



Water Regulator Monthly Compliance Report – January 2025

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Executive Summary

This report has been developed in order to satisfy the condition of Department of Local Government, Water and Volunteers compliance reporting of the operational and verification monitoring detailed in Woorabinda's Drinking Water Quality Management Plan (DWQMP) 2024 V7.7.

Compliance reports must be carried out in accordance with the Water Supply Regulation Compliance Notice, dated 19th December 2024.

1. From 2 January 2025 to 31 December 2024, implement the operational and verification monitoring programs details in Councils approved DWQMP and give the regulator a summary of water quality data acquired during each calendar month, within 5 business days after the end of the month, in which data was acquired.
2. Immediately notify the regulator when the equipment necessary to undertake continuous online monitoring of turbidity at the outlet of the sand filters and continuous monitoring of chlorine at the outlet of the Water Treatment Plant is reinstated. When the relevant monitoring equipment is again operational, set the appropriate alert and critical limits and include corresponding correction actions in Council's DWQMP, to enable a timely response to potential in treated water quality.

Currently there is no online monitoring for critical parameters such as turbidity, pH or chlorine residuals. Manual grab samples are used instead relying on workforce capacity and capability to communicate and apply collaboration tools that ensures consistency.

With limited turbidity monitoring for sand or carbon filters, with failed common turbidity meter limiting detection of specific filter issues will require the DWQMP to be reviewed on a monthly basis to account for corrective actions to meet reporting requirements.

This Compliance Report for the month of January 2025 summarises organisational impediments, process improvements, proposed amendments to the DWQMP and statistical data to deal with all contraventions relating to the Water Supply (Safety and Reliability) Act 2008.

Introduction

Operational and Verification Monitoring

Woorabinda Aboriginal Shire Council has a Water and Wastewater Maintenance agreement with an external Contractor that provides:

- TeamViewer remote access account
- Electrical remote support
- SCADA rectification and minor code amendments
- Stand-in Water and Wastewater management

A position was created to centralise all the regulatory reporting requirements and expedite corrective actions to meet Qld Drinking Water Regulations. The Water/Wastewater Operators are responsible for the monitoring and initial corrective action with the Essential Services Technical Officer.

Water Treatment Plant Information Summary

| Woorabinda Water Treatment Plant | |
|----------------------------------|--|
| Location | Water Shed. Lat -24.12358700, Long 149.46593900 |
| Treatment Processes | pH adjustment, Potassium Permanganate dosing, Flocculation & Settling, Sand Filtration, Activated Carbon Filtration, Chlorine Disinfection |
| Capacity | Up to 15L/s. If plant cannot maintain water quality, operators adjust the chemical dosing |
| Current Loading | Pumps operate at 10L/s. Hours of operations are 24/7. Hours of operation by operator are 44 hours per week. |
| Duty/standby arrangements | All pumps have duty/stand-by arrangement. |
| Alarms | Acid and hypochlorite dosing chases set points in SCADA. Ultrion and potassium permanganate uses flow-paced dosing. |
| Chemicals | Hydrochloric acid, Ultrion & potassium permanganate dosed in raw water. Sodium hypochlorite dosed in treated water. Chemicals able to be delivered as required year-round and are stored in the WTP shed. |
| Disinfection | Water is always disinfected with Sodium Hypochlorite. |
| Operation | Plant operates automatically and can be monitored by computer. Operators are present between the hours of 7:30am-4:30pm Monday to Thursday and 4hours Friday 7:30am – 11:30am, and one hour per day Saturday and Sunday. Plant is shut-off automatically when the clear water reservoir is full. Filter back wash is based on time and water level and can be triggered manually, backwashed water goes directly to sludge lagoons. The Operators are present 7 days/week. Computer system to notify operator (by mobile phone) is in the process of being implemented into the SCADA system. Not yet set up for WASC. |

Compliance Status Summary

Monitoring Sites

Operational and verification monitoring is undertaken in accordance with the following Schedule.

| Type | Sample Reference | Sample Location |
|---------|----------------------------|---|
| Treated | WTP Out | Outlet of WTP |
| Treated | Reservoir / Sample Point 1 | Monitor Unit Front Shed, Water Treatment Plant Woorabinda |
| Treated | Sample Point 2 | Tap - Sink Staff Room, Woorabinda Hospital Munns Rd Woorabinda |
| Treated | Sample Point 3 | Tap - Woorabinda State Primary School / Hall, Carbine Street Woorabinda |
| Treated | Sample Point 4 | Tap – External tap 66 Munns Drive Woorabinda |
| Raw | Sample Point 5 | Tap - Raw Water Pipe, Water Treatment Plant Woorabinda |

