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Ngurtuwarda      | 2                                   | 3.1                  | 3.5  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Pandanus Park    | 12                                  | 57.2                 | 96.8 | 73.0 | (12)          | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 4             | <0.001               | 0.001  | 0.001  | ✓             |
| Ribinyung Dawang | 2                                   | <0.2                 | <0.2 | <0.2 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.001                | 0.001  | 0.001  | ✓             |
| Wangkatjungka    | 3                                   | 0.4                  | 0.4  | 0.4  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Warmun           | 2                                   | 4.8                  | 7.0  | 6.2  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.002                | 0.002  | 0.002  | ✓             |
| Wurrenranginy    | 2                                   | 0.4                  | 0.4  | 0.4  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | 0.001                | 0.001  | 0.001  | ✓             |
| Yakanarra        | 2                                   | 13.6                 | 14.1 | 14.1 | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Yirralallem      | 2                                   | 1.8                  | 1.8  | 1.8  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | 0.001  | ✓             |
| Yiyili           | 2                                   | 0.4                  | 0.4  | 0.4  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | 0.001  | <0.001 | ✓             |
| Yungngora        | 2                                   | <0.2                 | 1.3  | 0.9  | ✓             | 1             | ✓             | 0               | -                    | -   | -    | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |

(12) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(15) Trihalomethanes (THM) are a disinfection by-product (refer to *Understanding water quality test results - Trihalomethanes*, page 23). In agreement with DoH, no sampling is currently required if the THM formation risk is low.

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|               | Table 3    Aesthetic (non-health related) variables |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|---------------|-----------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Kimberley  | Alkalinity (as CaCO3)                               |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community     | Samples taken                                       | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|               |                                                     | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Ardyaloon     | 2                                                   | 72                   | 180 | 126  | (18)          | 2             | <0.05                | 0.06  | 0.06  | ✓             | 2             | 140                  | 160 | 150  | ✓             | 2             | 53                   | 100 | 77   | ✓             |
| Balgo         | 1                                                   | 120                  | 120 | 120  | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 330                  | 330 | 330  | (19)          | 1             | 450                  | 450 | 450  | (20)          |
| Bayulu        | 2                                                   | 240                  | 290 | 265  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 18                   | 19  | 19   | ✓             | 2             | 210                  | 210 | 210  | (20)          |
| Beagle Bay    | 1                                                   | 9.0                  | 9.0 | 9.0  | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 26                   | 26  | 26   | ✓             | 1             | 14                   | 14  | 14   | ✓             |
| Bidyadanga    | 2                                                   | 110                  | 110 | 110  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 140                  | 150 | 145  | ✓             | 2             | 84                   | 86  | 85   | ✓             |
| Bobieding     | 1                                                   | 13                   | 13  | 13   | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 68                   | 68  | 68   | ✓             | 1             | 42                   | 42  | 42   | ✓             |
| Bow River     | 2                                                   | 350                  | 380 | 365  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 12                   | 12  | 12   | ✓             | 2             | 160                  | 190 | 175  | ✓             |
| Budgarjook    | 1                                                   | 7.0                  | 7.0 | 7.0  | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 24                   | 24  | 24   | ✓             | 1             | 11                   | 11  | 11   | ✓             |
| Burraluba     | 2                                                   | 530                  | 560 | 545  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 27                   | 28  | 28   | ✓             | 2             | 270                  | 270 | 270  | (20)          |
| Djarindjin    | 2                                                   | 17                   | 17  | 17   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 170                  | 190 | 180  | ✓             | 2             | 58                   | 65  | 62   | ✓             |
| Djugerari     | 2                                                   | 190                  | 220 | 205  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 150                  | 160 | 155  | ✓             | 2             | 330                  | 350 | 340  | (20)          |
| Dodnun        | 2                                                   | 12                   | 15  | 14   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 8.2                  | 16  | 12   | ✓             | 2             | 6.8                  | 6.8 | 6.8  | ✓             |
| Doon Doon     | 2                                                   | 440                  | 450 | 445  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 14                   | 15  | 15   | ✓             | 2             | 260                  | 330 | 295  | (20)          |
| Emu Creek     | 2                                                   | <5                   | <5  | <5   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 10                   | 11  | 11   | ✓             | 2             | <5                   | <5  | <5   | ✓             |
| Galeru Gorge  | 2                                                   | 320                  | 350 | 335  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 15                   | 16  | 16   | ✓             | 2             | 280                  | 310 | 295  | (20)          |
| Ganinyi       | 2                                                   | 190                  | 260 | 225  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 16                   | 29  | 23   | ✓             | 2             | 150                  | 210 | 180  | (20)          |
| Imintji       | 2                                                   | 420                  | 580 | 500  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 13                   | 97  | 55   | ✓             | 2             | 350                  | 470 | 410  | (20)          |
| Jarlmadangah  | 4                                                   | 150                  | 170 | 158  | (18)          | 4             | <0.05                | <0.05 | <0.05 | ✓             | 4             | 24                   | 71  | 51   | ✓             | 4             | 85                   | 130 | 104  | ✓             |
| Jimbalakadunj | 2                                                   | 230                  | 260 | 245  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 350                  | 370 | 360  | (19)          | 2             | 54                   | 56  | 55   | ✓             |
| Joy Springs   | 2                                                   | 230                  | 300 | 265  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 18                   | 21  | 20   | ✓             | 2             | 200                  | 270 | 235  | (20)          |
| Junjuwa       | 4                                                   | 220                  | 300 | 265  | (18)          | 4             | <0.05                | <0.05 | <0.05 | ✓             | 4             | 61                   | 72  | 68   | ✓             | 4             | 170                  | 210 | 193  | (20)          |
| Kalumburu     | 2                                                   | 23                   | 83  | 53   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 7.7                  | 9.5 | 8.6  | ✓             | 2             | 21                   | 57  | 39   | ✓             |
| Kandiwal      | 2                                                   | 130                  | 160 | 145  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 5.6                  | 5.9 | 5.8  | ✓             | 2             | 110                  | 120 | 115  | ✓             |
| Karnparmi     | 2                                                   | 360                  | 430 | 395  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 220                  | 230 | 225  | ✓             | 2             | 360                  | 410 | 385  | (20)          |
| Koorabye      | 2                                                   | 240                  | 280 | 260  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 300                  | 330 | 315  | (19)          | 2             | 89                   | 100 | 95   | ✓             |

(18) No guideline value available as per ADWG 2011.

(19) Elevated chloride is characteristic of the source supplying this community.

(20) Elevated hardness is characteristic of the source supplying this community.



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|                  | Table 3 Aesthetic (non-health related) variables |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|------------------|--------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Kimberley     | Alkalinity (as CaCO3)                            |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community        | Samples taken                                    | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                  |                                                  | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Kundat Djaru     | 3                                                | 20                   | 22  | 20.7 | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 40                   | 44  | 41   | ✓             | 3             | 26                   | 28  | 27   | ✓             |
| Kupartiya        | 2                                                | 260                  | 270 | 265  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 87                   | 98  | 93   | ✓             | 2             | 240                  | 260 | 250  | (20)          |
| Kupungarri       | 2                                                | 580                  | 580 | 580  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 83                   | 96  | 90   | ✓             | 2             | 460                  | 520 | 490  | (20)          |
| La Djardarr Bay  | 1                                                | 31                   | 31  | 31   | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 130                  | 130 | 130  | ✓             | 1             | 45                   | 45  | 45   | ✓             |
| Lamboogunian     | 2                                                | 490                  | 550 | 520  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 48                   | 63  | 56   | ✓             | 2             | 350                  | 380 | 365  | (20)          |
| Lombadina        | 3                                                | 11                   | 12  | 11.3 | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 150                  | 170 | 163  | ✓             | 3             | 59                   | 71  | 64   | ✓             |
| Looma            | 2                                                | 14                   | 17  | 15.5 | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 17                   | 21  | 19   | ✓             | 2             | 10                   | 12  | 11   | ✓             |
| Looma New        | 2                                                | <5                   | <5  | <5   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 8.6                  | 8.7 | 9    | ✓             | 2             | <5                   | <5  | <5   | ✓             |
| Mandangala       | 2                                                | 110                  | 210 | 160  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | <5                   | 5.2 | 5.1  | ✓             | 2             | 65                   | 160 | 113  | ✓             |
| Mindibungu       | 1                                                | 92                   | 92  | 92   | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 71                   | 71  | 71   | ✓             | 1             | 100                  | 100 | 100  | ✓             |
| Moongardie       | 2                                                | 300                  | 320 | 310  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 38                   | 43  | 41   | ✓             | 2             | 220                  | 230 | 225  | (20)          |
| Mulan            | 1                                                | 180                  | 180 | 180  | (18)          | 1             | <0.05                | <0.05 | <0.05 | ✓             | 1             | 390                  | 390 | 390  | (19)          | 1             | 460                  | 460 | 460  | (20)          |
| Muludja          | 2                                                | 120                  | 150 | 135  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 28                   | 31  | 30   | ✓             | 2             | 110                  | 130 | 120  | ✓             |
| Ngalingkadji     | 2                                                | 340                  | 350 | 345  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 500                  | 540 | 520  | (19)          | 2             | 170                  | 200 | 185  | ✓             |
| Ngallagunda      | 2                                                | <5                   | <5  | <5   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 6.1                  | 6.6 | 6.4  | ✓             | 2             | <5                   | <5  | <5   | ✓             |
| Ngumpun          | 2                                                | 320                  | 330 | 325  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 22                   | 23  | 23   | ✓             | 2             | 320                  | 340 | 330  | (20)          |
| Ngurtuwarda      | 2                                                | 89                   | 110 | 99.5 | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 78                   | 83  | 81   | ✓             | 2             | 110                  | 120 | 115  | ✓             |
| Pandanus Park    | 4                                                | 28                   | 46  | 34.8 | (18)          | 4             | <0.05                | <0.05 | <0.05 | ✓             | 4             | 250                  | 280 | 263  | (19)          | 4             | 110                  | 140 | 128  | ✓             |
| Ribinyung Dawang | 2                                                | 190                  | 230 | 210  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 11                   | 11  | 11   | ✓             | 2             | 160                  | 170 | 165  | ✓             |
| Wangkatjungka    | 3                                                | 230                  | 250 | 240  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 210                  | 240 | 220  | ✓             | 3             | 180                  | 210 | 190  | ✓             |
| Warmun           | 2                                                | 500                  | 530 | 515  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 25                   | 25  | 25   | ✓             | 2             | 310                  | 360 | 335  | (20)          |
| Wurrenranginy    | 2                                                | 410                  | 440 | 425  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 9.7                  | 10  | 10   | ✓             | 2             | 280                  | 350 | 315  | (20)          |
| Yakanarra        | 2                                                | 64                   | 77  | 70.5 | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 28                   | 38  | 33   | ✓             | 2             | 32                   | 39  | 36   | (20)          |
| Yirralallem      | 2                                                | <5                   | <5  | <5   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 6.3                  | 7.9 | 7    | ✓             | 2             | 5.8                  | 6.0 | 5.9  | ✓             |
| Yiyili           | 2                                                | 190                  | 210 | 200  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 16                   | 18  | 17   | ✓             | 2             | 140                  | 180 | 160  | ✓             |
| Yungngora        | 2                                                | 260                  | 350 | 305  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 140                  | 150 | 145  | ✓             | 2             | 7.7                  | 8.8 | 7.9  | ✓             |

(18) No guideline value available as per ADWG 2011.

(19) Elevated chloride is characteristic of the source supplying this community.

(20) Elevated hardness is characteristic of the source supplying this community.