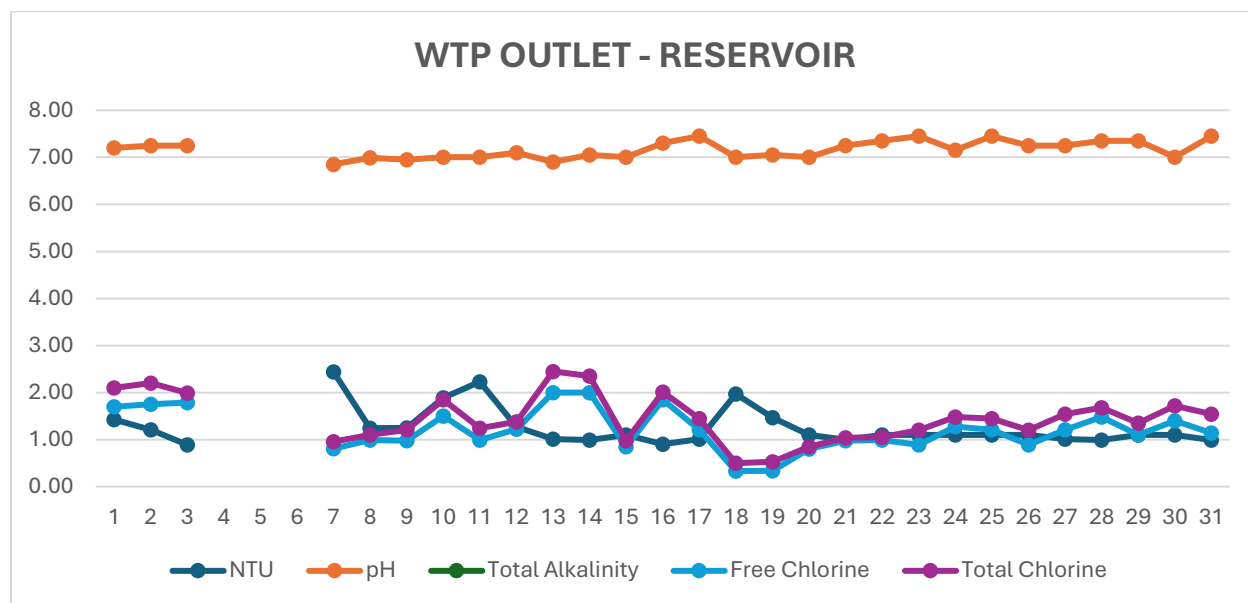
Monitoring Parameters & Limits

| Process step / location | Parameter | Target limit | Action if target limit is not met | Alert or Critical limit | Action if alert or critical limit is exceeded |
|-------------------------------------|---------------|----------------|---|-----------------------------|---|
| Raw water | Turbidity | N/A | N/A | N/A | N/A |
| | pH | 6.0 – 8.5 | | >8.0 | Check acid dosing, chemicals & pumps |
| Settled water | Turbidity | <5 | Operator to check dosing rates | >5 NTU | Plant shut down, check dosing rates Complete as per examples |
| | pH | 6.0 – 8.5 | Check acid dosing | <6.0 >8.5 | Check acid dosing |
| Post-filtration (combined filtrate) | Turbidity | <0.2 NTU | Refer to CCP procedure | >0.5 NTU (after 15 minutes) | Refer to CCP procedure |
| Carbon filter product | Turbidity | <0.2 NTU | WTP Operator is responsible for making adjustments to the WTP | 1.0 NTU | WTP Operator checks the dosing and full operation of the plant. |
| | pH | 7.0 – 8.0 | WTP Operator is responsible for making adjustments to the WTP | <6.5 or >8.0 | WTP Operator checks the dosing and full operation of the plant. |
| WTP Out (prior to Reservoir) | Free chlorine | 1.5 – 3.0 mg/L | WTP Operator is responsible for making adjustments to the WTP | <1.5 or >5.0 mg/L | WTP Operator checks the dosing and full operation of the plant. |
| Reservoir (water supply to town) | Free chlorine | 1.0 – 2.0 mg/L | Refer to CCP procedure | <0.5 or >4.0 mg/L | Refer to CCP procedure |

January 2025 Analysis

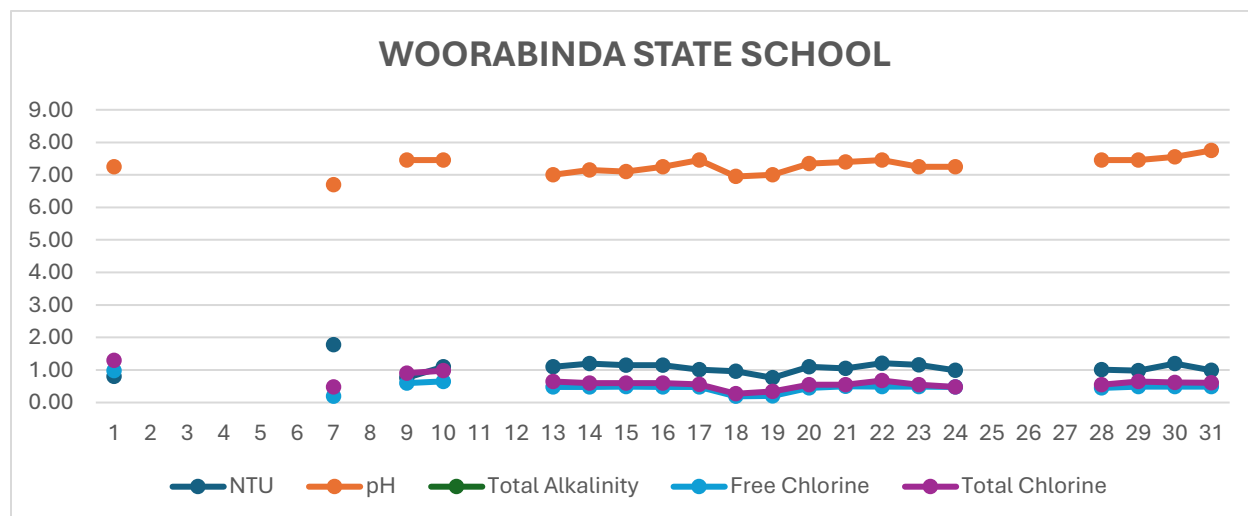
WTP Reservoir

On the 22nd December 2024 a Boil Water Alert was issued and remained in place through January. The Water Operators have been communicating with the Water Regulator and Queensland Health to resolve issues to the health of the water. The water quality remained within the parameters <5 at the end of January. Monitoring arrangements and correction actions were undertaken and highlighted in this report.



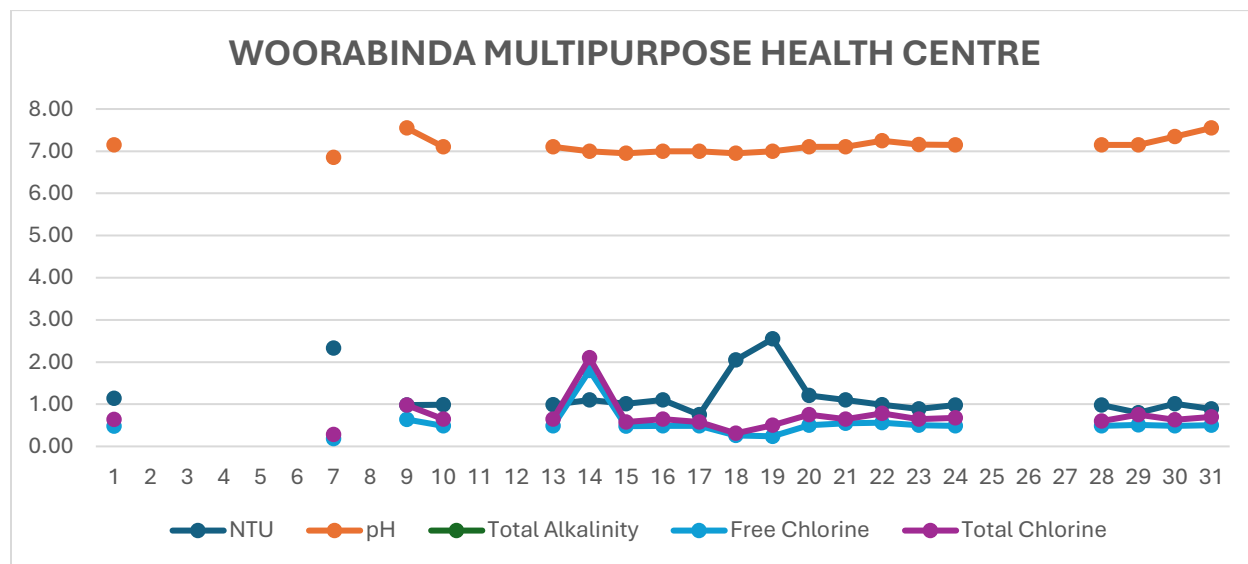
Woorabinda State School

January is school vacation period, though water testing was inconsistent the results are within the parameters and limits for Water Quality.



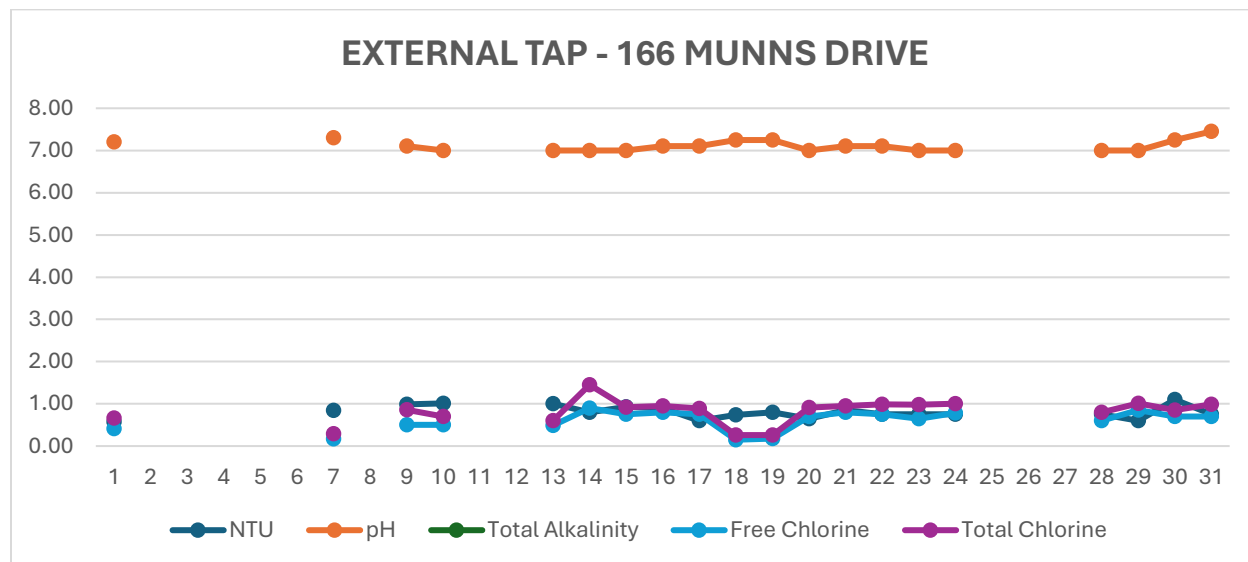
Woorabinda Multipurpose Health Centre

As the Boil Water Alert has been in place for six (6) weeks the Multipurpose Health Centre has been operating self-managed tanks. The spike in turbidity levels may have been as a result of town water resting in the pipes that were tested over a weekend. Currently there are no online monitoring of critical parameters such turbidity, pH or chlorine residuals and coincides with water quality at the Reservoir outlet.



166 Munns Drive – External Tap

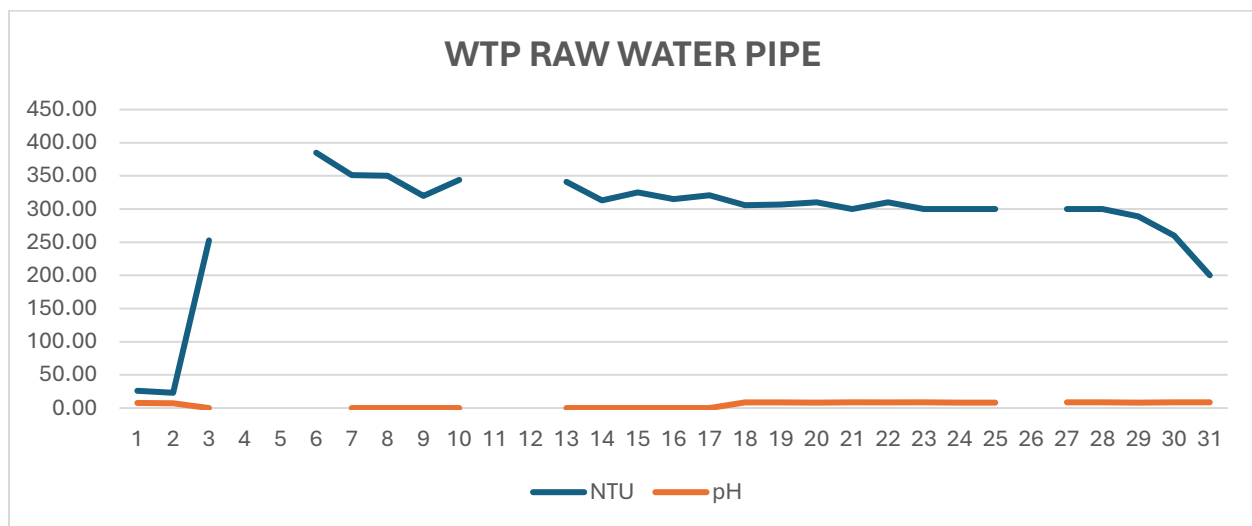
Water testing inconsistency within the month of January results were within parameters and limits.



WTP Raw Water Pipe

The pre-treatment of water dosing system lacks proper set-up, such as calibration cylinders for drop tests and accurate adjustments based on real-time monitoring. Hydrochloric acid dosing is automated, and its placement post-coagulant dosing reduces its effectiveness in pH stabilization for coagulation.

The turbidity on the 1st and 2nd was coming in clean and operators found it hard to treat, followed by the flooding of the Dawson River which saw the turbidity spike, but due to the failing plant infrastructure, the performance of the filtration saw the Council struggle to meet the limits set out in the DWQMP for the month of January for plant filtration.



Reporting and Corrective Actions

December

Sunday 22nd – Drinkingwater reporting hotline, discolouration in the water. Reporting event closed on 20th January 2025

Sunday 22nd - Public Notice Boil Water

Tuesday 24th – Water Supply Regulation, December water quality events:-

1. CAS-150-24-11568 (water security event) reported 13/12/24
2. DWI-150-24-1184 (network turbidity event) reported 22/12/24
3. DWI-150-24-11691 (filtered water turbidity event) reported 24/12/24 - closed

January

Wednesday 1st – Backwash Sand Filters

Tuesday 7th – Backwash Sand Filters, drain and clean both settler tanks, jar tests, poly dosing to 20ml/L, Backwash Carbon Filters x2. Change flow rate to 15ml/L from 10L/s, change floc stirrer speed to 10% from 80%, zero change to turbidity from floc to settler tank output.