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Table 4 Aesthetic (non-health related) variables

| AC Kimberley  | Iron          |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |      |      |               | Silica        |                      |     |      |               |
|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|------|------|---------------|---------------|----------------------|-----|------|---------------|
| Community     | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |      |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|               |               | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max  | Mean |               |               | Min                  | Max | Mean |               |
| Ardyaloon     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 6.50             | 7.70 | 7.33 | ✓             | 2             | 27                   | 28  | 27.5 | ✓             |
| Balgo         | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 6.80             | 6.80 | 6.80 | ✓             | 1             | 18                   | 18  | 18   | ✓             |
| Bayulu        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.20             | 7.30 | 7.25 | ✓             | 2             | 42                   | 43  | 42.5 | ✓             |
| Beagle Bay    | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 5.80             | 5.80 | 5.80 | (24)          | 1             | 41                   | 41  | 41   | ✓             |
| Bidyadanga    | 2             | <0.01                | 0.02  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.00             | 7.20 | 7.10 | ✓             | 2             | 83                   | 86  | 84.5 | (26)          |
| Bobieding     | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 5.90             | 5.90 | 5.90 | (24)          | 1             | 67                   | 67  | 67   | ✓             |
| Bow River     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.00             | 8.20 | 8.10 | ✓             | 2             | 59                   | 61  | 60   | ✓             |
| Budgarjook    | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 5.60             | 5.60 | 5.60 | (24)          | 1             | 43                   | 43  | 43   | ✓             |
| Burralluba    | 2             | <0.01                | 0.03  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.10             | 8.30 | 8.20 | ✓             | 2             | 32                   | 34  | 33   | ✓             |
| Djarindjin    | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.50             | 5.80 | 5.65 | (24)          | 2             | 30                   | 33  | 31.5 | ✓             |
| Djugerari     | 6             | 0.17                 | 0.60  | 0.37  | (21)          | 6             | 0.008                | 0.024  | 0.016  | ✓             | 2             | 7.90             | 8.00 | 7.95 | ✓             | 2             | 19                   | 20  | 19.5 | ✓             |
| Dodnun        | 2             | 1.00                 | 1.10  | 1.05  | (21)          | 2             | 0.012                | 0.017  | 0.015  | ✓             | 2             | 5.80             | 6.10 | 5.95 | (24)          | 2             | 13                   | 14  | 13.5 | ✓             |
| Doon Doon     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.10             | 8.30 | 8.20 | ✓             | 2             | 73                   | 74  | 73.5 | ✓             |
| Emu Creek     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.40             | 5.90 | 5.65 | (24)          | 2             | 19                   | 19  | 19   | ✓             |
| Galeru Gorge  | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.30             | 8.30 | 7.80 | ✓             | 2             | 22                   | 24  | 23   | ✓             |
| Ganinyi       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.30             | 8.20 | 7.75 | ✓             | 2             | 42                   | 43  | 42.5 | ✓             |
| Imintji       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.60             | 7.80 | 7.70 | ✓             | 2             | 50                   | 66  | 58   | ✓             |
| Jarlmadangah  | 4             | <0.01                | 0.07  | 0.02  | ✓             | 4             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 7.40             | 8.20 | 7.70 | ✓             | 4             | 28                   | 33  | 31.3 | ✓             |
| Jimbalakadunj | 2             | <0.01                | 0.02  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.90             | 8.00 | 7.95 | ✓             | 2             | 18                   | 19  | 18.5 | ✓             |
| Joy Springs   | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.40             | 7.50 | 7.45 | ✓             | 2             | 26                   | 31  | 28.5 | ✓             |
| Junjuwa       | 4             | <0.01                | <0.01 | <0.01 | ✓             | 4             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 7.50             | 8.00 | 7.78 | ✓             | 4             | 27                   | 28  | 27.5 | ✓             |
| Kalumburu     | 2             | 0.01                 | 0.03  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.40             | 6.90 | 6.65 | ✓             | 2             | 12                   | 18  | 15   | ✓             |
| Kandiwal      | 2             | 0.40                 | 0.86  | 0.63  | (21)          | 2             | 0.087                | 0.110  | 0.099  | ✓             | 2             | 7.40             | 7.40 | 7.40 | ✓             | 2             | 73                   | 74  | 73.5 | ✓             |
| Karnparmi     | 2             | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.10             | 7.50 | 7.30 | ✓             | 2             | 37                   | 39  | 38   | ✓             |
| Koorabye      | 2             | <0.01                | 0.04  | 0.03  | ✓             | 2             | <0.005               | 0.007  | 0.006  | ✓             | 2             | 8.30             | 8.40 | 8.35 | ✓             | 2             | 22                   | 23  | 22.5 | ✓             |

(21) Elevated iron is a naturally occurring characteristic of the source supplying this community.

(24) Low pH is a characteristic of the source supplying this community.

(26) Silica is a naturally occurring characteristic of the source supplying this community.



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Table 4 Aesthetic (non-health related) variables

| AC Kimberley     | Iron          |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |      |      |               | Silica        |                      |     |      |               |
|------------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|------|------|---------------|---------------|----------------------|-----|------|---------------|
| Community        | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |      |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                  |               | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max  | Mean |               |               | Min                  | Max | Mean |               |
| Kundat Djaru     | 3             | <0.01                | <0.01 | <0.01 | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 6.00             | 6.10 | 6.03 | (24)          | 3             | 19                   | 21  | 20   | ✓             |
| Kupartiya        | 2             | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.40             | 7.90 | 7.65 | ✓             | 2             | 48                   | 53  | 51   | ✓             |
| Kupungarri       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.60             | 7.80 | 7.70 | ✓             | 2             | 46                   | 48  | 47   | ✓             |
| La Djardarr Bay  | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 6.30             | 6.30 | 6.30 | (24)          | 1             | 81                   | 81  | 81   | (26)          |
| Lamboogunian     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.00             | 8.20 | 8.10 | ✓             | 2             | 70                   | 74  | 72   | ✓             |
| Lombadina        | 3             | <0.01                | 0.01  | 0.01  | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 5.70             | 6.40 | 5.97 | (24)          | 3             | 32                   | 35  | 34   | ✓             |
| Looma            | 2             | 0.01                 | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.90             | 6.20 | 6.05 | (24)          | 2             | 24                   | 25  | 25   | ✓             |
| Looma New        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.50             | 5.90 | 5.70 | (24)          | 2             | 18                   | 19  | 19   | ✓             |
| Mandangala       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.00             | 7.20 | 7.10 | ✓             | 2             | 23                   | 23  | 23   | ✓             |
| Mindibungu       | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 6.70             | 6.70 | 6.70 | ✓             | 1             | 49                   | 49  | 49   | ✓             |
| Moongardie       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.20             | 8.40 | 8.30 | ✓             | 2             | 59                   | 65  | 62   | ✓             |
| Mulan            | 1             | <0.01                | <0.01 | <0.01 | ✓             | 1             | <0.005               | <0.005 | <0.005 | ✓             | 1             | 7.40             | 7.40 | 7.40 | ✓             | 1             | 62                   | 62  | 62   | ✓             |
| Muludja          | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.00             | 7.30 | 7.15 | ✓             | 2             | 33                   | 34  | 34   | ✓             |
| Ngalingkadji     | 2             | <0.01                | 0.01  | 0.01  | ✓             | 2             | 0.012                | 0.012  | 0.012  | ✓             | 2             | 8.40             | 8.40 | 8.40 | ✓             | 2             | 18                   | 20  | 19   | ✓             |
| Ngallagunda      | 2             | 0.01                 | 0.02  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.30             | 5.50 | 5.40 | (24)          | 2             | 16                   | 16  | 16   | ✓             |
| Ngumpun          | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.80             | 7.90 | 7.85 | ✓             | 2             | 19                   | 20  | 20   | ✓             |
| Ngurtuwarda      | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.60             | 6.70 | 6.65 | ✓             | 2             | 20                   | 20  | 20   | ✓             |
| Pandanus Park    | 4             | <0.01                | 0.07  | 0.02  | ✓             | 4             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 6.20             | 7.50 | 6.60 | ✓             | 4             | 82                   | 84  | 83   | (26)          |
| Ribinyung Dawang | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.60             | 7.90 | 7.75 | ✓             | 2             | 50                   | 52  | 51   | ✓             |
| Wangkatjungka    | 12            | 0.19                 | 1.10  | 0.34  | (21)          | 12            | 0.022                | 0.170  | 0.045  | ✓             | 3             | 8.00             | 8.20 | 8.07 | ✓             | 3             | 16                   | 18  | 17   | ✓             |
| Warmun           | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.10             | 8.20 | 8.15 | ✓             | 2             | 64                   | 68  | 66   | ✓             |
| Wurrenranginy    | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.90             | 8.10 | 8.00 | ✓             | 2             | 63                   | 66  | 65   | ✓             |
| Yakanarra        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.00             | 7.50 | 7.25 | ✓             | 2             | 64                   | 65  | 65   | ✓             |
| Yirralallem      | 2             | 0.02                 | 0.02  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 5.60             | 5.80 | 5.70 | (24)          | 2             | 15                   | 15  | 15   | ✓             |
| Yiyili           | 2             | <0.01                | 0.02  | 0.02  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.30             | 7.70 | 7.50 | ✓             | 2             | 33                   | 33  | 33   | ✓             |
| Yungngora        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | 0.018                | 0.026  | 0.022  | ✓             | 2             | 8.40             | 8.50 | 8.45 | ✓             | 2             | 23                   | 28  | 26   | ✓             |

(21) Elevated iron is a naturally occurring characteristic of the source supplying this community.

(24) Low pH is a characteristic of the source supplying this community.

(26) Silica is a naturally occurring characteristic of the source supplying this community.



Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025

Table 5 Aesthetic (non-health related) variables

| AC Kimberley  | Sodium        |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |      |      |               |
|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|------|------|---------------|
| Community     | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |      |      | Guideline met |
|               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max  | Mean |               |
| Ardyaloon     | 2             | 84                   | 160 | 122  | ✓             | 2             | 17                   | 17  | 17   | ✓             | 2                      | 420                  | 510  | 465  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.6  | 0.4  | ✓             |
| Balgo         | 1             | 180                  | 180 | 180  | ✓             | 1             | 200                  | 200 | 200  | ✓             | 1                      | 1000                 | 1000 | 1000 | (29)          | 1             | <5          | <5  | <5   | ✓             | 1             | 0.5         | 0.5  | 0.5  | ✓             |
| Bayulu        | 2             | 15                   | 15  | 15   | ✓             | 2             | 3.1                  | 3.3 | 3.2  | ✓             | 2                      | 320                  | 330  | 325  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Beagle Bay    | 1             | 21                   | 21  | 21   | ✓             | 1             | 1.2                  | 1.2 | 1.2  | ✓             | 1                      | 79                   | 79   | 79   | ✓             | 1             | <5          | <5  | <5   | ✓             | 1             | 0.5         | 0.5  | 0.5  | ✓             |
| Bidyadanga    | 2             | 110                  | 120 | 115  | ✓             | 2             | 20                   | 21  | 21   | ✓             | 2                      | 470                  | 470  | 470  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.4         | 0.6  | 0.5  | ✓             |
| Bobieding     | 1             | 47                   | 47  | 47   | ✓             | 1             | 1.1                  | 1.2 | 1.2  | ✓             | 1                      | 190                  | 190  | 190  | ✓             | 1             | <5          | <5  | <5   | ✓             | 1             | 0.6         | 0.6  | 0.6  | ✓             |
| Bow River     | 2             | 81                   | 82  | 81.5 | ✓             | 2             | 6.3                  | 7.3 | 6.8  | ✓             | 2                      | 400                  | 410  | 405  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Budgarjook    | 1             | 19                   | 19  | 19   | ✓             | 1             | 1.1                  | 1.1 | 1.1  | ✓             | 1                      | 71                   | 71   | 71   | ✓             | 1             | <5          | <5  | <5   | ✓             | 1             | 0.5         | 0.5  | 0.5  | ✓             |
| Burralluba    | 2             | 130                  | 150 | 140  | ✓             | 2             | <1                   | 4.0 | 2.5  | ✓             | 2                      | 580                  | 590  | 585  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Djarindjin    | 2             | 93                   | 99  | 96   | ✓             | 2             | 20                   | 20  | 20   | ✓             | 2                      | 400                  | 410  | 405  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.9  | 0.5  | ✓             |
| Djugerari     | 2             | 150                  | 170 | 160  | ✓             | 2             | 270                  | 290 | 280  | (28)          | 2                      | 850                  | 930  | 890  | (29)          | 2             | <5          | 7.4 | 6.2  | ✓             | 4             | 0.8         | 7.5  | 2.9  | ✓             |
| Dodnun        | 2             | 6.2                  | 9.5 | 7.9  | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 28                   | 44   | 36   | ✓             | 2             | <5          | <5  | <5   | ✓             | 5             | 0.5         | 1.3  | 0.9  | ✓             |
| Doon Doon     | 2             | 54                   | 62  | 58   | ✓             | 2             | 7.6                  | 7.8 | 7.7  | ✓             | 2                      | 460                  | 470  | 465  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Emu Creek     | 2             | 5.8                  | 5.8 | 5.8  | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 26                   | 27   | 27   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Galeru Gorge  | 2             | 14                   | 14  | 14   | ✓             | 2             | 2.6                  | 5.3 | 4.0  | ✓             | 2                      | 370                  | 380  | 375  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Ganinyi       | 2             | 31                   | 48  | 39.5 | ✓             | 2             | 17                   | 33  | 25   | ✓             | 2                      | 240                  | 350  | 295  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Imintji       | 2             | 34                   | 83  | 58.5 | ✓             | 2             | 1.6                  | 2.5 | 4.1  | ✓             | 2                      | 450                  | 760  | 605  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.3         | 0.5  | 0.4  | ✓             |
| Jarlmadangah  | 4             | 39                   | 96  | 66.8 | ✓             | 4             | 28                   | 46  | 37   | ✓             | 4                      | 310                  | 410  | 355  | ✓             | 4             | <5          | <5  | <5   | ✓             | 4             | <0.1        | 1.3  | 0.4  | ✓             |
| Jimbalakadunj | 2             | 430                  | 430 | 430  | (27)          | 2             | 290                  | 310 | 300  | (28)          | 2                      | 1300                 | 1300 | 1300 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Joy Springs   | 2             | 15                   | 19  | 17   | ✓             | 2             | 5.4                  | 6.3 | 5.9  | ✓             | 2                      | 320                  | 360  | 340  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Junjuwa       | 4             | 60                   | 78  | 69   | ✓             | 4             | 17                   | 20  | 18   | ✓             | 4                      | 420                  | 460  | 440  | ✓             | 4             | <5          | <5  | <5   | ✓             | 4             | <0.1        | 0.3  | 0.1  | ✓             |
| Kalumburu     | 2             | 4.7                  | 10  | 7.4  | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 42                   | 100  | 71   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.3  | 0.2  | ✓             |
| Kandiwal      | 2             | 13                   | 13  | 13   | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 160                  | 160  | 160  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.9         | 1.5  | 1.2  | ✓             |
| Karnparmi     | 2             | 160                  | 170 | 165  | ✓             | 2             | 38                   | 39  | 39   | ✓             | 2                      | 880                  | 910  | 895  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Koorabye      | 2             | 330                  | 340 | 335  | (27)          | 2             | 190                  | 210 | 200  | ✓             | 2                      | 1100                 | 1200 | 1150 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.3  | 0.3  | ✓             |

(27) Elevated sodium is characteristic of the source supplying this community.

(28) Elevated sulfate is a characteristic of the source supplying this community.

(29) Elevated TDS is characteristic of the source supplying this community.

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|                  | Table 5    Aesthetic (non-health related) variables |                      |     |      |               |               |                      |     |      |               |                        |                      |      |      |               |               |             |     |      |               |               |             |      |      |               |
|------------------|-----------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|------|------|---------------|
| AC Kimberley     | Sodium                                              |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |      |      |               |
| Community        | Samples taken                                       | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |      |      | Guideline met |
|                  |                                                     | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max  | Mean |               |
| Kundat Djaru     | 3                                                   | 28                   | 29  | 29   | ✓             | 2             | 8.4                  | 9.0 | 8.7  | ✓             | 3                      | 140                  | 140  | 140  | ✓             | 3             | <5          | <5  | <5   | ✓             | 13            | 0.1         | 0.6  | 0.3  | ✓             |
| Kupartiya        | 2                                                   | 71                   | 86  | 79   | ✓             | 2             | 42                   | 46  | 44   | ✓             | 2                      | 510                  | 520  | 515  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2  | 0.2  | ✓             |
| Kupungarri       | 2                                                   | 73                   | 83  | 78   | ✓             | 2             | 2.5                  | 2.5 | 2.5  | ✓             | 2                      | 700                  | 760  | 730  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.5  | 0.4  | ✓             |
| La Djardarr Bay  | 1                                                   | 87                   | 87  | 87   | ✓             | 1             | 6.2                  | 6.2 | 6.2  | ✓             | 1                      | 320                  | 320  | 320  | ✓             | 1             | <5          | <5  | <5   | ✓             | 1             | 0.7         | 0.7  | 0.7  | ✓             |
| Lamboos Gunian   | 2                                                   | 110                  | 130 | 120  | ✓             | 2             | 20                   | 21  | 21   | ✓             | 2                      | 640                  | 690  | 665  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Lombadina        | 3                                                   | 91                   | 97  | 93   | ✓             | 3             | 22                   | 23  | 23   | ✓             | 3                      | 270                  | 390  | 380  | ✓             | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.7  | 0.3  | ✓             |
| Looma            | 2                                                   | 12                   | 13  | 12.5 | ✓             | 2             | 3.5                  | 3.9 | 3.7  | ✓             | 2                      | 27                   | 28   | 28   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.3  | 0.2  | ✓             |
| Looma New        | 2                                                   | 4                    | 4.7 | 4.4  | ✓             | 2             | 1.4                  | 1.5 | 1.5  | ✓             | 2                      | 69                   | 69   | 69   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Mandangala       | 2                                                   | 9.7                  | 16  | 12.9 | ✓             | 2             | <1                   | 1.2 | 1.1  | ✓             | 2                      | 130                  | 210  | 170  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.5  | 0.3  | ✓             |
| Mindibungu       | 1                                                   | 85                   | 85  | 85   | ✓             | 1             | 75                   | 75  | 75   | ✓             | 1                      | 390                  | 390  | 390  | ✓             | 1             | <5          | <5  | <5   | ✓             | 1             | 0.7         | 0.7  | 0.7  | ✓             |
| Moongardie       | 2                                                   | 65                   | 72  | 69   | ✓             | 2             | 24                   | 26  | 25   | ✓             | 2                      | 440                  | 440  | 440  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2  | 0.2  | ✓             |
| Mulan            | 1                                                   | 270                  | 270 | 270  | (27)          | 1             | 240                  | 240 | 240  | ✓             | 1                      | 1300                 | 1300 | 1300 | (29)          | 1             | <5          | <5  | <5   | ✓             | 1             | 0.5         | 0.5  | 0.5  | ✓             |
| Muludja          | 2                                                   | 25                   | 27  | 26   | ✓             | 2             | 11                   | 12  | 12   | ✓             | 2                      | 220                  | 240  | 230  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Ngalingkadji     | 2                                                   | 510                  | 520 | 515  | (27)          | 2             | 170                  | 290 | 280  | (28)          | 2                      | 1600                 | 1700 | 1650 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.3         | 0.4  | 0.4  | ✓             |
| Ngallagunda      | 2                                                   | 2.4                  | 3.2 | 2.8  | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 17                   | 17   | 17   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.7  | 0.5  | ✓             |
| Ngumpan          | 2                                                   | 9.3                  | 11  | 10   | ✓             | 2             | <1                   | 8.2 | 4.6  | ✓             | 2                      | 390                  | 400  | 395  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Ngurtuwarda      | 2                                                   | 60                   | 61  | 61   | ✓             | 2             | 41                   | 42  | 42   | ✓             | 2                      | 330                  | 340  | 335  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.1  | 0.1  | ✓             |
| Pandanus Park    | 4                                                   | 130                  | 140 | 135  | ✓             | 4             | 9.8                  | 10  | 10   | ✓             | 4                      | 630                  | 640  | 635  | (29)          | 4             | <5          | <5  | <5   | ✓             | 4             | <0.1        | 0.1  | 0.1  | ✓             |
| Ribinyung Dawang | 2                                                   | 17                   | 18  | 18   | ✓             | 2             | 3.8                  | 3.9 | 3.9  | ✓             | 2                      | 230                  | 240  | 235  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1  | 0.1  | ✓             |
| Wangkatjungka    | 3                                                   | 180                  | 200 | 190  | (27)          | 3             | 97                   | 110 | 106  | ✓             | 3                      | 780                  | 800  | 790  | (29)          | 3             | <5          | <5  | <5   | ✓             | 12            | 1.6         | 4.5  | 2.6  | ✓             |
| Warmun           | 2                                                   | 78                   | 82  | 80   | ✓             | 2             | 31                   | 37  | 34   | ✓             | 2                      | 570                  | 580  | 575  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Wurrenranginy    | 2                                                   | 40                   | 43  | 42   | ✓             | 2             | 24                   | 27  | 26   | ✓             | 2                      | 460                  | 460  | 460  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Yakanarra        | 2                                                   | 39                   | 40  | 40   | ✓             | 3             | 16                   | 17  | 17   | ✓             | 2                      | 190                  | 260  | 225  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.2  | 0.2  | ✓             |
| Yirrallalem      | 2                                                   | 2.3                  | 2.6 | 2.5  | ✓             | 2             | <1                   | 1.0 | 1.0  | ✓             | 2                      | 20                   | 20   | 20   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.2  | 0.2  | ✓             |
| Yiyili           | 2                                                   | 27                   | 30  | 29   | ✓             | 2             | 13                   | 16  | 15   | ✓             | 2                      | 240                  | 260  | 250  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Yungngora        | 2                                                   | 190                  | 200 | 195  | (27)          | 4             | <1                   | <1  | <1   | ✓             | 2                      | 560                  | 590  | 575  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.2  | 0.2  | ✓             |

(27) Elevated sodium is characteristic of the source supplying this community.

(28) Elevated sulfate is a characteristic of the source supplying this community.

(29) Elevated TDS is characteristic of the source supplying this community.

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| Table 6 Health related variables - non-drinking water supplied |               |                      |               |                 |                           |                           |                 |                        |                                     |                 |               |                      |     |      |               |
|----------------------------------------------------------------|---------------|----------------------|---------------|-----------------|---------------------------|---------------------------|-----------------|------------------------|-------------------------------------|-----------------|---------------|----------------------|-----|------|---------------|
| AC Kimberley                                                   | E. coli       |                      |               |                 | Burkholderia pseudomallei |                           |                 | Thermophilic Naegleria |                                     |                 | Fluoride      |                      |     |      |               |
| Community                                                      | Samples Taken | Samples >0 cfu/100mL | Max cfu/100mL | Requirement Met | Samples Taken             | Samples with Burkholderia | Requirement Met | Samples Taken          | Samples with Thermophilic Naegleria | Requirement Met | Samples Taken | Concentration (mg/L) |     |      | Guideline Met |
|                                                                |               |                      |               |                 |                           |                           |                 |                        |                                     |                 |               | Min                  | Max | Mean |               |
| Kadjina                                                        | 26            | 0                    | 0             | ✓               | 0                         | 0                         | (1)             | 26                     | 0                                   | ✓               | 2             | 0.6                  | 0.7 | 0.7  | ✓             |
| Munthamar                                                      | 28            | 0                    | 0             | ✓               | 1                         | 0                         | ✓               | 26                     | 0                                   | ✓               | 2             | 0.5                  | 0.5 | 0.5  | ✓             |

(1) No samples required in this 12-month period. (refer to Appendix B - list of sampling parameters, page 34).

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| Table 7 Health related variables - non-drinking water supplied |               |               |                               |                      |       |       |               |               |               |               |                      |        |        |               |
|----------------------------------------------------------------|---------------|---------------|-------------------------------|----------------------|-------|-------|---------------|---------------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Kimberley                                                   | Metals        |               | Nitrate (as NO <sub>3</sub> ) |                      |       |       |               | Radiological  |               | Uranium       |                      |        |        |               |
| Community                                                      | Samples taken | Guideline met | Samples taken                 | Concentration (mg/L) |       |       | Guideline met | Samples taken | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met |
|                                                                |               |               |                               | Min                  | Max   | Mean  |               |               |               |               | Min                  | Max    | Mean   |               |
| Kadjina                                                        | 2             | ✓             | 2                             | <0.05                | <0.05 | <0.05 | ✓             | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Munthamar                                                      | 2             | ✓             | 2                             | <0.05                | 0.4   | 0.4   | ✓             | 1             | ✓             | 2             | 0.002                | 0.002  | 0.002  | ✓             |

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| Table 8 Aesthetic (non-health related) variables - non-drinking water supplied |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|--------------------------------------------------------------------------------|-----------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Kimberley                                                                   | Alkalinity (as CaCO3) |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community                                                                      | Samples taken         | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                |                       | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Kadjina                                                                        | 2                     | 53                   | 62  | 57.5 | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 17                   | 18  | 18   | ✓             | 2             | 55                   | 63  | 59   | ✓             |
| Munthamar                                                                      | 2                     | 250                  | 310 | 280  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 17                   | 18  | 18   | ✓             | 2             | 140                  | 160 | 150  | ✓             |

(18) No guideline value available as per ADWG 2011.

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| Table 9 Aesthetic (non-health related) variables - non-drinking water supplied |               |                      |      |      |               |               |                      |       |       |               |               |                  |      |      |               |               |                      |     |      |               |
|--------------------------------------------------------------------------------|---------------|----------------------|------|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|------------------|------|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Kimberley                                                                   | Iron          |                      |      |      |               | Manganese     |                      |       |       |               | pH            |                  |      |      |               | Silica        |                      |     |      |               |
| Community                                                                      | Samples taken | Concentration (mg/L) |      |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Value (pH units) |      |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                |               | Min                  | Max  | Mean |               |               | Min                  | Max   | Mean  |               |               | Min              | Max  | Mean |               |               | Min                  | Max | Mean |               |
| Kadjina                                                                        | 12            | 1.00                 | 2.90 | 1.83 | (21)          | 12            | 0.130                | 0.410 | 0.238 | (23)          | 2             | 6.90             | 7.10 | 7.00 | ✓             | 2             | 27                   | 49  | 38   | ✓             |
| Munthamar                                                                      | 12            | 0.04                 | 1.90 | 0.33 | (21)          | 12            | 0.036                | 0.061 | 0.044 | ✓             | 2             | 7.30             | 7.70 | 7.50 | ✓             | 2             | 36                   | 37  | 37   | ✓             |

(21) Elevated iron is a naturally occurring characteristic of the source supplying this community.

(23) Manganese is a naturally occurring characteristic of the source supplying this community. It can accumulate in tanks and pipes and resuspend during periods of rapid changes to water flow. This community has the potential to exceed the health guideline value, additional water (bottled water) is provided for drinking due to elevated turbidity.

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|              | Table 10   Aesthetic (non-health related) variables - non-drinking water supplied |                      |     |      |               |               |                      |     |      |               |                        |                      |     |      |               |               |             |     |      |               |               |             |      |      |               |
|--------------|-----------------------------------------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|-----|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|------|------|---------------|
| AC Kimberley | Sodium                                                                            |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |     |      |               | True Colour   |             |     |      |               | Turbidity     |             |      |      |               |
| Community    | Samples taken                                                                     | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |     |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |      |      | Guideline met |
|              |                                                                                   | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max  | Mean |               |
| Kadjina      | 2                                                                                 | 12                   | 14  | 13   | ✓             | 2             | 16                   | 17  | 17   | ✓             | 2                      | 120                  | 190 | 155  | ✓             | 2             | <5          | 6   | 6    | ✓             | 12            | 0.9         | 14.0 | 2.4  | (31)          |
| Munthamar    | 2                                                                                 | 45                   | 46  | 46   | ✓             | 2             | 2.2                  | 2.2 | 2.2  | ✓             | 2                      | 300                  | 310 | 305  | ✓             | 2             | <5          | <5  | <5   | ✓             | 11            | 0.4         | 4.2  | 1.6  | (31)          |

(31) Elevated turbidity is due to naturally occurring iron which is characteristic of the source supplying this community. An ongoing water quality advisory, to boil all water prior to drinking and food preparation and avoid getting water up the nose is in place (refer to *Water quality advisories - ongoing*, page 29). Additional water (bottled water) is also supplied for drinking and food preparation for the whole community.

Pilbara and Mid West communities receiving additional water for drinking and food preparation for the whole community are:

- Burringurrah – bottled water for uranium above the ADWG health guideline value.
  - Kiwirrkurra – bottled water for fluoride above the ADWG health guideline value.
  - Pia Wadjari – bottled water for uranium above the ADWG health guideline value.
- Refer to tables 16 to 20 for their reticulated non-drinking water quality.

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| Table 11 Health related variables |               |                      |               |                 |                        |                                     |                 |               |                      |      |      |               |               |               |
|-----------------------------------|---------------|----------------------|---------------|-----------------|------------------------|-------------------------------------|-----------------|---------------|----------------------|------|------|---------------|---------------|---------------|
| AC Pilbara - Mid West             | E. coli       |                      |               |                 | Thermophilic Naegleria |                                     |                 | Fluoride      |                      |      |      | Metals        |               |               |
| Community                         | Samples taken | Samples >0 cfu/100mL | Max cfu/100mL | Requirement met | Samples taken          | Samples with Thermophilic Naegleria | Requirement met | Samples taken | Concentration (mg/L) |      |      | Guideline met | Samples taken | Guideline met |
|                                   |               |                      |               |                 |                        |                                     |                 |               | Min                  | Max  | Mean |               |               |               |
| Barrel Well                       | 28            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | <0.1                 | <0.1 | <0.1 | ✓             | 3             | ✓             |
| Cheeditha                         | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 3             | 0.8                  | 1.1  | 1.0  | ✓             | 3             | ✓             |
| Innawonga                         | 26            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 3             | 0.7                  | 0.9  | 0.8  | ✓             | 3             | ✓             |
| Jigalong                          | 20            | 0                    | 0             | ✓               | 20                     | 0                                   | ✓               | 2             | 0.3                  | 0.4  | 0.4  | ✓             | 2             | ✓             |
| Jinparinya                        | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.5                  | 0.5  | 0.5  | ✓             | 2             | ✓             |
| Karalundi                         | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 4             | <0.1                 | <0.1 | <0.1 | ✓             | 4             | ✓             |
| Kunawarritji                      | 22            | 0                    | 0             | ✓               | 22                     | 0                                   | ✓               | 11            | 1.2                  | 1.6  | 1.4  | (8)           | 2             | ✓             |
| Kutkabubba                        | 26            | 0                    | 0             | ✓               | 26                     | 1                                   | (4)             | 2             | 0.4                  | 0.4  | 0.4  | ✓             | 2             | ✓             |
| Marta Marta                       | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 3             | 0.4                  | 0.5  | 0.5  | ✓             | 3             | ✓             |
| Ngurawaana                        | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 1.1                  | 1.1  | 1.1  | ✓             | 2             | ✓             |
| Parnngurr                         | 20            | 0                    | 0             | ✓               | 20                     | 0                                   | ✓               | 10            | 0.5                  | 1.4  | 0.9  | ✓             | 2             | ✓             |
| Punju Ngamal                      | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.5                  | 0.6  | 0.6  | ✓             | 2             | ✓             |
| Punmu                             | 22            | 0                    | 0             | ✓               | 22                     | 0                                   | ✓               | 2             | 0.5                  | 0.6  | 0.6  | ✓             | 2             | ✓             |
| Wakathuni                         | 30            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 3             | 0.6                  | 0.7  | 0.6  | ✓             | 3             | ✓             |
| Wandanooka                        | 25            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.5                  | 0.6  | 0.6  | ✓             | 2             | ✓             |
| Warralong                         | 26            | 0                    | 0             | ✓               | 26                     | 0                                   | ✓               | 3             | 0.8                  | 1.5  | 1.0  | ✓             | 3             | ✓             |
| Yandeyarra                        | 22            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.9                  | 1.0  | 1.0  | ✓             | 2             | ✓             |
| Youngaleena                       | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.7                  | 0.7  | 0.7  | ✓             | 2             | ✓             |
| Yulga Jinna                       | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.5                  | 0.6  | 0.6  | ✓             | 2             | ✓             |

(4) Thermophilic *Naegleria* detection (not *Naegleria fowleri*) - response protocols were implemented in accordance with DoH requirements, including issuing a temporary public advisory when required (refer to *Water quality advisories - temporary*, page 28).

(8) Non-compliance associated with the health guideline value of fluoride, a naturally occurring characteristic of the source supplying this community. Under normal operating conditions fluoride is maintained below the guideline value. An extreme increase in water consumption in the community can cause a temporary fluoride spike above the guideline value. Actions, such as leak repairs, to immediately reduce the water flow restores the fluoride level to below the guideline value.

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|                       | Table 12    Health related variables |                      |      |      |               |               |               |                 |                      |       |       |               |               |                      |        |        |               |
|-----------------------|--------------------------------------|----------------------|------|------|---------------|---------------|---------------|-----------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Pilbara - Mid West | Nitrate (as NO <sub>3</sub> )        |                      |      |      |               | Radiological  |               | Trihalomethanes |                      |       |       |               | Uranium       |                      |        |        |               |
| Community             | Samples taken                        | Concentration (mg/L) |      |      | Guideline met | Samples taken | Guideline Met | Samples taken   | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met |
|                       |                                      | Min                  | Max  | Mean |               |               |               |                 | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |
| Barrel Well           | 2                                    | 0                    | 0    | 0    | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Cheeditha             | 3                                    | 5.7                  | 7.0  | 6.2  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Innawonga             | 3                                    | 14.1                 | 20.2 | 17.6 | ✓             | 1             | ✓             | 8               | 0.006                | 0.110 | 0.040 | ✓             | 3             | 0.002                | 0.003  | 0.002  | ✓             |
| Jigalong              | 10                                   | 32.6                 | 40.0 | 36.5 | (9)           | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Jinparinya            | 2                                    | 3.5                  | 4.0  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.005                | 0.005  | 0.005  | ✓             |
| Karalundi             | 4                                    | 0.9                  | 1.8  | 1.3  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 4             | <0.001               | <0.001 | <0.001 | ✓             |
| Kunawarritji          | 11                                   | 52.8                 | 66.0 | 55.9 | (12)          | 0             | (1)           | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Kutkabubba            | 12                                   | 40.0                 | 66.0 | 54.1 | (12)          | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Marta Marta           | 3                                    | 3.5                  | 3.5  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 3             | 0.005                | 0.005  | 0.005  | ✓             |
| Ngurawaana            | 2                                    | 4.0                  | 5.7  | 4.8  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.001                | 0.002  | 0.002  | ✓             |
| Parngurr              | 4                                    | 28.2                 | 39.2 | 33.0 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 10            | 0.004                | 0.023  | 0.006  | (17)          |
| Punju Ngamal          | 2                                    | 3.5                  | 4.0  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.005                | 0.005  | 0.005  | ✓             |
| Punmu                 | 2                                    | 3.5                  | 3.5  | 3.5  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Wakathuni             | 3                                    | 11.9                 | 12.3 | 12.3 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 3             | 0.007                | 0.008  | 0.008  | ✓             |
| Wandanooka            | 12                                   | 35.6                 | 38.3 | 37.0 | (10)          | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Warralong             | 3                                    | 0.44                 | 0.44 | 0.44 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 3             | 0.002                | 0.002  | 0.002  | ✓             |
| Yandeyarra            | 2                                    | 7.9                  | 9.2  | 8.8  | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 11            | <0.001               | 0.006  | 0.001  | ✓             |
| Youngaleena           | 2                                    | 19.4                 | 19.8 | 19.8 | ✓             | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.001                | 0.001  | 0.001  | ✓             |
| Yulga Jinna           | 12                                   | 34.8                 | 48.4 | 40.0 | (10)          | 1             | ✓             | 0               | -                    | -     | -     | (15)          | 2             | 0.003                | 0.004  | 0.004  | ✓             |

(1) No samples required in this 12-month period. (refer to *Appendix B - list of sampling parameters*, page 34)

(9) Drinking water is treated to reduce nitrate, a naturally occurring characteristic of the source supplying this community and has been compliant in sampling. As a precaution additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(10) Drinking water is compliant but approaching the infant health guideline value for nitrate, a naturally occurring characteristic of the source supplying this community. As a precaution additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(12) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(15) Trihalomethanes (THM) are a disinfection by-product (refer to *Understanding water quality test results - Trihalomethanes*, page 23). In agreement with DoH, no sampling is currently required if the THM formation risk is low.