Wednesday 8th – Update Water Regulator on Turbidity issue informed the operator did not complete test sheets from the 4-6 January 2025

Thursday 16th – Water test results emailed to Water Regulator

Saturday 18th – Backwash Sand Filters, Drain Secondary Tanks

Sunday 19th – Backwash Sand Filters, Backwash Carbon Filters, Change Poly 21% from 23.5, change flow rate to 13%.

Conclusion

The lack of consistency in taking and testing water samples over the January period was a result of a breakdown in communication as staff returned from the Christmas Closure. Though staff routines achieved a level of discipline during weekdays, handover of tasks on weekend shift to backfilling Operators will require improvement.

All microbiology testing for the month of January were a 'Pass'.

DWQMP Improvement

1. Staff directive to ensure that samples including reticulation samples are to be collected every day.
2. Daily testing sheets to be collected and recording on the Water Monitoring Monthly Register
3. Mobile Testing Kits to be identified and provided to Operators to complete water testing at the sites.
4. Water Operators assigned vehicles to be modified to secure resources for the purpose of testing and recording samples of water at site locations.
5. Create a Contractors Register and determine a maintenance schedule.

DWQMP Amendments

1. Operational and Verification Monitoring, Section 4, page 46:-
 - a. External water treatment contractor visits monthly to be change to 'as per maintenance schedule by Subject Matter Experts (SMEs) and Contractors.
 - b. Reference is given to 6.2 of which there is no section.
2. Monitoring Sites error in address should read 'Tap – External Tap 166 Munns Drive and not 66 Munns drive.

Appendice

1. Quality Water Monitoring Monthly Register
2. Inaccurate recording Daily Water Test Sheet example

1. Monthly Register Water Monitoring Results

| TestTime | TestDate | Sites | NTU | pH | Total Alkalinity | Free Chlorine | Total Chlorine |
|----------|----------|-----------------|--------|------|------------------|---------------|----------------|
| 11:30am | 1/1/25 | Raw Water | 26.00 | 7.65 | | | |
| 11:30am | 1/1/25 | Settler Tanks | 19.80 | 6.90 | | | |
| 11:30am | 1/1/25 | Sand Filters | 6.28 | 6.95 | | | |
| 11:30am | 1/1/25 | Carbon Filters | 1.31 | 7.10 | | | |
| 11:30am | 1/1/25 | Plant Output | 0.98 | 7.25 | | 3.10 | 3.40 |
| 11:30am | 1/1/25 | Reservoir | 1.43 | 7.20 | | 1.70 | 2.10 |
| 11:30am | 1/1/25 | 166 Munns Drive | 0.57 | 7.20 | | 0.41 | 0.66 |
| 11:30am | 1/1/25 | Hospital | 1.14 | 7.15 | | 0.48 | 0.64 |
| 11:30am | 1/1/25 | School | 0.80 | 7.25 | | 0.98 | 1.30 |
| 11:30am | 1/1/25 | Water Info | | | | | |
| | 1/2/25 | Raw Water | 23.00 | 7.25 | | | |
| | 1/2/25 | Settler Tanks | 17.50 | 7.05 | | | |
| | 1/2/25 | Sand Filters | 7.90 | 7.05 | | | |
| | 1/2/25 | Carbon Filters | 1.25 | 7.15 | | | |
| | 1/2/25 | Plant Output | 0.99 | 7.20 | | 3.20 | 3.40 |
| | 1/2/25 | Reservoir | 1.21 | 7.25 | | 1.75 | 2.20 |
| | 1/2/25 | 166 Munns Drive | | | | | |
| | 1/2/25 | Hospital | | | | | |
| | 1/2/25 | School | | | | | |
| | 1/2/25 | Water Info | | | | | |
| | 1/3/24 | Raw Water | 253.00 | >> | | | |
| | 1/3/24 | Settler Tanks | 8.50 | 7.55 | | | |
| | 1/3/24 | Sand Filters | 0.51 | 7.45 | | | |
| | 1/3/24 | Carbon Filters | 0.50 | 7.00 | | | |
| | 1/3/24 | Plant Output | 0.99 | 7.00 | | 3.60 | 4.01 |
| | 1/3/24 | Reservoir | 0.89 | 7.25 | | 1.79 | 1.99 |
| | 1/3/24 | 166 Munns Drive | | | | | |

| | | | |
|--------|--------|-----------------|--------|
| | 1/3/24 | Hospital | |
| | 1/3/24 | School | |
| | 1/3/24 | Water Info | |
| | 1/4/25 | Raw Water | |
| | 1/4/25 | Settler Tanks | |
| | 1/4/25 | Sand Filters | |
| | 1/4/25 | Carbon Filters | |
| | 1/4/25 | Plant Output | |
| | 1/4/25 | Reservoir | |
| | 1/4/25 | 166 Munns Drive | |
| | 1/4/25 | Hospital | |
| | 1/4/25 | School | |
| | 1/4/25 | Water Info | |
| 6:14am | 1/5/25 | Raw Water | |
| 6:14am | 1/5/25 | Settler Tanks | |
| 6:14am | 1/5/25 | Sand Filters | |
| 6:14am | 1/5/25 | Carbon Filters | |
| 6:14am | 1/5/25 | Plant Output | |
| 6:14am | 1/5/25 | Reservoir | |
| 6:14am | 1/5/25 | 166 Munns Drive | |
| 6:14am | 1/5/25 | Hospital | |
| 6:14am | 1/5/25 | School | |
| 6:14am | 1/5/25 | Water Info | |
| 7:11am | 1/6/25 | Raw Water | 385.00 |
| 7:11am | 1/6/25 | Settler Tanks | |
| 7:11am | 1/6/25 | Sand Filters | |
| 7:11am | 1/6/25 | Carbon Filters | |
| 7:11am | 1/6/25 | Plant Output | |
| 7:11am | 1/6/25 | Reservoir | |
| 7:11am | 1/6/25 | 166 Munns Drive | |