(17) This source is treated by RO to reduce uranium, a naturally occurring characteristic of the source supplying this community. A non-compliance associated with the health guideline value of uranium followed a temporary fault in the RO system. Response protocols were implemented and the issue was rapidly resolved.



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| Table 13 Aesthetic (non-health related) variables |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|---------------------------------------------------|-----------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Pilbara - Mid West                             |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
| Community                                         | Alkalinity (as CaCO3) |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
|                                                   | Samples taken         | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                   |                       | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Barrel Well                                       | 2                     | 20                   | 43  | 32   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 21                   | 32  | 27   | ✓             | 2             | 12                   | 27  | 20   | ✓             |
| Cheeditha                                         | 3                     | 220                  | 230 | 227  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 78                   | 110 | 96   | ✓             | 3             | 260                  | 260 | 260  | (20)          |
| Innawonga                                         | 3                     | 530                  | 560 | 543  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 140                  | 290 | 210  | ✓             | 3             | 460                  | 620 | 520  | (20)          |
| Jigalong                                          | 2                     | 96                   | 100 | 98   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 45                   | 49  | 47   | ✓             | 2             | 130                  | 130 | 130  | ✓             |
| Jinparinya                                        | 2                     | 220                  | 220 | 220  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 340                  | 360 | 350  | (19)          | 2             | 360                  | 400 | 380  | (20)          |
| Karalundi                                         | 4                     | <5                   | 7.7 | 6.0  | (18)          | 4             | <0.05                | <0.05 | <0.05 | ✓             | 4             | <5                   | <5  | <5   | ✓             | 4             | <5                   | <5  | <5   | ✓             |
| Kunawarritji                                      | 2                     | 150                  | 150 | 150  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 250                  | 260 | 255  | (19)          | 2             | 350                  | 370 | 360  | (20)          |
| Kutkabubba                                        | 2                     | 160                  | 160 | 160  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 61                   | 72  | 67   | ✓             | 2             | 210                  | 230 | 220  | (20)          |
| Marta Marta                                       | 3                     | 220                  | 220 | 220  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 320                  | 350 | 337  | (19)          | 3             | 380                  | 400 | 390  | (20)          |
| Ngurawaana                                        | 2                     | 420                  | 470 | 445  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 80                   | 120 | 100  | ✓             | 2             | 330                  | 390 | 360  | (20)          |
| Parngurr                                          | 2                     | 210                  | 220 | 215  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 92                   | 94  | 93   | ✓             | 2             | 150                  | 150 | 150  | ✓             |
| Punju Ngamal                                      | 2                     | 210                  | 210 | 210  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 340                  | 350 | 345  | (19)          | 2             | 360                  | 400 | 380  | (20)          |
| Punmu                                             | 2                     | 250                  | 250 | 250  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 200                  | 230 | 215  | ✓             | 2             | 70                   | 72  | 71   | ✓             |
| Wakathuni                                         | 3                     | 500                  | 550 | 520  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 370                  | 420 | 390  | (19)          | 3             | 850                  | 880 | 870  | (20)          |
| Wandanooka                                        | 2                     | 59                   | 60  | 60   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 550                  | 620 | 585  | (19)          | 2             | 79                   | 110 | 95   | ✓             |
| Warralong                                         | 3                     | 250                  | 290 | 270  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 44                   | 96  | 75   | ✓             | 3             | 150                  | 200 | 180  | ✓             |
| Yandeyarra                                        | 2                     | 340                  | 350 | 345  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 150                  | 180 | 165  | ✓             | 2             | 210                  | 240 | 225  | (20)          |
| Youngaleena                                       | 2                     | 220                  | 230 | 225  | (18)          | 2             | <0.05                | 0.180 | 0.012 | ✓             | 2             | 74                   | 89  | 82   | ✓             | 2             | 300                  | 310 | 305  | (20)          |
| Yulga Jinna                                       | 2                     | 240                  | 260 | 250  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 180                  | 210 | 195  | ✓             | 2             | 280                  | 330 | 305  | (20)          |

(18) No guideline value available as per ADWG 2011.  
 (19) Elevated chloride is characteristic of the source supplying this community.  
 (20) Elevated hardness is characteristic of the source supplying this community.



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|                       | Table 14    Aesthetic (non-health related) variables |                      |       |       |               |               |                      |        |        |               |               |                  |      |      |               |               |                      |     |      |               |
|-----------------------|------------------------------------------------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|------|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Pilbara - Mid West | Iron                                                 |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |      |      |               | Silica        |                      |     |      |               |
| Community             | Samples taken                                        | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |      |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                       |                                                      | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max  | Mean |               |               | Min                  | Max | Mean |               |
| Barrel Well           | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.10             | 6.50 | 6.30 | (25)          | 2             | 0.9                  | 1.6 | 1.3  | ✓             |
| Cheeditha             | 3                                                    | <0.01                | <0.01 | <0.01 | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 7.60             | 8.30 | 7.97 | ✓             | 3             | 52                   | 56  | 54   | ✓             |
| Innawonga             | 3                                                    | <0.01                | 0.02  | 0.02  | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 8.10             | 8.30 | 8.20 | ✓             | 3             | 63                   | 68  | 65   | ✓             |
| Jigalong              | 2                                                    | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.20             | 7.80 | 7.50 | ✓             | 2             | 13                   | 14  | 14   | ✓             |
| Jinparinya            | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.00             | 8.20 | 8.10 | ✓             | 2             | 48                   | 49  | 49   | ✓             |
| Karalundi             | 4                                                    | <0.01                | 0.03  | 0.02  | ✓             | 4             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 5.30             | 6.20 | 5.78 | (25)          | 4             | 0.4                  | 0.6 | 0.5  | ✓             |
| Kunawarritji          | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.70             | 7.80 | 7.75 | ✓             | 2             | 75                   | 76  | 76   | ✓             |
| Kutkabubba            | 2                                                    | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.80             | 8.00 | 7.90 | ✓             | 2             | 65                   | 71  | 68   | ✓             |
| Marta Marta           | 3                                                    | <0.01                | <0.01 | <0.01 | ✓             | 3             | <0.005               | 0.006  | 0.006  | ✓             | 3             | 7.60             | 8.40 | 8.03 | ✓             | 3             | 48                   | 48  | 48   | ✓             |
| Ngurawaana            | 2                                                    | <0.01                | 0.04  | 0.03  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.60             | 8.10 | 7.85 | ✓             | 2             | 38                   | 42  | 40   | ✓             |
| Parnngurr             | 2                                                    | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.10             | 8.10 | 8.10 | ✓             | 2             | 54                   | 56  | 55   | ✓             |
| Punju Ngamal          | 2                                                    | 0.01                 | 0.02  | 0.015 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.00             | 8.30 | 8.15 | ✓             | 2             | 48                   | 49  | 49   | ✓             |
| Punmu                 | 2                                                    | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.60             | 8.10 | 7.85 | ✓             | 2             | 22                   | 22  | 22   | ✓             |
| Wakathuni             | 3                                                    | <0.01                | <0.01 | <0.01 | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 7.70             | 8.20 | 7.97 | ✓             | 3             | 52                   | 53  | 53   | ✓             |
| Wandanooka            | 2                                                    | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.50             | 6.60 | 6.55 | ✓             | 2             | 110                  | 130 | 120  | (26)          |
| Warralong             | 3                                                    | <0.01                | <0.01 | <0.01 | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 7.90             | 8.40 | 8.20 | ✓             | 3             | 32                   | 36  | 34   | ✓             |
| Yandeyarra            | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.30             | 8.50 | 8.40 | ✓             | 2             | 68                   | 74  | 71   | ✓             |
| Youngaleena           | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.70             | 7.80 | 7.75 | ✓             | 2             | 86                   | 90  | 88   | (26)          |
| Yulga Jinna           | 2                                                    | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.10             | 8.20 | 8.15 | ✓             | 2             | 27                   | 28  | 28   | ✓             |

(25) Low pH is a result of the reverse osmosis treatment and is not a health concern.  
 (26) Silica is a naturally occurring characteristic of the source supplying this community.



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|                       | Table 15    Aesthetic (non-health related) variables |                      |     |      |               |               |                      |     |      |               |                        |                      |      |      |               |               |             |     |      |               |               |             |     |      |               |
|-----------------------|------------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|-----|------|---------------|
| AC Pilbara - Mid West | Sodium                                               |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |     |      |               |
| Community             | Samples taken                                        | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |     |      | Guideline met |
|                       |                                                      | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max | Mean |               |
| Barrel Well           | 2                                                    | 17                   | 25  | 21   | ✓             | 2             | <1                   | 4.2 | 2.6  | ✓             | 2                      | 67                   | 110  | 88   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.3 | 0.2  | ✓             |
| Cheeditha             | 3                                                    | 53                   | 54  | 54   | ✓             | 3             | 44                   | 48  | 47   | ✓             | 3                      | 460                  | 470  | 467  | ✓             | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.2 | 0.1  | ✓             |
| Innawonga             | 3                                                    | 180                  | 200 | 187  | (27)          | 3             | 160                  | 220 | 187  | ✓             | 3                      | 930                  | 1200 | 1043 | (29)          | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.2 | 0.2  | ✓             |
| Jigalong              | 2                                                    | 33                   | 46  | 40   | ✓             | 2             | 37                   | 37  | 37   | ✓             | 2                      | 290                  | 290  | 290  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.3         | 0.4 | 0.4  | ✓             |
| Jinparinya            | 2                                                    | 140                  | 170 | 155  | ✓             | 2             | 66                   | 66  | 66   | ✓             | 2                      | 920                  | 930  | 925  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.4 | 0.3  | ✓             |
| Karalundi             | 4                                                    | 2.9                  | 5.6 | 3.9  | ✓             | 4             | <1                   | <1  | <1   | ✓             | 4                      | 12                   | 21   | 15   | ✓             | 4             | <5          | <5  | <5   | ✓             | 4             | <0.1        | 0.4 | 0.2  | ✓             |
| Kunawarritji          | 2                                                    | 130                  | 140 | 135  | ✓             | 2             | 180                  | 180 | 180  | ✓             | 2                      | 870                  | 900  | 885  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.5 | 0.3  | ✓             |
| Kutkabubba            | 2                                                    | 43                   | 50  | 47   | ✓             | 2             | 36                   | 37  | 37   | ✓             | 2                      | 400                  | 410  | 405  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.3 | 0.2  | ✓             |
| Marta Marta           | 3                                                    | 140                  | 180 | 163  | ✓             | 3             | 64                   | 65  | 64   | ✓             | 3                      | 910                  | 930  | 917  | (29)          | 3             | <5          | <5  | <5   | ✓             | 3             | 0.2         | 0.2 | 0.2  | ✓             |
| Ngurawaana            | 2                                                    | 87                   | 100 | 94   | ✓             | 2             | 31                   | 36  | 34   | ✓             | 2                      | 590                  | 700  | 645  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1 | 0.1  | ✓             |
| Parnngurr             | 2                                                    | 82                   | 83  | 83   | ✓             | 2             | 22                   | 23  | 23   | ✓             | 2                      | 440                  | 440  | 440  | ✓             | 2             | <5          | 5.6 | 5.3  | ✓             | 2             | <0.1        | 0.4 | 0.3  | ✓             |
| Punju Ngamal          | 2                                                    | 130                  | 170 | 150  | ✓             | 2             | 65                   | 66  | 66   | ✓             | 2                      | 920                  | 920  | 920  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.2 | 0.2  | ✓             |
| Punmu                 | 2                                                    | 260                  | 260 | 260  | (27)          | 2             | 140                  | 140 | 140  | ✓             | 2                      | 820                  | 830  | 830  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.5 | 0.4  | ✓             |
| Wakathuni             | 3                                                    | 160                  | 170 | 167  | ✓             | 3             | 250                  | 260 | 257  | (28)          | 3                      | 1400                 | 1400 | 1400 | (29)          | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.5 | 0.3  | ✓             |
| Wandanooka            | 2                                                    | 370                  | 390 | 380  | (27)          | 2             | 49                   | 60  | 55   | ✓             | 2                      | 1200                 | 1400 | 1300 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.1 | 0.1  | ✓             |
| Warralong             | 3                                                    | 72                   | 110 | 87   | ✓             | 3             | 16                   | 24  | 20   | ✓             | 3                      | 340                  | 480  | 423  | ✓             | 3             | <5          | <5  | <5   | ✓             | 3             | 0.1         | 0.2 | 0.1  | ✓             |
| Yandeyarra            | 2                                                    | 140                  | 150 | 145  | ✓             | 2             | 20                   | 32  | 26   | ✓             | 2                      | 650                  | 660  | 660  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.1 | 0.1  | ✓             |
| Youngaleena           | 2                                                    | 35                   | 40  | 38   | ✓             | 2             | 60                   | 64  | 62   | ✓             | 2                      | 460                  | 460  | 460  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.1 | 0.1  | ✓             |
| Yulga Jinna           | 2                                                    | 140                  | 160 | 150  | ✓             | 2             | 130                  | 140 | 135  | ✓             | 2                      | 750                  | 800  | 775  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.2 | 0.2  | ✓             |