| | | | | | | | |
|--------|--------|-----------------|--------|------|------|------|--|
| 7:11am | 1/6/25 | Hospital | | | | | |
| 7:11am | 1/6/25 | School | | | | | |
| 7:11am | 1/6/25 | Water Info | | | | | |
| 4:00pm | 1/7/25 | Raw Water | 351.00 | >> | | | |
| 4:00pm | 1/7/25 | Settler Tanks | 12.80 | 6.85 | | | |
| 4:00pm | 1/7/25 | Sand Filters | 0.69 | 6.95 | | | |
| 4:00pm | 1/7/25 | Carbon Filters | 0.81 | 7.00 | | | |
| 4:00pm | 1/7/25 | Plant Output | 1.15 | 7.05 | 2.90 | 3.00 | |
| 4:00pm | 1/7/25 | Reservoir | 2.44 | 6.85 | 0.81 | 0.96 | |
| 4:00pm | 1/7/25 | 166 Munns Drive | 0.84 | 7.30 | 0.17 | 0.29 | |
| 4:00pm | 1/7/25 | Hospital | 2.33 | 6.85 | 0.18 | 0.28 | |
| 4:00pm | 1/7/25 | School | 1.78 | 6.70 | 0.19 | 0.48 | |
| 4:00pm | 1/7/25 | Water Info | | | | | |
| 7:28am | 1/8/25 | Raw Water | 350.00 | >> | | | |
| 7:28am | 1/8/25 | Settler Tanks | 11.90 | 6.98 | | | |
| 7:28am | 1/8/25 | Sand Filters | 0.65 | 7.00 | | | |
| 7:28am | 1/8/25 | Carbon Filters | 0.75 | 7.15 | | | |
| 7:28am | 1/8/25 | Plant Output | 1.10 | 7.25 | 3.00 | 3.45 | |
| 7:28am | 1/8/25 | Reservoir | 1.24 | 6.99 | 0.99 | 1.10 | |
| 7:28am | 1/8/25 | 166 Munns Drive | | | | | |
| 7:28am | 1/8/25 | Hospital | | | | | |
| 7:28am | 1/8/25 | School | | | | | |
| 7:28am | 1/8/25 | Water Info | | | | | |
| | 1/9/25 | Raw Water | 320.00 | >> | | | |
| | 1/9/25 | Settler Tanks | 7.78 | 7.05 | | | |
| | 1/9/25 | Sand Filters | 0.77 | 6.95 | | | |
| | 1/9/25 | Carbon Filters | 0.87 | 7.00 | | | |
| | 1/9/25 | Plant Output | 0.98 | 7.10 | 2.90 | 3.01 | |

| | | | | | | |
|--------|---------|-----------------|--------|------|------|------|
| | 1/9/25 | Reservoir | 1.25 | 6.95 | 0.98 | 1.21 |
| | 1/9/25 | 166 Munns Drive | 0.99 | 7.10 | 0.50 | 0.86 |
| | 1/9/25 | Hospital | 0.98 | 7.55 | 0.64 | 0.98 |
| | 1/9/25 | School | 0.76 | 7.45 | 0.60 | 0.90 |
| | 1/9/25 | Water Info | | | | |
| 6:42am | 1/10/25 | Raw Water | 344.00 | >> | | |
| 6:42am | 1/10/25 | Settler Tanks | 9.85 | 7.00 | | |
| 6:42am | 1/10/25 | Sand Filters | 1.65 | 7.00 | | |
| 6:42am | 1/10/25 | Carbon Filters | 1.15 | 6.95 | | |
| 6:42am | 1/10/25 | Plant Output | 1.10 | 7.20 | 3.80 | 4.20 |
| 6:42am | 1/10/25 | Reservoir | 1.89 | 7.00 | 1.50 | 1.85 |
| 6:42am | 1/10/25 | 166 Munns Drive | 1.01 | 7.00 | 0.50 | 0.70 |
| 6:42am | 1/10/25 | Hospital | 0.99 | 7.10 | 0.49 | 0.65 |
| 6:42am | 1/10/25 | School | 1.10 | 7.45 | 0.65 | 0.98 |
| 6:42am | 1/10/25 | Water Info | | | | |
| | 1/11/25 | Raw Water | | | | |
| | 1/11/25 | Settler Tanks | 9.31 | 7.10 | | |
| | 1/11/25 | Sand Filters | 0.84 | 7.00 | | |
| | 1/11/25 | Carbon Filters | 0.69 | 7.10 | | |
| | 1/11/25 | Plant Output | 0.94 | 7.25 | 4.40 | 4.80 |
| | 1/11/25 | Reservoir | 2.23 | 7.00 | 0.99 | 1.24 |
| | 1/11/25 | 166 Munns Drive | | | | |
| | 1/11/25 | Hospital | | | | |
| | 1/11/25 | School | | | | |
| | 1/11/25 | Water Info | | | | |
| | 1/12/25 | Raw Water | | | | |
| | 1/12/25 | Settler Tanks | 7.02 | 6.90 | | |
| | 1/12/25 | Sand Filters | 0.98 | 6.90 | | |
| | 1/12/25 | Carbon Filters | 0.78 | 7.10 | | |
| | 1/12/25 | Plant Output | 0.87 | 7.15 | 2.70 | 3.20 |

| | | | | | | |
|--------|-----------|-----------------|--------|------|------|------|
| | 1/12/25 | Reservoir | 1.27 | 7.10 | 1.22 | 1.38 |
| | 1/12/25 | 166 Munns Drive | | | | |
| | 1/12/25 | Hospital | | | | |
| | 1/12/25 | School | | | | |
| | 1/12/25 | Water Info | | | | |
| | 13/1/2025 | Raw Water | 341.00 | >> | | |
| | 13/1/2025 | Settler Tanks | 7.61 | 6.98 | | |
| | 13/1/2025 | Sand Filters | 0.60 | 6.98 | | |
| | 13/1/2025 | Carbon Filters | 0.60 | 7.00 | | |
| | 13/1/2025 | Plant Output | 0.82 | 7.00 | 4.20 | 4.48 |
| | 13/1/2025 | Reservoir | 1.01 | 6.90 | 2.00 | 2.45 |
| | 13/1/2025 | 166 Munns Drive | 1.00 | 7.00 | 0.49 | 0.60 |
| | 13/1/2025 | Hospital | 0.99 | 7.10 | 0.49 | 0.65 |
| | 13/1/2025 | School | 1.10 | 7.00 | 0.48 | 0.65 |
| | 13/1/2025 | Water Info | | | | |
| 7:04am | 14/1/2025 | Raw Water | 313.00 | >> | | |
| 7:04am | 14/1/2025 | Settler Tanks | 7.00 | 7.10 | | |
| 7:04am | 14/1/2025 | Sand Filters | 0.65 | 7.15 | | |
| 7:04am | 14/1/2025 | Carbon Filters | 0.70 | 7.00 | | |
| 7:04am | 14/1/2025 | Plant Output | 0.75 | 7.00 | 4.00 | 4.20 |
| 7:04am | 14/1/2025 | Reservoir | 0.99 | 7.05 | 2.00 | 2.35 |
| 7:04am | 14/1/2025 | 166 Munns Drive | 0.80 | 7.00 | 0.90 | 1.45 |
| 7:04am | 14/1/2025 | Hospital | 1.10 | 7.00 | 1.80 | 2.10 |
| 7:04am | 14/1/2025 | School | 1.20 | 7.15 | 0.48 | 0.60 |
| 7:04am | 14/1/2025 | Water Info | | | | |
| 7:03am | 15/1/2025 | Raw Water | 325.00 | >> | | |
| 7:03am | 15/1/2025 | Settler Tanks | 8.08 | 6.99 | | |
| 7:03am | 15/1/2025 | Sand Filters | 0.60 | 7.10 | | |
| 7:03am | 15/1/2025 | Carbon Filters | 0.80 | 7.00 | | |
| 7:03am | 15/1/2025 | Plant Output | 0.85 | 6.99 | 3.50 | 3.98 |