(27) Elevated sodium is characteristic of the source supplying this community.  
 (28) Elevated sulfate is a characteristic of the source supplying this community.  
 (29) Elevated TDS is characteristic of the source supplying this community.



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|                       | Table 16    Aesthetic (non-health related) variables - non-drinking water supplied |                      |               |                 |                        |                                     |                 |               |                      |     |      |               |
|-----------------------|------------------------------------------------------------------------------------|----------------------|---------------|-----------------|------------------------|-------------------------------------|-----------------|---------------|----------------------|-----|------|---------------|
| AC Pilbara - Mid West | E. coli                                                                            |                      |               |                 | Thermophilic Naegleria |                                     |                 | Fluoride      |                      |     |      |               |
| Community             | Samples Taken                                                                      | Samples >0 cfu/100mL | Max cfu/100mL | Requirement Met | Samples Taken          | Samples with Thermophilic Naegleria | Requirement Met | Samples Taken | Concentration (mg/L) |     |      | Guideline Met |
|                       |                                                                                    |                      |               |                 |                        |                                     |                 |               | Min                  | Max | Mean |               |
| Burringurrah          | 18                                                                                 | 0                    | 0             | ✓               | 20                     | 0                                   | ✓               | 9             | 0.8                  | 1.2 | 1.0  | ✓             |
| Kiwirrkurra **        | 22                                                                                 | 0                    | 0             | ✓               | 22                     | 0                                   | ✓               | 11            | 0.7                  | 1.1 | 1.0  | ✓             |
| Pia Wadjari           | 26                                                                                 | 0                    | 0             | ✓               | 23                     | 0                                   | ✓               | 2             | 0.8                  | 1.0 | 0.9  | ✓             |

\*\*In 2023 an RO treatment unit was commissioned to reduce nitrate and fluoride in the source supplying this community. Water Corporation has worked closely with Pilbara Meta Maya to ensure treatment is fully effective. Results from water quality monitoring have demonstrated that fluoride and nitrate are consistently below the adult and infant health guidelines and Water Corporation aims to lift the current whole of community water quality advisory in 2026. Until then additional water (bottled water) is supplied for the whole community for drinking and food preparation (refer to *Improving drinking water quality*, page 11, and *Water quality advisories - ongoing*, page 29).

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|                       | Table 17   Aesthetic (non-health related) variables - non-drinking water supplied |               |                               |                      |      |      |               |               |               |               |                      |       |       |               |
|-----------------------|-----------------------------------------------------------------------------------|---------------|-------------------------------|----------------------|------|------|---------------|---------------|---------------|---------------|----------------------|-------|-------|---------------|
| AC Pilbara - Mid West | Metals                                                                            |               | Nitrate (as NO <sub>3</sub> ) |                      |      |      |               | Radiological  |               | Uranium       |                      |       |       |               |
| Community             | Samples taken                                                                     | Guideline met | Samples taken                 | Concentration (mg/L) |      |      | Guideline met | Samples taken | Reference met | Samples taken | Concentration (mg/L) |       |       | Guideline met |
|                       |                                                                                   |               |                               | Min                  | Max  | Mean |               |               |               |               | Min                  | Max   | Mean  |               |
| Burringurrah          | 2                                                                                 | ✓             | 10                            | 57.2                 | 79.2 | 62.9 | (13)          | 1             | ✓             | 10            | 0.018                | 0.030 | 0.023 | (16)          |
| Kiwirrkurra **        | 2                                                                                 | ✓             | 11                            | 11.9                 | 21.1 | 17.2 | ✓             | 1             | ✓             | 11            | 0.001                | 0.002 | 0.001 | ✓             |
| Pia Wadjari           | 2                                                                                 | ✓             | 12                            | 37.4                 | 41.4 | 40.0 | ✓             | 4             | ✓             | 12            | 0.014                | 0.028 | 0.023 | (16)          |

(13) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied to the whole community for elevated uranium or fluoride.

(16) Non-compliance associated with the health guideline value of uranium, a naturally occurring characteristic of the source supplying this locality. Additional water (bottled water) is supplied for the whole community for drinking and food preparation.

\*\*In 2023 an RO treatment unit was commissioned to reduce nitrate and fluoride in the source supplying this community. Water Corporation has worked closely with Pilbara Meta Maya to ensure treatment is fully effective. Results from water quality monitoring have demonstrated that fluoride and nitrate are consistently below the adult and infant health guidelines and Water Corporation aims to lift the current whole of community water quality advisory in 2026. Until then additional water (bottled water) is supplied for the whole community for drinking and food preparation (refer to *Improving drinking water quality*, page 11, and *Water quality advisories - ongoing*, page 29).



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| Table 18 Aesthetic (non-health related) variables - non-drinking water supplied |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|---------------------------------------------------------------------------------|-----------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Pilbara - Mid West                                                           | Alkalinity (as CaCO3) |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community                                                                       | Samples taken         | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples Taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                 |                       | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Burringurrah                                                                    | 2                     | 190                  | 210 | 200  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 360                  | 360 | 360  | (19)          | 2             | 390                  | 430 | 410  | (20)          |
| Kiwirrkurra                                                                     | 2                     | 100                  | 140 | 120  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 48                   | 61  | 55   | ✓             | 2             | 67                   | 69  | 68   | (20)          |
| Pia Wadjari                                                                     | 2                     | 94                   | 98  | 96   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 400                  | 410 | 405  | (19)          | 2             | 150                  | 170 | 160  | ✓             |

(18) No guideline value available as per ADWG 2011.

(19) Elevated chloride is characteristic of the source supplying this community.

(20) Elevated hardness is characteristic of the source supplying this community.

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| Table 19 Aesthetic (non-health related) variables - non-drinking water supplied |               |                      |       |       |               |               |                      |        |        |               |               |                  |      |      |               |               |                      |     |      |               |
|---------------------------------------------------------------------------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|------|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Pilbara - Mid West                                                           | Iron          |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |      |      |               | Silica        |                      |     |      |               |
| Community                                                                       | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |      |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                 |               | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max  | Mean |               |               | Min                  | Max | Mean |               |
| Burringurrah                                                                    | 2             | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.7              | 7.7  | 7.7  | ✓             | 2             | 77                   | 77  | 77   | ✓             |
| Kiwirrkurra                                                                     | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.80             | 7.80 | 7.3  | ✓             | 2             | 29                   | 54  | 42   | ✓             |
| Pia Wadjari                                                                     | 2             | <0.01                | 0.05  | 0.03  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.4              | 7.7  | 7.6  | ✓             | 2             | 55                   | 55  | 55   | ✓             |

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|                       | Table 20   Aesthetic (non-health related) variables - non-drinking water supplied |                      |     |      |               |               |                      |     |      |               |                        |                      |      |      |               |               |             |     |      |               |               |             |     |      |               |
|-----------------------|-----------------------------------------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|-----|------|---------------|
| AC Pilbara - Mid West | Sodium                                                                            |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |     |      |               |
| Community             | Samples taken                                                                     | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |     |      | Guideline met |
|                       |                                                                                   | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max | Mean |               |
| Burringurrah          | 2                                                                                 | 170                  | 200 | 185  | (27)          | 2             | 130                  | 130 | 130  | ✓             | 2                      | 1000                 | 1000 | 1000 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.1 | 0.1  | ✓             |
| Kiwirrkurra           | 2                                                                                 | 46                   | 77  | 62   | ✓             | 2             | 16                   | 18  | 17   | ✓             | 2                      | 240                  | 300  | 270  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2 | 0.2  | ✓             |
| Pia Wadjari           | 2                                                                                 | 260                  | 260 | 260  | (27)          | 2             | 120                  | 120 | 120  | ✓             | 2                      | 1000                 | 1000 | 1000 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.2 | 0.2  | ✓             |

(27) Elevated sodium is characteristic of the source supplying this community.

(29) Elevated TDS is characteristic of the source supplying this community.

Goldfields Central communities receiving additional water for drinking and food preparation for the whole community:

- Tjukurla – bottled water for fluoride above the ADWG health guideline value.  
Refer to tables 26 – 30 for its reticulated non- drinking water quality.

Goldfields Central communities with dual water supply systems are Mt Margeret, Patjarr, and Tjuntjuntjara.

Refer to tables 21 – 25 for their reticulated drinking water quality and tables 26 – 30 for their reticulated non-drinking water quality.

| Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025 |               |                      |               |                 |                        |                                     |                 |               |                      |     |      |               |
|--------------------------------------------------------------------|---------------|----------------------|---------------|-----------------|------------------------|-------------------------------------|-----------------|---------------|----------------------|-----|------|---------------|
| Table 21 Health related variables                                  |               |                      |               |                 |                        |                                     |                 |               |                      |     |      |               |
| AC Goldfields Central                                              | E. coli       |                      |               |                 | Thermophilic Naegleria |                                     |                 | Fluoride      |                      |     |      |               |
| Community                                                          | Samples taken | Samples >0 cfu/100mL | Max cfu/100mL | Requirement Met | Samples Taken          | Samples with Thermophilic Naegleria | Requirement Met | Samples Taken | Concentration (mg/L) |     |      | Guideline Met |
|                                                                    |               |                      |               |                 |                        |                                     |                 |               | Min                  | Max | Mean |               |
| Blackstone                                                         | 24            | 0                    | 0             | ✓               | 23                     | 0                                   | ✓               | 3             | 0.4                  | 0.7 | 0.6  | ✓             |
| Cosmo Newberry                                                     | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.5                  | 0.5 | 0.5  | ✓             |
| Jameson                                                            | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.2                  | 0.3 | 0.3  | ✓             |
| *Mt Margaret                                                       | 24            | 0                    | 0             | ✓               | 23                     | 0                                   | ✓               | 2             | 0.3                  | 0.8 | 0.6  | ✓             |
| Mulga Queen                                                        | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.9                  | 1.0 | 1.0  | ✓             |
| *Patjarr                                                           | 22            | 0                    | 0             | ✓               | 20                     | 0                                   | ✓               | 13            | <0.1                 | 0.9 | 0.2  | ✓             |
| Tjirrkarli                                                         | 28            | 0                    | 0             | ✓               | 27                     | 2                                   | (4)             | 2             | 0.6                  | 0.7 | 0.7  | ✓             |
| *Tjuntjuntjara                                                     | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 13            | 0.45                 | 0.9 | 0.7  | ✓             |
| Wanarn                                                             | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 3             | 0.4                  | 0.5 | 0.4  | ✓             |
| Warakurna                                                          | 45            | 0                    | 0             | ✓               | 45                     | 0                                   | ✓               | 8             | 0.3                  | 0.6 | 0.5  | ✓             |
| Warburton                                                          | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.7                  | 0.9 | 0.8  | ✓             |
| Wingellina                                                         | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 2             | 0.7                  | 0.7 | 0.7  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. Non-drinking water is supplied to all other taps and is not intended for drinking.