| | | | | | | |
|--------|-----------|-----------------|--------|------|------|------|
| 7:03am | 15/1/2025 | Reservoir | 1.10 | 7.00 | 0.85 | 0.98 |
| 7:03am | 15/1/2025 | 166 Munns Drive | 0.93 | 7.00 | 0.75 | 0.92 |
| 7:03am | 15/1/2025 | Hospital | 1.01 | 6.95 | 0.48 | 0.58 |
| 7:03am | 15/1/2025 | School | 1.15 | 7.10 | 0.49 | 0.60 |
| 6:58am | 15/1/2025 | Water Info | | | | |
| 6:58am | 16/1/2025 | Raw Water | 315.00 | >> | | |
| 6:58am | 16/1/2025 | Settler Tanks | 7.86 | 7.15 | | |
| 6:58am | 16/1/2025 | Sand Filters | 0.70 | 7.10 | | |
| 6:58am | 16/1/2025 | Carbon Filters | 0.75 | 7.25 | | |
| 6:58am | 16/1/2025 | Plant Output | 1.00 | 7.35 | 3.40 | 3.80 |
| 6:58am | 16/1/2025 | Reservoir | 0.90 | 7.30 | 1.85 | 2.01 |
| 6:58am | 16/1/2025 | 166 Munns Drive | 0.90 | 7.10 | 0.80 | 0.95 |
| 6:58am | 16/1/2025 | Hospital | 1.10 | 7.00 | 0.49 | 0.65 |
| 6:58am | 16/1/2025 | School | 1.15 | 7.25 | 0.48 | 0.60 |
| 6:58am | 16/1/2025 | Water Info | | | | |
| 6:38am | 17/1/2025 | Raw Water | 321.00 | >> | | |
| 6:38am | 17/1/2025 | Settler Tanks | 8.19 | 7.06 | | |
| 6:38am | 17/1/2025 | Sand Filters | 0.79 | 7.15 | | |
| 6:38am | 17/1/2025 | Carbon Filters | 0.60 | 7.10 | | |
| 6:38am | 17/1/2025 | Plant Output | 0.58 | 7.00 | 3.81 | 4.01 |
| 6:38am | 17/1/2025 | Reservoir | 1.01 | 7.45 | 1.21 | 1.45 |
| 6:38am | 17/1/2025 | 166 Munns Drive | 0.60 | 7.10 | 0.75 | 0.89 |
| 6:38am | 17/1/2025 | Hospital | 0.75 | 7.00 | 0.49 | 0.58 |
| 6:38am | 17/1/2025 | School | 1.01 | 7.45 | 0.48 | 0.56 |
| 6:38am | 17/1/2025 | Water Info | | | | |
| 9:00am | 18/1/2025 | Raw Water | 306.00 | 8.50 | | |
| 9:00am | 18/1/2025 | Settler Tanks | 9.21 | 6.90 | | |
| 9:00am | 18/1/2025 | Sand Filters | 0.70 | 7.00 | | |
| 9:00am | 18/1/2025 | Carbon Filters | 0.86 | 7.10 | | |
| 9:00am | 18/1/2025 | Plant Output | 0.86 | 7.25 | 1.70 | 2.30 |

| | | | | | | |
|---------|-----------|-----------------|--------|------|------|------|
| 9:00am | 18/1/2025 | Reservoir | 1.97 | 7.00 | 0.33 | 0.50 |
| 9:00am | 18/1/2025 | 166 Munns Drive | 0.74 | 7.25 | 0.15 | 0.26 |
| 9:00am | 18/1/2025 | Hospital | 2.05 | 6.95 | 0.26 | 0.31 |
| 9:00am | 18/1/2025 | School | 0.96 | 6.95 | 0.19 | 0.27 |
| 9:00am | 18/1/2025 | Water Info | | | | |
| 11:30am | 19/1/2025 | Raw Water | 307.00 | 8.50 | | |
| 11:30am | 19/1/2025 | Settler Tanks | 8.63 | 7.05 | | |
| 11:30am | 19/1/2025 | Sand Filters | 0.68 | 7.05 | | |
| 11:30am | 19/1/2025 | Carbon Filters | 0.76 | 7.15 | | |
| 11:30am | 19/1/2025 | Plant Output | 0.93 | 7.25 | 2.20 | 2.70 |
| 11:30am | 19/1/2025 | Reservoir | 1.47 | 7.05 | 0.34 | 0.53 |
| 11:30am | 19/1/2025 | 166 Munns Drive | 0.80 | 7.25 | 0.18 | 0.26 |
| 11:30am | 19/1/2025 | Hospital | 2.55 | 7.00 | 0.24 | 0.50 |
| 11:30am | 19/1/2025 | School | 0.76 | 7.00 | 0.20 | 0.34 |
| 11:30am | 19/1/2025 | Water Info | | | | |
| 7:03am | 20/1/2025 | Raw Water | 310.00 | 8.25 | | |
| 7:03am | 20/1/2025 | Settler Tanks | 10.10 | 7.15 | | |
| 7:03am | 20/1/2025 | Sand Filters | 0.68 | 7.10 | | |
| 7:03am | 20/1/2025 | Carbon Filters | 0.60 | 7.25 | | |
| 7:03am | 20/1/2025 | Plant Output | 0.75 | 0.35 | 1.89 | 2.20 |
| 7:03am | 20/1/2025 | Reservoir | 1.10 | 7.00 | 0.80 | 0.85 |
| 7:03am | 20/1/2025 | 166 Munns Drive | 0.65 | 7.00 | 0.70 | 0.91 |
| 7:03am | 20/1/2025 | Hospital | 1.21 | 7.10 | 0.50 | 0.75 |
| 7:03am | 20/1/2025 | School | 1.10 | 7.35 | 0.45 | 0.55 |
| 7:03am | 20/1/2025 | Water Info | | | | |
| | 21/1/2025 | Raw Water | 300.00 | 8.40 | | |
| | 21/1/2025 | Settler Tanks | 6.65 | 7.20 | | |
| | 21/1/2025 | Sand Filters | 0.82 | 7.10 | | |
| | 21/1/2025 | Carbon Filters | 0.85 | 7.15 | | |
| | 21/1/2025 | Plant Output | 0.98 | 7.25 | 3.30 | 3.90 |

| | | | | | | |
|--------|-----------|-----------------|--------|------|------|------|
| | 21/1/2025 | Reservoir | 1.00 | 7.25 | 0.98 | 1.04 |
| | 21/1/2025 | 166 Munns Drive | 0.85 | 7.10 | 0.80 | 0.95 |
| | 21/1/2025 | Hospital | 1.10 | 7.10 | 0.55 | 0.65 |
| | 21/1/2025 | School | 1.05 | 7.40 | 0.50 | 0.55 |
| | 21/1/2025 | Water Info | | | | |
| 7:35am | 22/1/2025 | Raw Water | 310.00 | 8.50 | | |
| 7:35am | 22/1/2025 | Settler Tanks | 6.60 | 7.21 | | |
| 7:35am | 22/1/2025 | Sand Filters | 0.78 | 7.15 | | |
| 7:35am | 22/1/2025 | Carbon Filters | 0.76 | 7.10 | | |
| 7:35am | 22/1/2025 | Plant Output | 0.97 | 7.25 | 3.55 | 3.89 |
| 7:35am | 22/1/2025 | Reservoir | 1.10 | 7.35 | 0.99 | 1.05 |
| 7:35am | 22/1/2025 | 166 Munns Drive | 0.75 | 7.10 | 0.75 | 0.99 |
| 7:35am | 22/1/2025 | Hospital | 0.99 | 7.25 | 0.56 | 0.78 |
| 7:35am | 22/1/2025 | School | 1.21 | 7.45 | 0.49 | 0.68 |
| 7:35am | 22/1/2025 | Water Info | | | | |
| 7:06am | 23/1/2025 | Raw Water | 300.00 | 8.45 | | |
| 7:06am | 23/1/2025 | Settler Tanks | 8.10 | 7.15 | | |
| 7:06am | 23/1/2025 | Sand Filters | 0.89 | 7.15 | | |
| 7:06am | 23/1/2025 | Carbon Filters | 0.70 | 7.25 | | |
| 7:06am | 23/1/2025 | Plant Output | 0.89 | 7.35 | 3.01 | 3.25 |
| 7:06am | 23/1/2025 | Reservoir | 1.10 | 7.45 | 0.89 | 1.20 |
| 7:06am | 23/1/2025 | 166 Munns Drive | 0.75 | 7.00 | 0.65 | 0.98 |
| 7:06am | 23/1/2025 | Hospital | 0.89 | 7.16 | 0.50 | 0.65 |
| 7:06am | 23/1/2025 | School | 1.16 | 7.25 | 0.49 | 0.55 |
| 7:06am | 23/1/2025 | Water Info | | | | |
| 7:06am | 24/1/2025 | Raw Water | 300.00 | 8.35 | | |
| 7:06am | 24/1/2025 | Settler Tanks | 8.37 | 6.99 | | |
| 7:06am | 24/1/2025 | Sand Filters | 0.70 | 6.98 | | |
| 7:06am | 24/1/2025 | Carbon Filters | 0.60 | 7.00 | | |
| 7:06am | 24/1/2025 | Plant Output | 0.80 | 7.00 | 2.80 | 3.30 |

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|--------|-----------|-----------------|--------|------|------|------|
| 7:06am | 24/1/2025 | Reservoir | 1.10 | 7.15 | 1.28 | 1.48 |
| 7:06am | 24/1/2025 | 166 Munns Drive | 0.75 | 7.00 | 0.78 | 1.00 |
| 7:06am | 24/1/2025 | Hospital | 0.98 | 7.15 | 0.49 | 0.68 |
| 7:06am | 24/1/2025 | School | 0.99 | 7.25 | 0.48 | 0.48 |
| 7:06am | 24/1/2025 | Water Info | | | | |
| 6:58am | 25/1/2025 | Raw Water | 300.00 | 8.35 | | |
| 6:58am | 25/1/2025 | Settler Tanks | 7.10 | 7.15 | | |
| 6:58am | 25/1/2025 | Sand Filters | 0.67 | 7.10 | | |
| 6:58am | 25/1/2025 | Carbon Filters | 0.70 | 7.25 | | |
| 6:58am | 25/1/2025 | Plant Output | 0.95 | 7.35 | 3.20 | 3.80 |
| 6:58am | 25/1/2025 | Reservoir | 1.10 | 7.45 | 1.21 | 1.45 |
| 6:58am | 25/1/2025 | 166 Munns Drive | | | | |
| 6:58am | 25/1/2025 | Hospital | | | | |
| 6:58am | 25/1/2025 | School | | | | |
| 6:58am | 25/1/2025 | Water Info | | | | |
| 7:56am | 26/1/2025 | Raw Water | | | | |
| 7:56am | 26/1/2025 | Settler Tanks | 7.50 | 6.90 | | |
| 7:56am | 26/1/2025 | Sand Filters | 0.70 | 6.98 | | |
| 7:56am | 26/1/2025 | Carbon Filters | 0.69 | 7.00 | | |
| 7:56am | 26/1/2025 | Plant Output | 0.80 | 7.10 | 3.25 | 3.65 |
| 7:56am | 26/1/2025 | Reservoir | 1.10 | 7.25 | 0.89 | 1.20 |
| 7:56am | 26/1/2025 | 166 Munns Drive | | | | |
| 7:56am | 26/1/2025 | Hospital | | | | |
| 7:56am | 26/1/2025 | School | | | | |
| 7:56am | 26/1/2025 | Water Info | | | | |
| 6:59am | 27/1/2025 | Raw Water | 300.00 | 8.40 | | |
| 6:59am | 27/1/2025 | Settler Tanks | 7.10 | 6.99 | | |
| 6:59am | 27/1/2025 | Sand Filters | 0.65 | 6.98 | | |
| 6:59am | 27/1/2025 | Carbon Filters | 0.70 | 7.15 | | |
| 6:59am | 27/1/2025 | Plant Output | 0.85 | 7.10 | 3.80 | 4.10 |