(4) Thermophilic *Naegleria* detection (not *Naegleria fowleri*) - response protocols were implemented in accordance with DoH requirements, including issuing a temporary public advisory when required (refer to *Water quality advisories - temporary*, page 28).

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| Table 22 Health related variables |               |               |                  |                      |     |      |               |               |               |               |                      |        |        |               |
|-----------------------------------|---------------|---------------|------------------|----------------------|-----|------|---------------|---------------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Goldfields Central             | Metals        |               | Nitrate (as NO3) |                      |     |      |               | Radiological  |               | Uranium       |                      |        |        |               |
| Community                         | Samples Taken | Guideline Met | Samples Taken    | Concentration (mg/L) |     |      | Guideline Met | Samples Taken | Guideline Met | Samples Taken | Concentration (mg/L) |        |        | Guideline Met |
|                                   |               |               |                  | Min                  | Max | Mean |               |               |               |               | Min                  | Max    | Mean   |               |
| Blackstone                        | 3             | ✓             | 13               | 30                   | 66  | 37   | (12)          | 1             | ✓             | 3             | <0.001               | 0.004  | 0.002  | ✓             |
| Cosmo Newberry                    | 2             | ✓             | 13               | 25                   | 49  | 35   | (9)           | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Jameson                           | 2             | ✓             | 13               | 15                   | 71  | 43   | (12)          | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| *Mt Margaret                      | 2             | ✓             | 11               | 12                   | 19  | 14   | (9)           | 0             | (1)           | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Mulga Queen                       | 2             | ✓             | 13               | 35                   | 62  | 50   | (12)          | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| *Patjarr                          | 3             | ✓             | 13               | 3.6                  | 7.1 | 4.9  | (9)           | 0             | (1)           | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Tjirrkarli                        | 2             | ✓             | 13               | 17                   | 44  | 35   | ✓             | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| *Tjuntjuntjara                    | 6             | ✓             | 13               | 18                   | 80  | 43   | (12)          | 1             | ✓             | 13            | 0.005                | 0.010  | 0.007  | ✓             |
| Wanarn                            | 3             | ✓             | 14               | 41                   | 69  | 59   | (12)          | 3             | ✓             | 3             | <0.001               | <0.001 | <0.001 | ✓             |
| Warakurna                         | 8             | ✓             | 8                | 10                   | 17  | 12   | ✓             | 4             | ✓             | 8             | 0.001                | 0.004  | 0.003  | ✓             |
| Warburton                         | 2             | ✓             | 13               | 31                   | 75  | 54   | (12)          | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Wingellina                        | 2             | ✓             | 13               | 37                   | 66  | 55   | (12)          | 0             | ✓             | 2             | 0.003                | 0.003  | 0.003  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. Non-drinking water is supplied to all other taps and is not intended for drinking.

(1) No samples required in this 12-month period. (refer to Appendix B - list of sampling parameters, page 34).

(9) Drinking water is treated to reduce nitrate, a naturally occurring characteristic of the source supplying this community and has been compliant in sampling. As a precaution additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(12) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.



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| Table 23 Aesthetic (non-health related) variables |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|---------------------------------------------------|-----------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Goldfields Central                             | Alkalinity (as CaCO3) |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community                                         | Samples taken         | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                   |                       | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Blackstone                                        | 3                     | 380                  | 430 | 397  | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 83                   | 160 | 112  | ✓             | 3             | 330                  | 450 | 403  | (20)          |
| Cosmo Newberry                                    | 2                     | 41                   | 84  | 63   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 36                   | 97  | 67   | ✓             | 2             | 34                   | 71  | 53   | ✓             |
| Jameson                                           | 2                     | 68                   | 81  | 75   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 30                   | 40  | 35   | ✓             | 2             | 74                   | 83  | 79   | ✓             |
| *Mt Margaret                                      | 2                     | 9.9                  | 12  | 11   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 11                   | 20  | 16   | ✓             | 2             | <5                   | <5  | <5   | ✓             |
| Mulga Queen                                       | 2                     | 160                  | 170 | 165  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 110                  | 110 | 110  | ✓             | 2             | 110                  | 140 | 125  | ✓             |
| *Patjarr                                          | 3                     | 29                   | 36  | 32   | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 13                   | 26  | 20   | ✓             | 3             | 19                   | 23  | 21   | ✓             |
| Tjirrkarli                                        | 2                     | 48                   | 54  | 51   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 180                  | 180 | 180  | ✓             | 2             | 170                  | 180 | 175  | ✓             |
| *Tjuntjuntjara                                    | 6                     | 110                  | 150 | 132  | (18)          | 6             | <0.05                | <0.05 | <0.05 | ✓             | 6             | 130                  | 230 | 175  | ✓             | 6             | 150                  | 220 | 180  | ✓             |
| Wanarn                                            | 3                     | 60                   | 66  | 62   | (18)          | 3             | <0.05                | <0.05 | <0.05 | ✓             | 3             | 330                  | 360 | 343  | (19)          | 3             | 310                  | 390 | 350  | (20)          |
| Warakurna                                         | 8                     | 87                   | 100 | 95   | (18)          | 8             | <0.05                | <0.05 | <0.05 | ✓             | 8             | 260                  | 470 | 364  | (19)          | 8             | 190                  | 360 | 254  | (20)          |
| Warburton                                         | 2                     | 200                  | 200 | 200  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 170                  | 170 | 170  | ✓             | 2             | 260                  | 330 | 295  | (20)          |
| Wingellina                                        | 2                     | 320                  | 350 | 335  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 210                  | 210 | 210  | ✓             | 2             | 340                  | 390 | 365  | '(20)         |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. Non-drinking water is supplied to all other taps and is not intended for drinking.

(18) No guideline value available as per ADWG 2011.

(19) Elevated chloride is characteristic of the source supplying this community.

(20) Elevated hardness is characteristic of the source supplying this community.

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| Table 24 Aesthetic (non-health related) variables |               |                      |       |       |               |               |                      |        |        |               |               |                  |     |      |               |               |                      |     |      |               |
|---------------------------------------------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Goldfields Central                             | Iron          |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |     |      |               | Silica        |                      |     |      |               |
| Community                                         | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                   |               | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max | Mean |               |               | Min                  | Max | Mean |               |
| Blackstone                                        | 3             | <0.01                | 0.02  | 0.01  | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 7.9              | 8.4 | 8.1  | ✓             | 3             | 65                   | 74  | 69   | ✓             |
| Cosmo Newberry                                    | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.7              | 7.2 | 7.0  | ✓             | 2             | 9.6                  | 24  | 17   | ✓             |
| Jameson                                           | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.8              | 7.2 | 7.0  | ✓             | 2             | 15                   | 20  | 18   | ✓             |
| *Mt Margaret                                      | 2             | <0.01                | 0.01  | 0.01  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.3              | 6.6 | 6.5  | ✓             | 2             | 1.7                  | 2.1 | 1.9  | ✓             |
| Mulga Queen                                       | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | 0.006                | 0.006  | 0.006  | ✓             | 2             | 7.9              | 8.1 | 8.0  | ✓             | 2             | 30                   | 30  | 30   | ✓             |
| *Patjarr                                          | 3             | <0.01                | 0.02  | 0.01  | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 6.5              | 6.8 | 6.7  | ✓             | 3             | 0.9                  | 1.7 | 1.4  | ✓             |
| Tjirrkarli                                        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.2              | 6.7 | 6.5  | ✓             | 2             | 53                   | 54  | 54   | ✓             |
| *Tjuntjuntjara                                    | 6             | <0.01                | 0.02  | 0.01  | ✓             | 6             | <0.005               | <0.005 | <0.005 | ✓             | 6             | 7.1              | 8.0 | 7.5  | ✓             | 6             | 12                   | 17  | 15   | ✓             |
| Wanarn                                            | 3             | <0.01                | 0.03  | 0.02  | ✓             | 3             | <0.005               | <0.005 | <0.005 | ✓             | 3             | 6.8              | 7.1 | 6.9  | ✓             | 3             | 49                   | 50  | 49   | ✓             |
| Warakurna                                         | 8             | <0.01                | 0.08  | 0.02  | ✓             | 8             | <0.005               | <0.005 | <0.005 | ✓             | 8             | 6.6              | 7.5 | 6.9  | ✓             | 8             | 18                   | 20  | 19   | ✓             |
| Warburton                                         | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.9              | 8.2 | 8.1  | ✓             | 2             | 41                   | 45  | 43   | ✓             |
| Wingellina                                        | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 7.7              | 8.3 | 8.0  | ✓             | 2             | 64                   | 68  | 66   | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. Non-drinking water is supplied to all other taps and is not intended for drinking.

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Table 25 Aesthetic (non-health related) variables

| AC Goldfields Central | Sodium        |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |     |      |               |
|-----------------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|-----|------|---------------|
| Community             | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |     |      | Guideline met |
|                       |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max | Mean |               |
| Blackstone            | 3             | 56                   | 190 | 101  | ✓             | 3             | 32                   | 66  | 44   | ✓             | 3                      | 590                  | 790  | 663  | (28)          | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.2 | 0.2  | ✓             |
| Cosmo Newberry        | 2             | 45                   | 83  | 64   | ✓             | 2             | 13                   | 37  | 25   | ✓             | 2                      | 170                  | 380  | 275  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.2 | 0.2  | ✓             |
| Jameson               | 2             | 34                   | 37  | 36   | ✓             | 2             | 12                   | 17  | 15   | ✓             | 2                      | 190                  | 240  | 215  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2 | 0.2  | ✓             |
| *Mt Margaret          | 2             | 13                   | 21  | 17   | ✓             | 2             | <1                   | <1  | <1   | ✓             | 2                      | 45                   | 70   | 58   | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | 0.2 | 0.2  | ✓             |
| Mulga Queen           | 2             | 110                  | 120 | 115  | ✓             | 2             | 66                   | 72  | 69   | ✓             | 2                      | 520                  | 520  | 520  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.3 | 0.3  | ✓             |
| *Patjarr              | 3             | 13                   | 25  | 18   | ✓             | 3             | <1                   | 2.7 | 1.9  | ✓             | 3                      | 89                   | 110  | 100  | ✓             | 3             | <5          | <5  | <5   | ✓             | 3             | 0.1         | 0.2 | 0.2  | ✓             |
| Tjirrkarli            | 2             | 100                  | 110 | 105  | ✓             | 2             | 120                  | 140 | 130  | ✓             | 2                      | 570                  | 590  | 580  | ✓             | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2 | 0.2  | ✓             |
| *Tjuntjuntjara        | 6             | 120                  | 160 | 137  | ✓             | 6             | 62                   | 150 | 100  | ✓             | 6                      | 540                  | 720  | 638  | (28)          | 6             | <5          | <5  | <5   | ✓             | 6             | 0.2         | 0.6 | 0.3  | ✓             |
| Wanarn                | 3             | 130                  | 160 | 143  | ✓             | 3             | 150                  | 160 | 153  | ✓             | 3                      | 960                  | 980  | 970  | (28)          | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.1 | 0.1  | ✓             |
| Warakurna             | 8             | 150                  | 270 | 194  | (27)          | 8             | 120                  | 230 | 173  | ✓             | 8                      | 760                  | 1200 | 965  | (28)          | 8             | <5          | <5  | <5   | ✓             | 8             | <0.1        | 0.4 | 0.2  | ✓             |
| Warburton             | 2             | 80                   | 85  | 83   | ✓             | 2             | 65                   | 79  | 72   | ✓             | 2                      | 620                  | 650  | 635  | (28)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.2 | 0.2  | ✓             |
| Wingellina            | 2             | 150                  | 180 | 165  | ✓             | 2             | 110                  | 110 | 110  | ✓             | 2                      | 860                  | 880  | 870  | (28)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.1         | 0.2 | 0.2  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. Non-drinking water is supplied to all other taps and is not intended for drinking.

(27) Elevated sodium is characteristic of the source supplying this community.

(28) Elevated TDS is characteristic of the source supplying this community.



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| Table 26 Health related variables - non-drinking water supplied |               |                      |               |                 |                        |                                     |                 |               |                      |     |      |               |
|-----------------------------------------------------------------|---------------|----------------------|---------------|-----------------|------------------------|-------------------------------------|-----------------|---------------|----------------------|-----|------|---------------|
| AC Goldfields Central                                           | E. coli       |                      |               |                 | Thermophilic Naegleria |                                     |                 | Fluoride      |                      |     |      |               |
| Community                                                       | Samples taken | Samples >0 cfu/100mL | Max cfu/100mL | Requirement met | Samples taken          | Samples with Thermophilic Naegleria | Requirement met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                 |               |                      |               |                 |                        |                                     |                 |               | Min                  | Max | Mean |               |
| Mt Margaret *                                                   | 24            | 0                    | 0             | ✓               | 23                     | 0                                   | ✓               | 13            | 0.6                  | 0.9 | 0.7  | ✓             |
| Patjarr *                                                       | 24            | 0                    | 0             | ✓               | 22                     | 0                                   | ✓               | 12            | 0.9                  | 1.2 | 1.0  | ✓             |
| Tjukurla                                                        | 26            | 0                    | 0             | ✓               | 24                     | 1                                   | (4)             | 12            | 1.4                  | 1.9 | 1.5  | (6)           |
| Tjuntjuntjara *                                                 | 24            | 0                    | 0             | ✓               | 24                     | 0                                   | ✓               | 13            | 0.5                  | 1.0 | 0.8  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. This water is supplied to all other taps and is not intended for drinking.

(4) Thermophilic *Naegleria* detection (not *Naegleria fowleri*) - response protocols were implemented in accordance with DoH requirements, including issuing a temporary public advisory when required (refer to *Water quality advisories - temporary*, page 28)

6) Non-compliance associated with the health guideline value of fluoride, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for the whole community for drinking and food preparation.

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| Table 27 Health related variables - non-drinking water supplied |               |               |                  |                      |     |      |               |               |               |               |                      |        |        |               |
|-----------------------------------------------------------------|---------------|---------------|------------------|----------------------|-----|------|---------------|---------------|---------------|---------------|----------------------|--------|--------|---------------|
| AC Goldfields Central                                           | Metals        |               | Nitrate (as NO3) |                      |     |      |               | Radiological  |               | Uranium       |                      |        |        |               |
| Community                                                       | Samples taken | Guideline met | Samples taken    | Concentration (mg/L) |     |      | Guideline met | Samples taken | Reference met | Samples taken | Concentration (mg/L) |        |        | Guideline met |
|                                                                 |               |               |                  | Min                  | Max | Mean |               |               |               |               | Min                  | Max    | Mean   |               |
| Mt Margaret *                                                   | 2             | ✓             | 13               | 71                   | 120 | 89   | (14)          | 1             | ✓             | 2             | <0.001               | 0.001  | 0.001  | ✓             |
| Patjarr *                                                       | 2             | ✓             | 12               | 58                   | 80  | 73   | (12)          | 1             | ✓             | 2             | <0.001               | <0.001 | <0.001 | ✓             |
| Tjukurla                                                        | 4             | ✓             | 12               | 38                   | 53  | 42   | (13)          | 1             | ✓             | 4             | 0.003                | 0.004  | 0.004  | ✓             |
| Tjuntjuntjara *                                                 | 6             | ✓             | 13               | 18                   | 84  | 43   | (12)          | 1             | ✓             | 13            | 0.005                | 0.009  | 0.007  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. This water is supplied to all other taps and is not intended for drinking.

(12) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

(13) Non-compliance associated with the infant health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. Additional water (bottled water) is supplied to the whole community for elevated uranium or fluoride.

(14) Non-compliance associated with the infant and adult health guideline value of nitrate, a naturally occurring characteristic of the source supplying this community. This supply is not intended for drinking. Water going to a tap in the kitchen is treated to reduce this nitrate, however, additional water (bottled water) is supplied for formula preparation for infants under 3 months of age.

**Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025**

| Table 28 Aesthetic (non-health related) variables - non-drinking water supplied |                       |                      |     |      |               |               |                      |       |       |               |               |                      |     |      |               |               |                      |     |      |               |
|---------------------------------------------------------------------------------|-----------------------|----------------------|-----|------|---------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Goldfields Central                                                           | Alkalinity (as CaCO3) |                      |     |      |               | Aluminium     |                      |       |       |               | Chloride      |                      |     |      |               | Hardness      |                      |     |      |               |
| Community                                                                       | Samples taken         | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                 |                       | Min                  | Max | Mean |               |               | Min                  | Max   | Mean  |               |               | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |
| Mt Margaret *                                                                   | 2                     | 230                  | 230 | 230  | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 2             | 260                  | 350 | 305  | (19)          | 2             | 260                  | 320 | 290  | (20)          |
| Patjarr *                                                                       | 2                     | 66                   | 79  | 73   | (18)          | 2             | <0.05                | <0.05 | <0.05 | ✓             | 5             | 330                  | 330 | 330  | (19)          | 2             | 280                  | 300 | 290  | (20)          |
| Tjukurla                                                                        | 4                     | 290                  | 360 | 328  | (18)          | 4             | <0.05                | <0.05 | <0.05 | ✓             | 4             | 260                  | 300 | 280  | (19)          | 4             | 440                  | 540 | 503  | (20)          |
| Tjuntjuntjara *                                                                 | 6                     | 110                  | 160 | 135  | (18)          | 6             | <0.05                | 0.05  | 0.05  | ✓             | 6             | 130                  | 240 | 173  | ✓             | 6             | 140                  | 210 | 180  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. This water is supplied to all other taps and is not intended for drinking

(18) No guideline value available as per ADWG 2011.

(19) Elevated chloride is characteristic of the source supplying this community.

(20) Elevated hardness is characteristic of the source supplying this community.

**Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025**

| Table 29 Aesthetic (non-health related) variables - non-drinking water supplied |               |                      |       |       |               |               |                      |        |        |               |               |                  |     |      |               |               |                      |     |      |               |
|---------------------------------------------------------------------------------|---------------|----------------------|-------|-------|---------------|---------------|----------------------|--------|--------|---------------|---------------|------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|
| AC Goldfields Central                                                           | Iron          |                      |       |       |               | Manganese     |                      |        |        |               | pH            |                  |     |      |               | Silica        |                      |     |      |               |
| Community                                                                       | Samples taken | Concentration (mg/L) |       |       | Guideline met | Samples taken | Concentration (mg/L) |        |        | Guideline met | Samples taken | Value (pH units) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met |
|                                                                                 |               | Min                  | Max   | Mean  |               |               | Min                  | Max    | Mean   |               |               | Min              | Max | Mean |               |               | Min                  | Max | Mean |               |
| Mt Margaret *                                                                   | 2             | <0.01                | <0.01 | <0.01 | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 8.2              | 8.3 | 8.3  | ✓             | 4             | 37                   | 46  | 42   | ✓             |
| Patjarr *                                                                       | 2             | <0.01                | 0.04  | 0.03  | ✓             | 2             | <0.005               | <0.005 | <0.005 | ✓             | 2             | 6.9              | 7.1 | 7.0  | ✓             | 5             | 63                   | 64  | 64   | ✓             |
| Tjukurla                                                                        | 4             | <0.01                | <0.01 | <0.01 | ✓             | 4             | <0.005               | <0.005 | <0.005 | ✓             | 4             | 7.9              | 8.3 | 8.1  | ✓             | 4             | 77                   | 80  | 79   | ✓             |
| Tjuntjuntjara *                                                                 | 6             | <0.01                | 0.02  | 0.01  | ✓             | 6             | <0.005               | <0.005 | <0.005 | ✓             | 6             | 7.3              | 8.1 | 7.7  | ✓             | 6             | 12                   | 17  | 15   | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. This water is supplied to all other taps and is not intended for drinking.

**Drinking Water Quality Annual Report Data 01/07/2024 to 30/06/2025**

|                       | Table 30   Aesthetic (non-health related) variables - non-drinking water supplied |                      |     |      |               |               |                      |     |      |               |                        |                      |      |      |               |               |             |     |      |               |               |             |      |      |               |
|-----------------------|-----------------------------------------------------------------------------------|----------------------|-----|------|---------------|---------------|----------------------|-----|------|---------------|------------------------|----------------------|------|------|---------------|---------------|-------------|-----|------|---------------|---------------|-------------|------|------|---------------|
| AC Goldfields Central | Sodium                                                                            |                      |     |      |               | Sulfate       |                      |     |      |               | Total Dissolved Solids |                      |      |      |               | True Colour   |             |     |      |               | Turbidity     |             |      |      |               |
| Community             | Samples taken                                                                     | Concentration (mg/L) |     |      | Guideline met | Samples taken | Concentration (mg/L) |     |      | Guideline met | Samples taken          | Concentration (mg/L) |      |      | Guideline met | Samples taken | Value (TCU) |     |      | Guideline met | Samples taken | Value (NTU) |      |      | Guideline met |
|                       |                                                                                   | Min                  | Max | Mean |               |               | Min                  | Max | Mean |               |                        | Min                  | Max  | Mean |               |               | Min         | Max | Mean |               |               | Min         | Max  | Mean |               |
| Mt Margaret *         | 2                                                                                 | 230                  | 270 | 250  | (27)          | 2             | 140                  | 180 | 160  | ✓             | 2                      | 950                  | 1200 | 1075 | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | 0.2         | 0.4  | 0.3  | ✓             |
| Patjarr *             | 2                                                                                 | 160                  | 170 | 165  | ✓             | 2             | 170                  | 180 | 175  | ✓             | 2                      | 970                  | 980  | 975  | (29)          | 2             | <5          | <5  | <5   | ✓             | 2             | <0.1        | <0.1 | <0.1 | ✓             |
| Tjukurla              | 4                                                                                 | 200                  | 240 | 215  | (27)          | 4             | 320                  | 360 | 335  | (28)          | 4                      | 1200                 | 1300 | 1225 | (29)          | 3             | <5          | <5  | <5   | ✓             | 3             | <0.1        | 0.2  | 0.2  | ✓             |
| Tjuntjuntjara *       | 6                                                                                 | 110                  | 170 | 137  | ✓             | 6             | 74                   | 150 | 102  | ✓             | 6                      | 540                  | 710  | 637  | (29)          | 2             | <5          | <5  | <5   | ✓             | 4             | <0.1        | 0.5  | 0.3  | ✓             |

\* Dual reticulation system supplies this community. Drinking water is supplied to a tap in the kitchen. This water is supplied to all other taps and is not intended for drinking.

(27) Elevated sodium is characteristic of the source supplying this community.

(28) Elevated sulfate is a characteristic of the source supplying this community.

(29) Elevated TDS is characteristic of the source supplying this community.