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|---------|-----------|-----------------|--------|------|------|------|
| 6:59am | 27/1/2025 | Reservoir | 1.01 | 7.25 | 1.21 | 1.54 |
| 6:59am | 27/1/2025 | 166 Munns Drive | | | | |
| 6:59am | 27/1/2025 | Hospital | | | | |
| 6:59am | 27/1/2025 | School | | | | |
| 6:59am | 27/1/2025 | Water Info | | | | |
| 6:58am | 28/1/2025 | Raw Water | 300.00 | 8.45 | | |
| 6:58am | 28/1/2025 | Settler Tanks | 6.10 | 7.10 | | |
| 6:58am | 28/1/2025 | Sand Filters | 0.70 | 7.15 | | |
| 6:58am | 28/1/2025 | Carbon Filters | 0.60 | 7.25 | | |
| 6:58am | 28/1/2025 | Plant Output | 0.85 | 7.25 | 3.80 | 4.01 |
| 6:58am | 28/1/2025 | Reservoir | 0.99 | 7.35 | 1.48 | 1.68 |
| 6:58am | 28/1/2025 | 166 Munns Drive | 0.75 | 7.00 | 0.60 | 0.80 |
| 6:58am | 28/1/2025 | Hospital | 0.98 | 7.15 | 0.49 | 0.60 |
| 6:58am | 28/1/2025 | School | 1.01 | 7.45 | 0.45 | 0.55 |
| 6:58am | 28/1/2025 | Water Info | | | | |
| 6:57am | 29/1/2025 | Raw Water | 289.00 | 8.35 | | |
| 6:57am | 29/1/2025 | Settler Tanks | 9.35 | 7.15 | | |
| 6:57am | 29/1/2025 | Sand Filters | 0.80 | 7.10 | | |
| 6:57am | 29/1/2025 | Carbon Filters | 0.60 | 7.25 | | |
| 6:57am | 29/1/2025 | Plant Output | 0.85 | 7.25 | 3.98 | 4.35 |
| 6:57am | 29/1/2025 | Reservoir | 1.10 | 7.35 | 1.10 | 1.35 |
| 6:57am | 29/1/2025 | 166 Munns Drive | 0.60 | 7.00 | 0.85 | 1.01 |
| 6:57am | 29/1/2025 | Hospital | 0.80 | 7.15 | 0.51 | 0.75 |
| 6:57am | 29/1/2025 | School | 0.98 | 7.45 | 0.49 | 0.65 |
| 6:57am | 29/1/2025 | Water Info | | | | |
| 7:14 am | 30/1/2025 | Raw Water | 260.00 | 8.40 | | |
| 7:14 am | 30/1/2025 | Settler Tanks | 7.10 | 7.10 | | |
| 7:14 am | 30/1/2025 | Sand Filters | 0.90 | 7.15 | | |
| 7:14 am | 30/1/2025 | Carbon Filters | 0.60 | 7.00 | | |
| 7:14 am | 30/1/2025 | Plant Output | 0.71 | 7.50 | 4.80 | 5.10 |

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|---------|-----------|-----------------|--------|------|---------|------|
| 7:14 am | 30/1/2025 | Reservoir | 1.10 | 7.00 | 1.40 | 1.72 |
| 7:14 am | 30/1/2025 | 166 Munns Drive | 1.10 | 7.25 | 0.70 | 0.85 |
| 7:14 am | 30/1/2025 | Hospital | 1.01 | 7.35 | 0.49 | 0.63 |
| 7:14 am | 30/1/2025 | School | 1.20 | 7.55 | 0.49 | 0.62 |
| 7:14 am | 30/1/2025 | Water Info | | | | |
| 6:21am | 31/1/2025 | Raw Water | 200.00 | 8.45 | | |
| 6:21am | 31/1/2025 | Settler Tanks | 10.60 | 7.00 | | |
| 6:21am | 31/1/2025 | Sand Filters | 0.70 | 7.00 | | |
| 6:21am | 31/1/2025 | Carbon Filters | 0.61 | 7.15 | | |
| 6:21am | 31/1/2025 | Plant Output | 0.89 | 7.25 | 6.00 >> | |
| 6:21am | 31/1/2025 | Reservoir | 0.99 | 7.45 | 1.14 | 1.54 |
| 6:21am | 31/1/2025 | 166 Munns Drive | 0.75 | 7.45 | 0.70 | 0.99 |
| 6:21am | 31/1/2025 | Hospital | 0.89 | 7.55 | 0.50 | 0.70 |
| 6:21am | 31/1/2025 | School | 0.99 | 7.75 | 0.49 | 0.61 |

2. Inaccurate Reporting Example

Woorabinda Aboriginal Shire Council Daily Water Tests

| | | | | | | | | | | | | |
|---------------|--------------------|------------------------|----------------------------------|----------------------------|--------------------------------|---------------------------------|----------------------------|-------------------|----------------------------|------------------|----------------|-----------------------|
| Day | 5 | Month | 1 | Year | 2025 | Source | Raw water | Supernatant | Reservoir Inlet | Reservoir Outlet | Bore | Creek |
| Sample Time | 6.14 | Morning | | Rainfall | | Meter Today | | | | 54786.66 | | |
| Sample Time | | Afternoon | | | | Meter today | | | | | | |
| Name | | | | | | Used | | | | | | |
| | TEST READINGS | | | | | | | | | SCREEN READING | | |
| MORNING | Turbidity NTU 1 | pH pH Units <8.5 | Total Alkalinity Mg/L <100 | Free Chlorine Mg/L 5 | Total Chlorine Mg/L <5.0 | Total Aluminium Mg/L <0.1 | Total Iron Mg/L <0.1 | True Colour <5 | Manganese Mg/L <0.02 | Turbidity NTU | pH pH Units | Free Chlorine Mg/L |
| Raw Water | | | | | | | | | | | | |
| Settled Water | | | | | | | | | | | | |
| Sand Filter | | | High | | | | | | | | | |
| Combined | | | NTU | | | | | | | | | |
| Carbon Filter | | | | | | | | | | | | |
| Plant Output | | | | | | | | | | | | |
| Reservoir | | | | | | | | | | | | |
| | TEST READINGS | | | | | | | | | SCREEN READING | | |
| AFTERNOON | Turbidity NTU 1 | pH pH Units <8.5 | Total Alkalinity Mg/L <100 | Free Chlorine Mg/L 5 | Total Chlorine Mg/L <5.0 | Total Aluminium Mg/L <0.1 | Total Iron Mg/L <0.1 | True Colour <5 | Manganese Mg/L <0.02 | Turbidity NTU | pH pH Units | Free Chlorine Mg/L |
| Raw Water | | | | | | | | | | | | |
| Settled Water | | | | | | | | | | | | |
| Sand Filter | | | | | | | | | | | | |
| Combined | | | | | | | | | | | | |
| Carbon Filter | | | | | | | | | | | | |
| Plant Output | | | | | | | | | | | | |
| Reservoir | | | | | | | | | | | | |
| | Today | | Yesterday | | Total | Chlorine Res | Today | | Yesterday | | Total | |
| | Today | | Yesterday | | Total | Chlorine WTP R | Today | | Yesterday | | Total | |
| | Today | | Yesterday | | Total | Chlorine WTP L | Today | | Yesterday | | Total | |

COMMENTS:

