Annual Review 2025

Tarrawonga Coal Mine

Name of operation	Tarrawonga Coal Mine
Name of operator	Whitehaven Coal Mining Pty Ltd
Development consent/project approval number	MP 11_0047
Name of holder of development consent/project approval	Tarrawonga Coal Pty Ltd
Mining lease number	ML 1579, ML 1685, ML 1693, ML1749
Name of holder of mining lease	Tarrawonga Coal Pty Ltd
Water licence number	WAL 31084
Name of holder of water licence	Whitehaven Coal
FWP start date	1/01/2025
FWP end date	31/12/2025
Annual review start date [1]	1/01/2025
Annual review end date	31/12/2025

I, Craig Sullivan, certify that this audit report is a true and accurate record of the compliance status of the Tarrawonga Coal Mine for the period 1st January 2025 until 31st December 2025, and that I am authorised to make this statement on behalf of Tarrawonga Coal Pty Ltd.

Note. a) The Annual Review is an 'environmental audit' for the purposes of section 122B (2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000. b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or $22,000, or both).

Name of authorised reporting officer	[redacted]
Title of authorised reporting officer	Operations Manager – Tarrawonga Coal Mine
Signature of authorised reporting officer	[redacted]
Date	30/03/2026

[1] *NSW Annual Review Guideline was released in October 2015*

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1 STATEMENT OF COMPLIANCE

The compliance status of the Tarrawonga Coal Mine (TCM) as at 31st December 2025 is summarised in Table 1-1 and Table 1-2 below.

Table 1-3 notes non-compliances that occurred during the reporting period, and non-compliances from previous reporting periods that still require management action. References to the Environment Protection Licence (EPL) are limited to those that relate to the Project Approval conditions, specifically Schedule 3 Condition 22, 28(c), 33 and 39(c)(ii).

Table 1-1 - Statement of Compliance

Were all conditions of the relevant approval(s) complied with (Yes/No)?	
MP 11_0047	No
ML 1579	Yes
ML 1693	Yes
ML 1685	Yes
ML 1749	Yes
WAL 31084	Yes

Table 1-2- Compliance status key for non-compliances

Risk Level	Colour Code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

Table 1-3 - Non-Compliance

Relevant Approval	Condition Number	Condition Description (summary)	Compliance status	Comment	Where Addressed in Annual Review
Not Applicable					

2 INTRODUCTION

This Annual Review (AR) for Tarrawonga Coal Mine (TCM) has been prepared in accordance with the NSW Government *Annual Review Guideline* (October 2015) and Condition 4 (Schedule 5) of MP 11_0047.

TCM is located approximately 16km east of Boggabri (Refer Figure 1 - Locality Plan). TCM is owned by Tarrawonga Coal Pty Ltd (TCPL) and operated by Whitehaven Coal Mining Pty Ltd (WCMPL). Biodiversity offset locations are shown in Figure 2 and.

Figure 3.

In line with the new standard rehabilitation conditions for all mining leases, TCM has prepared a Rehabilitation Management Plan (RMP) and a Forward Program (FWP) which took effect from 1st January 2023 with the newest iteration to commence on the 1st of January 2026. The AR follows the format required by the NSW Government *Annual Review Guideline* (October 2015). Though primarily covering the period from 1st January 2025 to 31st December 2025 (the reporting period), where relevant the AR provides information on historical aspects of the operations, longer term trends in environmental monitoring results and provides relevant information on activities to be undertaken during the ensuing period, (i.e. from 1st January 2025 to 31st December 2025, or beyond).

2.1 Mine Contacts

The management personnel responsible for operational and environmental performance at the TCM and their relevant contact details are as follows:

- [redacted]
-
-

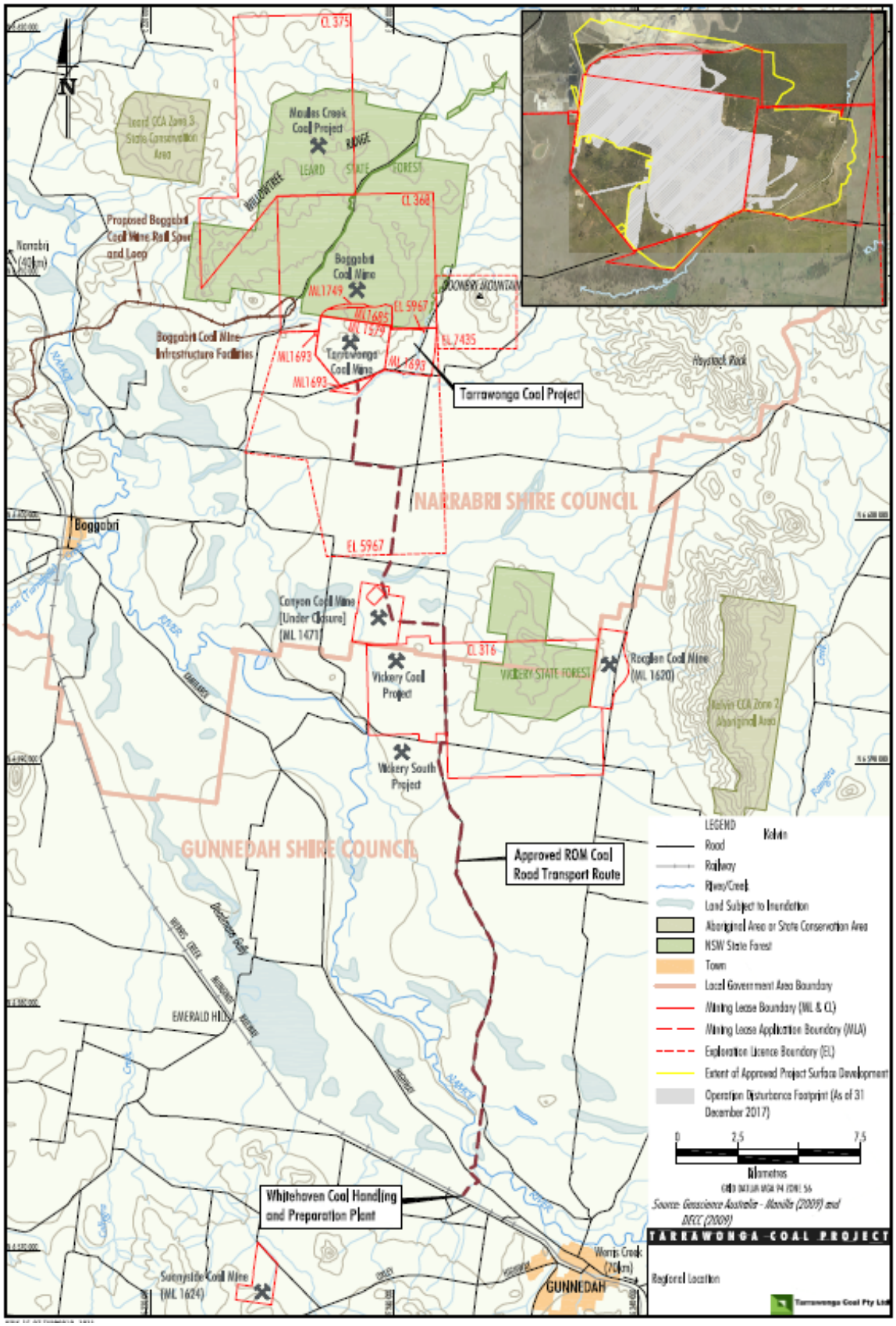


Figure 1 - Locality Plan

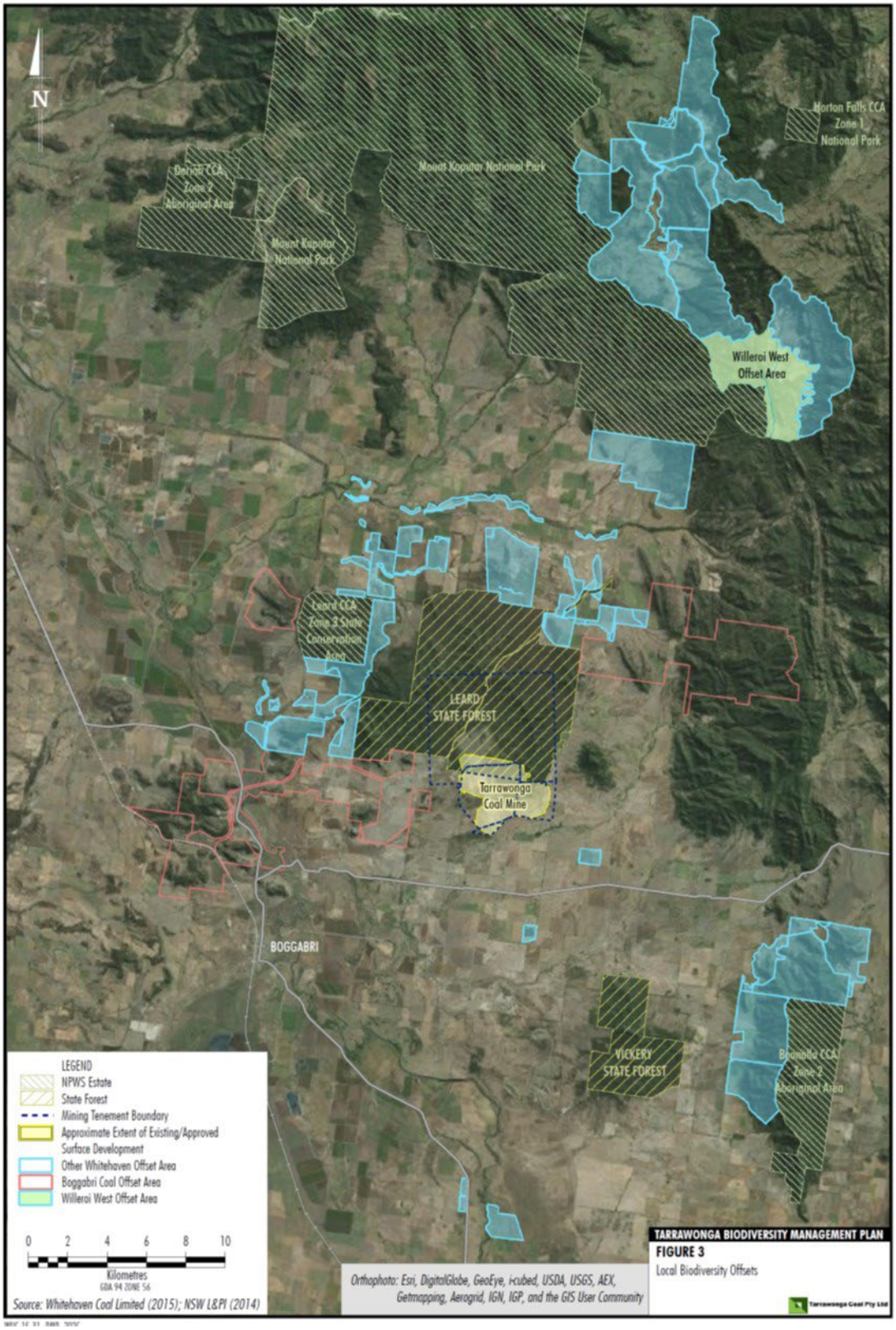


Figure 2 - Local Biodiversity Offsets

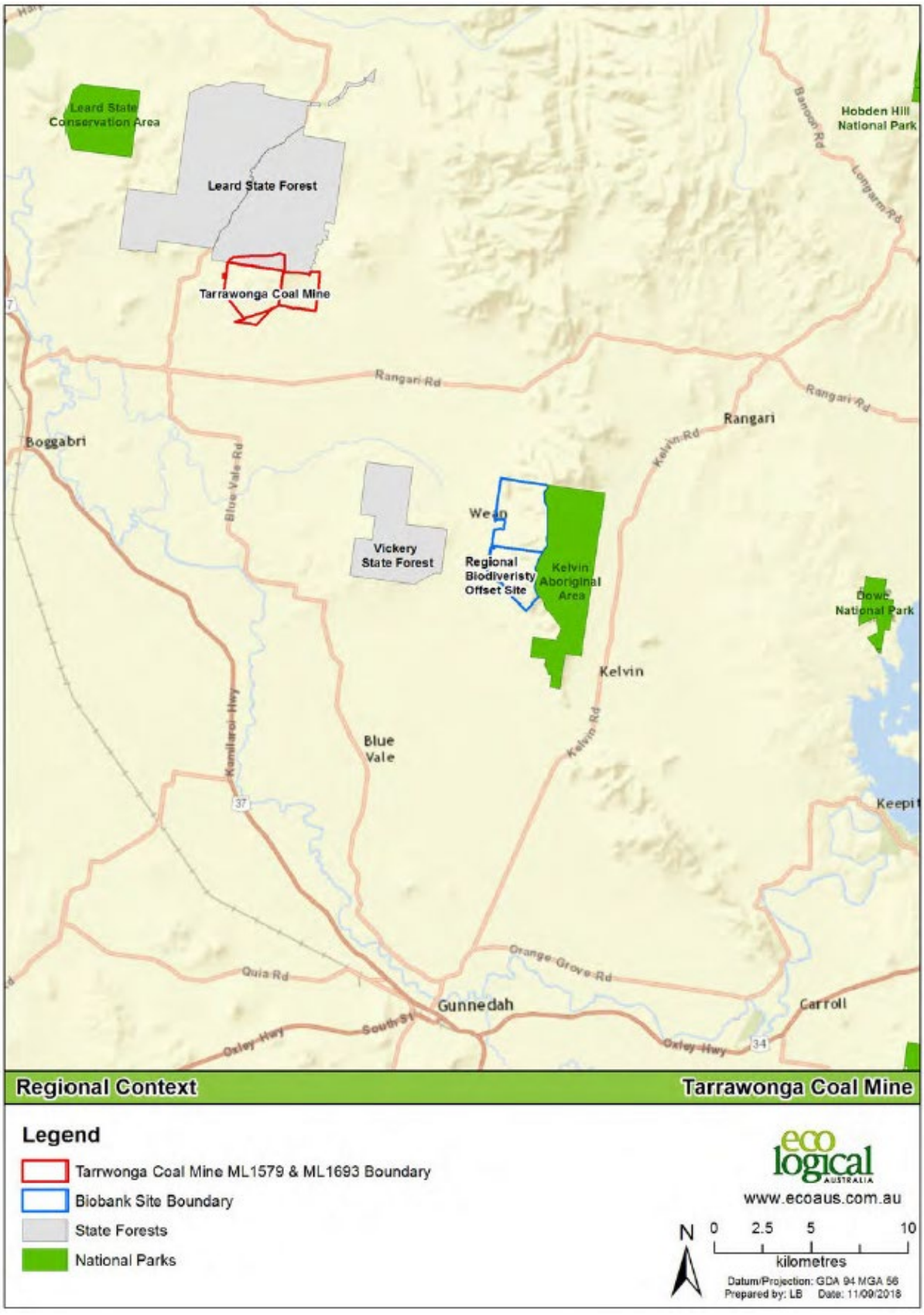


Figure 3 - Regional Location of Biobank Site

3 APPROVALS

3.1 Tenements, Licences and Approvals

Table 3-1 Identifies the approvals in place for the TCM at the end of the reporting period, the issuing/responsible Authority, dates of issue, expiry date and relevant comments.

Table 3-1- Tenements, Licences and Approvals

Issuing / Responsible Authority	Type of Lease, Licence, Approval	Date of Issue	Expiry	Comments
Division of Resources and Energy (DRE)	Exploration Licence (EL 5967)	09/09/2022	24/08/2027	
Environment Protection Authority (EPA)	Environment Protection Licence (EPL) No. 12365	09/01/2006	N/A	EPL12365
Environment Protection Authority (EPA)	Variation- Environment Protection Licence (EPL) No. 12365	13/12/2021	N/A	Variation
NSW Department Primary Industry - Water	90BL253276 90BL253278 90BL253279 90BL253280 90BL254253 90BL254254 90BL254255 90BL254221 90BL254214 90BL255766 WAL31084 WAL29548	18/05/2006 18/05/2006 18/05/2006 18/05/2006 18/05/2006 18/05/2006 24/04/2007 05/04/2007 04/04/2007 19/08/2012 02/08/2013 26/07/2012	Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity Perpetuity	Monitoring bores 250 units 50 units
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	22/01/2013	31/12/2030	
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	2014	31/12/2030	MOD1 (continued coal haulage to Gunnedah CHPP)
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	2016	31/12/2030	MOD2 (allow receipt of all types of coal reject)

Issuing / Responsible Authority	Type of Lease, Licence, Approval	Date of Issue	Expiry	Comments
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	February 2017	31/12/2030	MOD3 (Traffic Management Plan)
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	May 2017	31/12/2030	MOD4 (Sound Power Level modification)
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	August 2017	31/12/2030	MOD5 (Open Cut Augmentation)
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	October 2018	31/12/2030	MOD6 (Coal Haulage)
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	June 2020	31/12/2021	MOD8 (Trucking water) for 18 months
Department of Planning Infrastructure & Environment (DPIE)	Project Approval MP 11_0047	February 2021	31/12/2030	MOD7 (Life of Mine)
Department of Planning Infrastructure & Environment (DPIE))	Project Approval MP 11_0047	May 2021	31/12/2030	MOD9 (Disposal of Waste Tyres)
Department of Planning Infrastructure & Environment (DPIE))	Project Approval MP 11_0047	October 2023	31/12/2030	MOD10 (Road Haulage Hours)
Department of Agriculture, Water and Environment (DAWE)	EPBC 2011/5923	11/03/2013	31/12/2053	Conditional Federal Project Approval for LOM Project
Department of Regional NSW – Division of Mining, Exploration and Geoscience (DMEG)	Mining Lease (ML) 1579	03/04/2006	02/04/2027	Expires 21 years from commencement. Varied on 17 October 2022 to include the new standard conditions from *Mining Regulation*

Issuing / Responsible Authority	Type of Lease, Licence, Approval	Date of Issue	Expiry	Comments
				2016, Schedule 8A, Part 2.
Department of Regional NSW – Division of Mining, Exploration and Geoscience (DMEG)	Mining Lease (ML) 1685	18/07/2013	14/11/2032	Varied on 17 October 2022 to include the new standard conditions from *Mining Regulation 2016*, Schedule 8A, Part 2.
Department of Regional NSW – Division of Mining, Exploration and Geoscience (DMEG)	Mining Lease (ML) 1693	14/10/2013	14/10/2034	Expires 21 years from commencement. Varied on 17 October 2022 to include the new standard conditions from *Mining Regulation 2016*, Schedule 8A, Part 2.
Department of Regional NSW – Division of Mining, Exploration and Geoscience (DMEG)	Mining Lease (ML) 1749	17/11/2017	14/11/2032	Varied on 17 October 2022 to include the new standard conditions from *Mining Regulation 2016*, Schedule 8A, Part 2.
Division of Department of Regional NSW – Division of Mining, Exploration and Geoscience (DMEG)	Forward Program	1/1/2024	31/12/2024	FWP0001345
Department of Planning Infrastructure & Environment (DPIE))	Project Approval MP 11_0047	October 2025	31/12/2030	MOD11 (Haulage route does not exceed 3.8 million tonnes during the 2025 calendar year)

4 OPERATIONS SUMMARY

4.1 Mining Operations

Table 4-1 presents the production summary at the end of the reporting period.

Table 4-1 - Production Summary

Material	Approved Limit (Project Approval PA11_0047)	Previous Reporting Period 2024	This Reporting Period 2025 (actual)	Next Reporting Period 2026 (forecast)
Waste Rock/ Overburden (bcm)	***n/a***	20,455,182	16,739,800	16,253,903
ROM Coal/Ore (t)	***3,500,000***	1,900,922	1,424,240	1,294,971
Coarse and Fine Reject (t)	***700,000***	528,000	379,000	332,000
Saleable Product (t)	***n/a***	1,529,000	1,193,020	1,007,368
Gravel Production (m^3)	***90,000***	0	0	0

4.1.1 Other Operations

MP 11_0047 permits 24-hour operation of mining activities. Open cut mining activities, including processing of coal, generally occurred between the hours of 6:30 am and 5:00 pm (day shift) and 4:30 pm and 3:00 am (night shift) from Monday to Friday. Processing of coal on day shift also occurs almost every Saturday whereas mining activity on Saturday day shift has only occurred on an occasional basis to meet production deadlines.

4.1.2 Coal Haulage

For the reporting period 1,600,325 tonnes of coal were hauled along the approved haulage route from TCM to the Whitehaven Gunnedah CHPP. During the same period 36,367 tonnes of coal was distributed from TCM to the domestic market. There was 2,156764 tonnes of coal hauled from Vickery, and no coal hauled from Rocglen Coal Mine during the reporting period. The total tonnage of coal rejects received by TCM during 2025 was 379,000 tonnes. Transport of coal from the site or receipt of coal reject from the Whitehaven CHPP by truck has only occurred during the approved hours of:

(a) 4.00am am to 11.15 pm Monday to Friday;

(b) 5 am to 7.15 pm Saturday; and

(c) at no time on Sundays or public holidays.

4.1.3 Exploration

Exploration drilling for resource definition and geological investigation purposes was undertaken during the reporting period within the mining footprint. A total of 39 boreholes were completed inclusive of 2 core and 37 open holes. Full details of exploration activities are included in the Tarrawonga Open Cut Mine group annual reports.

Exploration drilling will continue to be undertaken at the TCM to further assess the coal reserves within the tenements. The current term of exploration license 5967 expires on the 24th of July 2027.

4.2 Next Reporting Period

4.2.1 Mine operations

The mine production rates planned for 2026 are 1,294,971 tonnes per annum of ROM coal and 16,253,903 bank cubic metres (bcm) of overburden during the next calendar year.

Vegetation clearing activities in mining areas over the next reporting period will be conducted in accordance with the approved Biodiversity Management Plan (BMP) and the updated Forward Program. The clearing program will be undertaken during the annual twelve week clearing campaign from the 15th of February to the 30th of April, except under exceptional circumstances and with the approval of the Secretary of the DPHI.

5 ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

The 2024 Annual Review was considered to satisfy the reporting requirements of the approval, and the document was accepted by the Department of Planning and Environment on the 03rd of June 2025.

6 ENVIRONMENTAL PERFORMANCE

The following sub-sections document the implementation and effectiveness of the various control strategies adopted at TCM, together with monitoring data for the reporting period. Life of mine monitoring data is included as Appendices in this AR, where relevant, to allow for discussion on longer-term trends.

6.1 Noise

6.1.1 Criteria

The Project Approval (MP 11_0047) and EPL 12365 describe the noise criteria for site operations and coal haulage as seen in Table 6-1.

Table 6-1- Noise Compliance

Noise Criteria dB(A)			
Location	*Day, Evening & Night LAeq (15 min)*	*Night LAeq (1 min)*	
All other privately-owned residences	35	45	
Road Traffic Noise Criteria dB(A) LAeq (1 hour)			
Location	*Day*	*Evening*	*Night*
Any residence on privately-owned land	60	60	55

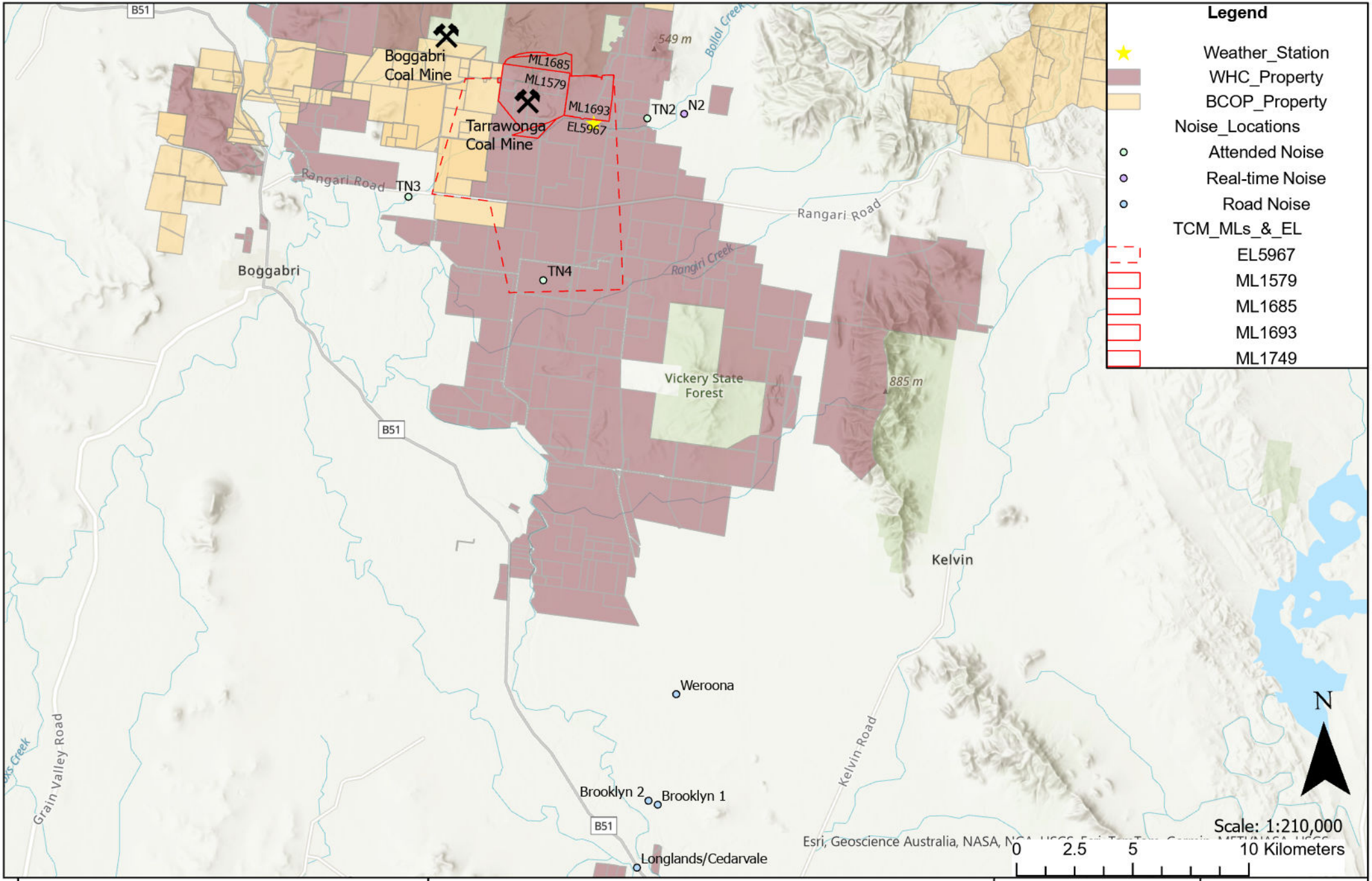
Note: Day = 7:00am –6:00pm; Evening = 6:00pm –10:00pm; Night = 10:00pm –7:00am

A number of other specific conditions (i.e. acquisition, monitoring protocols and cumulative impacts) are listed in the PA and EPL 12365.

6.1.2 Environmental Management Measures

In accordance with the Noise Management Plan, a number of operational measures continue to be implemented on site to maintain compliance with limits. These include but are not limited to:

- Real-time noise monitor and web-based interface;
- Automated SMS alarms notifying site personnel of elevated noise levels approaching noise criteria; and
- Modification of operations where required.



Whitehaven

Tarrawonga Coal Mine
Noise Monitoring Locations

Created by: TCM Environment
Date: Mar 2025

Spatial Reference
Name: GDA2020
MGA Zone 56

6.1.3 Key Environmental Performance

Attended Noise Monitoring

An independent consultant completed attended noise monitoring programs on a quarterly basis during the reporting period. The noise monitoring sites are identified on Figure 4 and include three sites: "Bungalow" (TN4), "Barbers Lagoon" (TN3) and "Matong-Coomalgah" (TN2) properties. Attended noise monitoring results are shown in the table below and show compliance with the criteria specified in the project approval on all occasions during the reporting period.

Table 6-2 - Attended Noise Monitoring results comparison

	TN2 – Coomalgah*			**Limits (day/evening/night/night)**
	2023	**2024**	**2025**	
Q1	<20 / <20 / <20 / <20	<20 / <21 / <20 / <20	22 / 21 / <20 / 28	**35 / 35 / 35 / 45**
Q2	<20 / <20 / 23 / <20	30 / 29 / 22 / 25	<20 / <20 / <20 / <20	
Q3	<20 / <20 / 24 / 31	<20 / <20 / 24 / 27	<20 / <20 / 27 / <20	**LAeq, 15min/LAeq, 15min/LAeq, 15min/LA1, 1min**
Q4	21 / 23 / 32 / 36	<20 / 29 / <20 / 32	<20 / <20 / 32 / <20	
	TN3 - Barbers Lagoon			
	2023	**2024**	**2025**	
Q1	<20 / <20 / <20 / <20	<20 / <25 / <20 / 34	<20 / <20 / <20 / 28	
Q2	<20 / <20 / 22 / 27	27 / 25 / 27 / 35	<20 / <20 / <20 / <20	
Q3	<20 / 28 / 26 / 30	<20 / 22 / 27 / 32	<20 / 25 / <20 / <20	
Q4	IA / IA / 28 / 32	<20 / <20 / 27 / 33	<20 / 31 / <20 / <20	1q
	TN4 – Bungalow			
	2023	**2024**	**2025**	
Q1	<20 / <20 / <20 / <20	24 / <20 / 31 / 35	<20 / <20 / <20 / 27	
Q2	<20 / 32 / 30 / 40	24 / 30 / 28 / 35	<20 / <20 / <20 / <20	
Q3	<20 / 27 / <20 / <20	<20 / 22 / 27 / 33	<20 / <20 / <20 / <20	
Q4	IA / 26 / IA / <20	<20 / 22 / 27 / 31	<20 / <20 / <20 / <20	

Note: Above values are the maximum or only measurements recorded for the indicated period.
Key:
IA = Mine noise inaudible
** = taken at TN2 monitor, 9dB reduction to nearest private property not added. Reading within compliance levels.*

Attended noise monitoring to date indicates that results are generally consistent with previous reporting year's results for all other measurements taken. The results of the mine noise levels attributed to TCM shows that it was below all applicable noise criteria in 2025.

Road Noise Monitoring

TCM is required to ensure that the noise generated by road transport along public sections of the coal haulage route was in accordance with the Tarrawonga Noise Management Plan and with Schedule 3 condition 12 of MP 11_0047.

Modification 10 to Project Approval MP 11_0047 has been implemented to incorporate an extension of haulage hours. The revised approved hours for haulage operations are now scheduled from 4:00 am to 11:15 pm, Monday through Friday, and from 5:00 am to 7:15 pm on Saturdays.

Road noise monitoring was undertaken in June and December 2025. The monitoring occurred at the privately owned residences on the "Weroona", and "Brooklyn" properties located off Blue Vale Road, and a representative location for the "Longlands/Cedarvale" properties on Kamilaroi Highway. Results showed compliance on both monitoring occasions, which is consistent with the predictions of the Whitehaven ROM Coal Haulage Modification Environmental Assessment for the southern section of the approval transport route.

Real Time Noise Monitoring

In accordance with the requirements of MP 11_0047 and EPL 12365, TCM continued to undertake real time noise monitoring and managed noise according to the Noise Management Plan during the reporting period.

Annual Sound Power Level Testing

In December 2025, Sound Power Level (SPL) testing of all the operating fixed and mobile plant was undertaken. According to MOD 4 (May 2017) of the MP 11_0047, there is no criteria applicable for SPL and levels identified in the Noise and Blasting Environmental Assessment (EA, 2011) are only used for comparison purposes. Each plant item was assessed for different types of activities (i.e. Dynamic and Stationary).

A comparison of SPL levels in Table 6-3 below indicates that the overall average measured values for the reporting period were generally consistent with the assumed and modelled values in the EA (2011), expected levels for the type of equipment and with previous years.

To ensure that all equipment is tested and that Production is not adversely affected, TCM's annual SPL testing continues to be conducted in consistency with other mines throughout NSW, so that all heavy plant is measured on a three yearly basis. The first monitoring program to reflect this was in 2025. Table 6-3 reflects this in that some plant was not available for testing.

Table 6-3 - Average Sound Power Levels against EA (2011)

Type	Average Overall - dB(A)			EA (2011) - Guidance Level
	2023	2024	2025	
Haul Truck - CAT 785C Dump Truck	N/A	N/A	N/A	*121*
Haul Truck - HITACHI EH4000-AC2	115	116	116	*116*
Haul Truck - CAT 789 Dump Truck	117.5	119	120	*121*
Water Carts	114[1]	114	114	*111*
Dozers	114	116	114	*116*
Frontend Loaders	112	112.5	N/A	*117*
Graders	106.5	N/A	108	*108*
Drills	N/A	117	N/A	*117*
Excavator – Hitachi EX5600	113.5	115	114	*115*
Crushing Plant	N/A	N/A	N/A	*113*

[1] CAT777D tested. EA SPL is for a CAT773C. Maules Creek EA LwA for CAT777 and CAT773 is 115dB.

[2] Note: N/A = Plant was not available for testing due to not being operated or was tested in previous years.

Acoustic model annual validation

An independent consultant was engaged to assess and validate the noise model prediction developed in 2011 against the monitoring results for 2025. The validation was conducted in accordance with Schedule 3 Condition 12(g) of MP 11_0047 and the Noise Management Plan (NMP) which states:

"In accordance with the requirements of the consent, TCM will seek validation of the tenth percentile methodology used in the noise impact assessment for the Tarrawonga Coal Project. This will be completed on an annual basis by the provision of a report from an appropriately qualified acoustical consultant, utilising the data obtained over a 12-month period from the monitoring program and providing a comparative assessment against the modelled predictions from the tenth percentile methodology."

Attended monitoring data for 2025 was compared against the 90th percentile (tenth percentile exceedance levels, statistically the 90th percentile) predicted noise contours for the worst case nighttime Year 5 scenario using the Environmental Noise Model software. Table 6-4 shows a comparison of the 2025 90th percentile operator attended measured noise levels against the corresponding 90th percentile predicted noise levels for each location.

Table 6-4 - Comparison of 2025 Attended Noise Monitoring against Year 5 TCM EA Noise Predictions

Location	2025 90th Percentile Measured Noise Level (dBA)	EA (2011) 90th Percentile Predicted Noise Level (dBA)[1]	Criterion (dBA)
Matong/Coomalgah	**33**	32	35
Bungalow	**26**	31	35
Barber's Lagoon	**29**	35	35

Note 1: 90th percentile predicted noise levels refer to the 10th percentile exceedance levels in accordance with the tenth percentile methodology.

As displayed in Table 6-4, all measured levels were below the modelled level, confirming that the model has not under-predicted noise levels at the receiver location.

6.1.4 Proposed Improvements to Environmental Management

The Introduction to Site (ITS) process is utilised to ensure commissioned new plant items were tested for sound power levels before use and fitted with noise suppressant technology as required.

6.2 Blasting

6.2.1 Criteria

Blasting criteria for the TCM are noted in MP 11_0047, and Condition L5 of EPL 12365.

- Blasting must only be carried out between 9.00 am and 5.00 pm, Monday to Saturday inclusive. Blasting is not allowed on Sundays, public holidays or at any other time without the written approval of the Director-General.
- A maximum of one (1) blast per day, unless an additional blast is required following a blast misfire and a maximum of 4 blasts per week averaged over a calendar year for the project:
- For non-project related residences, the overpressure level from blasting operations must not:
    - Exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over a period of 12 months; or
    - Exceed 120dB (Lin Peak) at any time.
- For non-project related residences, ground vibration peak particle velocity from the blasting operations must not:
    - Exceed 5mm/s for more than 5% of the total number of blasts over a period of 12 months; and
    - Exceed 10mm/s at any time, at any residence on privately owned land.

6.2.2 Key Environmental Performance

During the reporting period, 104 blasts were initiated.

There were no instances throughout the reporting period where two or more blasts were required to be fired in a single day.

The maximum ground vibration recorded at the compliance monitor during the reporting period was 0.68mm/s recorded at “Coomalgah” on 13th September 2025 which is below the consent criterion of 5mm/s.

All blasts on non-project related residences during the reporting period were within the ground vibration criteria.

The maximum overpressure recorded at the compliance monitor “Coomalgah” during the reporting period was 115.3dB on the 25th of November 2025. As this blast is a single exceedance over all 104 blasts for the reporting period (1 in 104 = ~0.9%), this overpressure exceedance maintains a rolling average of below 5% of all blasts under 115dB, therefor compliant within the approval condition.

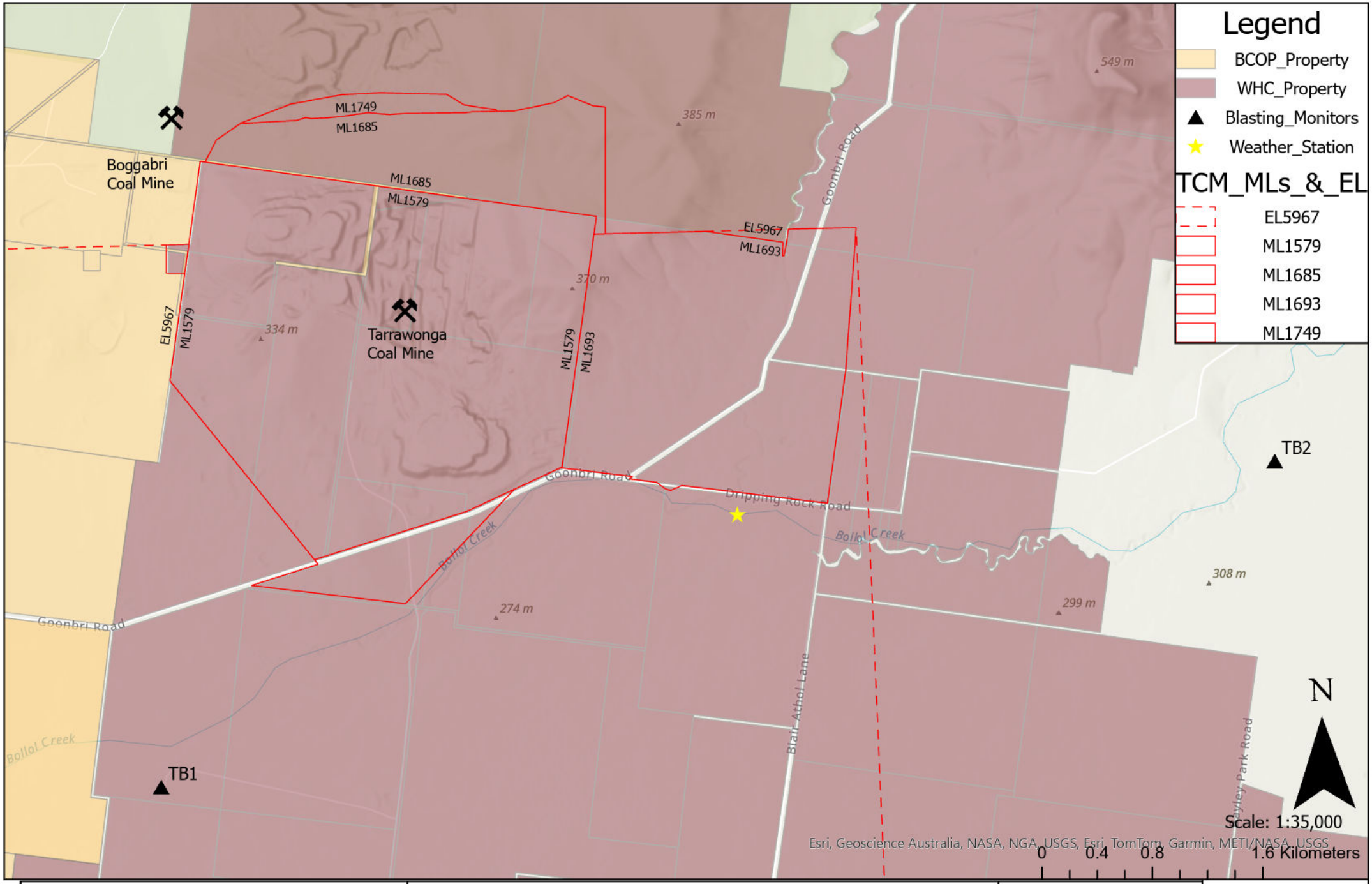
All blasts on non-project related residences during the reporting period were within the overpressure criteria.

Performance during the reporting period was consistent with the EA prediction for blasting.

The maximum fume rating for the reporting period was classified as a '2A' per the *Australian Explosives Industry and Safety Group Inc. – Code of Practice: Prevention and Management of Blast Generated NOx Gases in Surface Blasting*. No instances of blast fume leaving the premises boundary were recorded during the reporting period.

6.2.3 Proposed Improvements to Environmental Management

TCM updated the Blast Management Plan in June 2025.The main purpose of the update was the transfer to the new WHC Management Plan template. The management plan will be reviewed per the project approval conditions.



Whitehaven

Tarrawonga Coal Mine
Blast Monitoring Locations

Created by: TCM Environment
Date: Mar 2025

Spatial Reference
Name: GDA2020
MGA Zone 56

6.3 Air Quality and Greenhouse Gas

6.3.1 Criteria

The air quality criteria applicable to the TCM are specified in MP 11_0047 Schedule 3. Air quality criteria are summarised below:

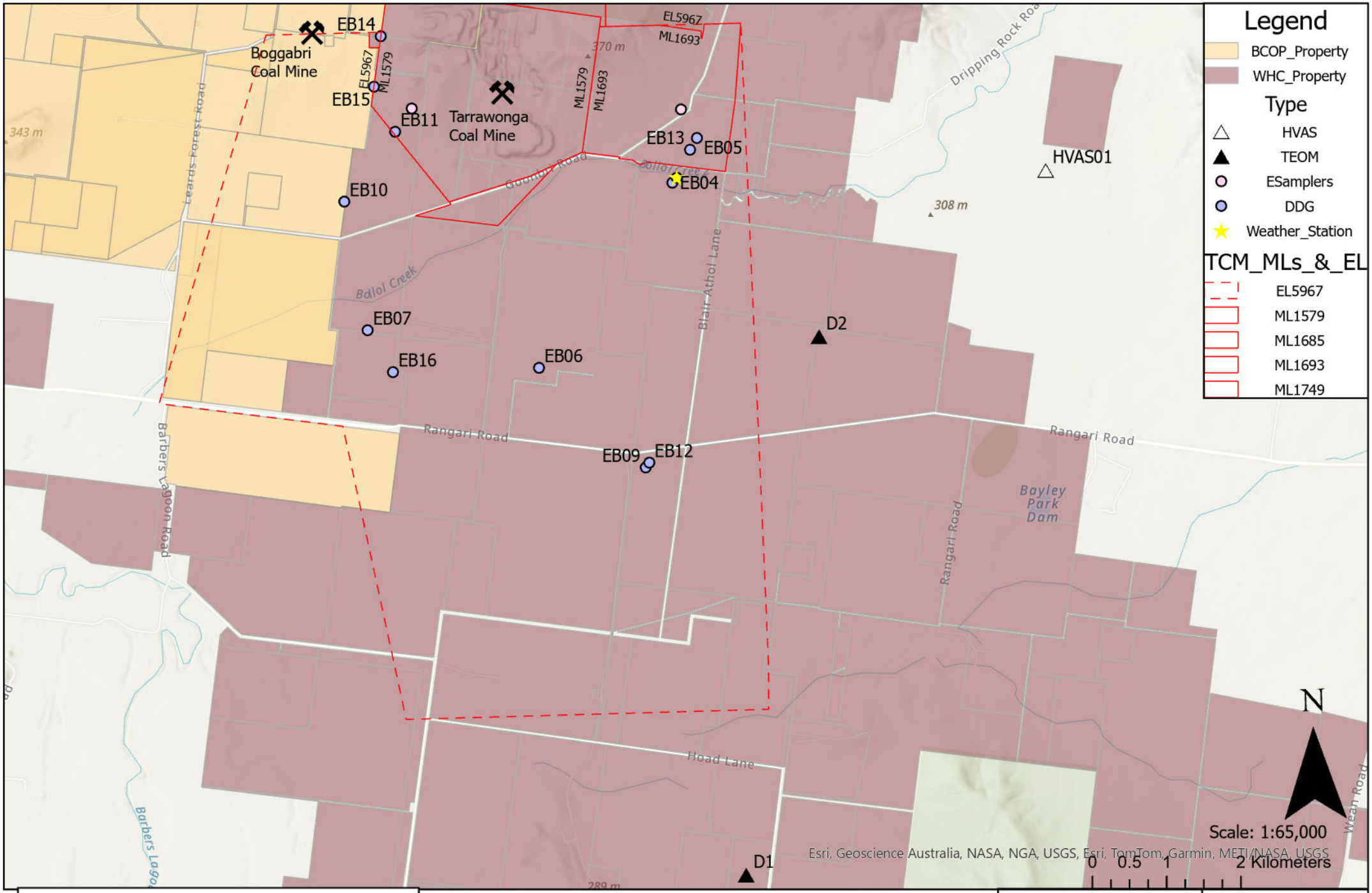
- Acceptable mean annual increase in deposited dust – 2g/m^2/month.
- Mean annual dust deposition (all sources) – 4g/m^2/month.
- Mean annual Total Suspended Particles (TSP) (all sources) – 90 µg/m^3.
- Mean annual Particle Matter under 10 microns (PM10) – 30 µg/m^3.
- 24-hour average PM10 particulate level – 50 µg/m^3.

6.3.2 Environmental Management Measures

TCM employs a range of air pollution control measures specified in the Air Quality and Greenhouse Gas Management Plan (AQGGMP), including:

- Maintaining a real time SMS alarming system to key operational personnel of higher trends in PM10 data at Flixton TEOM;
- Using a prediction and dust forecasting system;
- Modification of work practices where required including changing of excavation and dumping strategies;
- Limiting ground cover removal in advance of mining consistent with operational requirements;
- Dust suppression using water and dust suppressant additive products on haul roads and the use of water while drilling and crushing to reduce airborne dust emissions;
- Progressive shaping and rehabilitation of areas once they are no longer required for mining purposes;
- Speed limit restrictions on all vehicles and equipment on the mine site;
- Use of covers on the trays of all product coal trucks. All coal haulage vehicles (road trucks only), including those operated by sub-contractors, are fitted with roll-over tarpaulins.

Figure 6 displays the air quality monitoring locations including the deposited dust gauges (DDG), two Tapered Element Oscillating Micro balance units (TEOM) installed on project related properties (Flixton and Wil-gai), three mobile real-time dust samplers (E-samplers) installed near the mine boundary and one High Volume Air Sampler (HVAS) on privately owned property (Coomalgah) operating and serviced during the reporting period.



Whitehaven

Tarrawonga Coal Mine
Air Monitoring Locations

Created by: TCM Environment
Date: Mar 2025

Spatial Reference
Name: GDA2020
MGA Zone 56

6.3.3 Key Environmental Performance

Greenhouse Gas

GHG emissions are reported through participation in the National Pollutant Inventory (NPI) and as part of the Whitehaven Group in the National Greenhouse and Energy Reporting Scheme (NGERS). The total of Scope 1 and Scope 2 GHG emissions attributed to TCM reported for the

FY2025 reporting year were 68,377 t CO2-e. This shows a 10% decrease on FY2024 consistent with a slight decrease in diesel and ROM production in 2025 FY. The FY2025 EA prediction was 208,927 t CO2-e.

The fugitive emissions methodologies used for FY2025 GHG reporting and EA predictions are not directly comparable. EA predictions used Method 1, which applies a default emissions factor. FY2025 GHG reporting used Method 2, based on an operational emissions model. This model was developed from a comprehensive gas sampling program to determine site-specific emission factors for each coal seam. Fugitive emissions at TCM have been reported using Method 2 since 2016.

To enable comparison between EA predictions and reported emissions, fugitive emissions for the reporting year have been recalculated using Method 1. Method 2, and the associated emissions model, cannot be retrospectively applied to EA predictions, as the gas model depends on coal mined from seams during the reporting period.

24,593kL of diesel (stationery and transport use) was consumed in FY2025 equating to 66,642 tCO2-e GHG Emissions. The diesel emissions are higher than the EA prediction for FY2025 of 57,222t CO2-e.

Table 6 6 shows a comparison of the actual and recalculated total and scope 1 emissions using EA comparable methods against the EA 2012 predictions for 2025. Table 6-5: Comparison of Emissions Compared to Prediction in EA

	Predicted GHG Emissions (EA 2021)	Actual emissions FY23 (Method 2)	Recalculated emissions FY23 (Method 1)
Scope 1	208,927 t CO2-e	68,377 t CO2-e	164,186 t CO2-e
Total Emissions	208,927 t CO2-e	68,377 t CO2-e	164,196 t CO2-e

As displayed in Table 6-5, the actual and recalculated total and scope 1 emissions using an EA comparable method were below EA predictions.

Scope 2 emissions

Approximately 14,582 kWh electricity was purchased by the mine during the FY2025 reporting period equating to 10 t CO2-e GHG emissions. Tarrawonga is not connected to the electricity grid and relies on generators for power generation. The electricity purchased was from TCM owned properties that contain monitoring equipment. Since late 2022, WHC NSW operations including TCM have offset Scope 2 emissions by purchasing carbon neutral electricity.

Dust Deposition Gauges:

Table 6-6 details the monthly dust deposition levels measured at 10 dust deposition gauges (DDG). All monitoring locations, recorded average dust deposition below 4g/m2/month and within compliance with Sch 3 Cn 24 of MP 11_0047.

Table 6-6 - Deposited Dust monitoring data summary 2025 [g/month/m^2]

MONTH	TEMPLEMORE (EB-4) [1]	BOLLOL CREEK STN (EB-5) [1]	AMBARDO (EB-6) [1]	TARRAWONGA (EB-7) [1]	PINE GROVE (EB-9) [1]	TARRAWONGA MINE (EB-10) [1]	TARRAWONGA MINE (EB-11) [1]	TARRAWONGA MINE (EB-14) [1]	TARRAWONGA MINE (EB-15) [1]	JERALONG NORTH (EB-16) [2]
Jan-25	5.3c	1.8	0.8	1.3	1.3	4.3c	2.8	2.8	1.1	3.1c
Feb-25	3.0	1.6	0.9	1.2	0.6	1.9	4.4	2.9	1.2	5.5c
Mar-25	1.4	0.9	0.5	0.5	0.7	0.7	2.6	1.1	1.3	1.4
Apr-25	1.2	1.2	0.8	0.4	1.9	0.7	4.0	3.6	1.2	3.7
May-25	1.1	1.4	1.0	1.2	1.1	4.9	5.3	7.4c	1.9	0.9
Jun-25	1.1	1.1	0.7	0.6	0.7	0.9	5.5	4.3c	0.7	1.5
Jul-25	1.7	1.2	0.2	0.2	0.3	0.8	1.4	4.0c	0.6	0.5
Aug-25	4.2	0.8	0.2	0.4	0.6	0.8	4.3	1.3	0.7	0.6
Sep-25	1.4	1.1	0.6	1.1	0.8	4.2c	5.6	3.4	1.5	0.9
Oct-25	1.2	2.2	0.9	1.4	0.8	4.3c	3.8	3.1	3.2c	0.7
Nov-25	3.7c	3.1	1.9	3.0c	1.9	1.9	4.7	4.5c	3.2c	7.6c
Dec-25	5.1c	1.9	2.2	1.2	1.2	5.3c	2.7	3.7	6.2c	2.9
2025 Average	2.5	1.5	0.9	1.0	1.0	2.6	3.9	3.5	1.9	2.4

C= Results contaminated by deposits deemed unrelated to mining activities (bird droppings, insects and vegetation).

High Volume Air Sampler (HVAS)

TCM has one HVAS which is located at the privately-owned property "Coomalgah". All the results recorded at the HVAS are summarised in Appendix 2.

The PM_{10} annual average at Coomalgah was 13.7 µg/m^3, which is below the 30 µg/m^3 criterion specified in Schedule 3 condition 24.

PM_{10} measurements have been graphitised in Figure 7 and shows the trend from 2022 to December 2025 (excluding the values measured during days of "adverse weather").

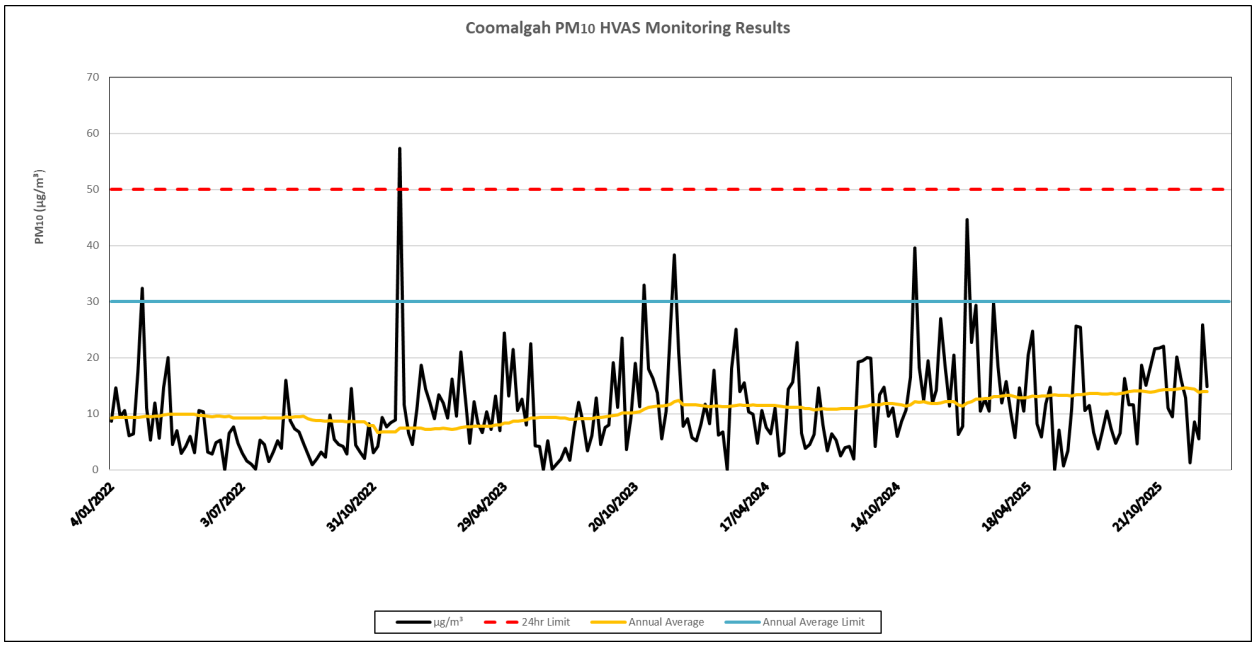


Figure 7 - HVAS-PM_{10} 24hr average monitoring data (2022-2025)

Total Suspended Particulate (TSP) is calculated from the measured PM_{10} data using monitoring conducted at the 'Coomalgah' HVAS. Results indicated the TSP rolling annual average remained below the applicable criteria of 90 µg/m for the reporting period. These are illustrated in Figure 8.

The EA predicted no exceedance of the annual average TSP criterion. TSP results inferred from PM_{10} data were consistent with the EA for the reporting period.

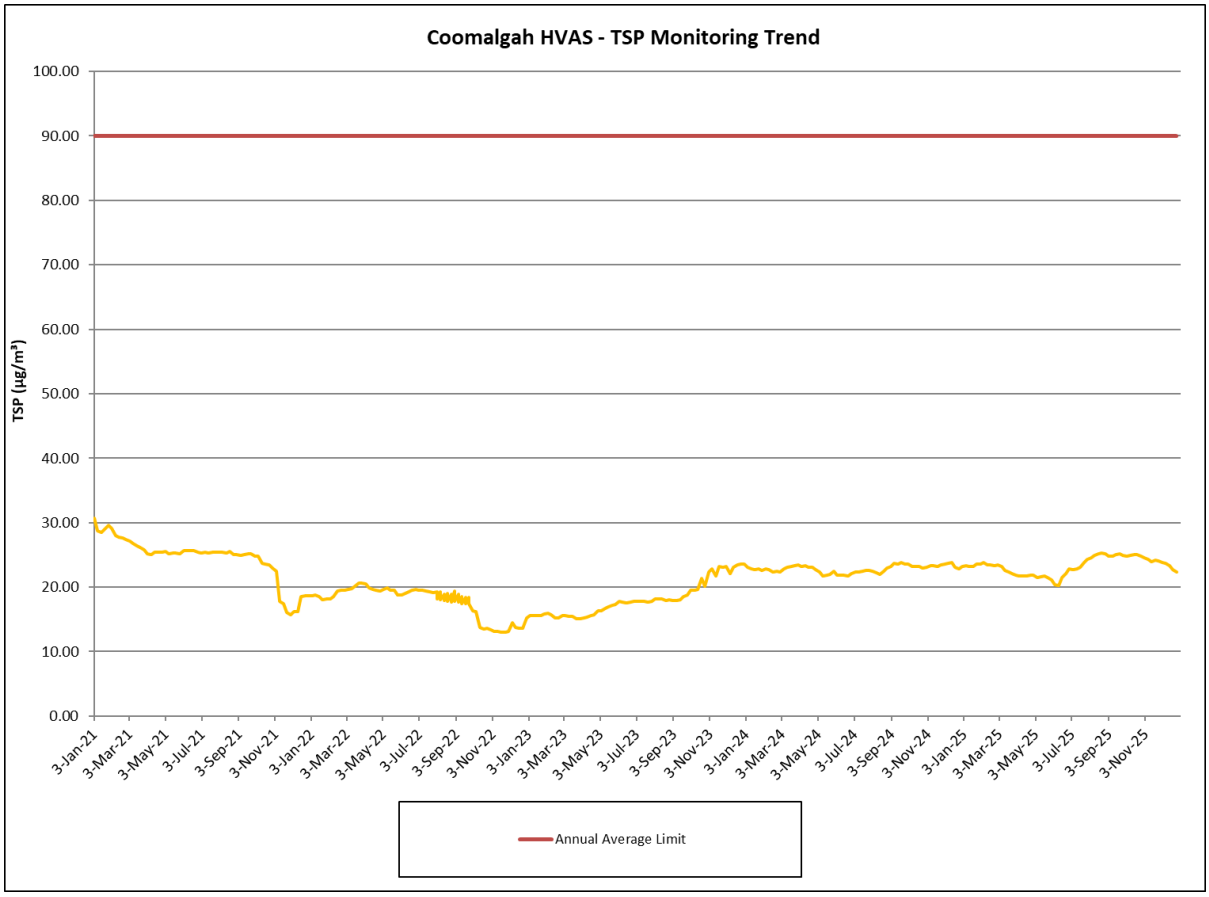


Figure 8 - Coomalgah HVAS- calculated TSP Monitoring Trend (2021 - 2025)

E-samplers

Three (3) E-samplers are installed on mine owned land (no criterion applies) and monitor continuously and real-time PM_{10} levels. The monitors are used as a management tool to facilitate the day to day mine operations and for investigation purposes.

TEOMs

Throughout the reporting period, the TEOM located on a mine owned property 'Flixton' monitored continuously and real-time PM_{10} levels. The monitor is used as a management tool to facilitate the day to day mine operations and therefore there is no criterion applicable at that location.

Results recorded at the $PM_{2.5}$ monitor on the project related property 'Wil-gai' remained generally consistent with those recorded during previous reporting periods for most of the year. The Air Quality Greenhouse Gas Management Plan (AQGHGMP) states that whilst no criteria apply, TCM will compare results against $PM_{2.5}$ annual average target level (no levels stipulated within the project approval) of 8.0 µg/m^3 and target level of 25µg/m^3 for 24hr average. Including all the valid $PM_{2.5}$ 24hr average values measured during the reporting period, the annual average calculated is 7.5 µg /m^3.
An air specialist prepared a report to assess TCM performance against the Key Performance Indicators (KPI's) listed in Table 6-5 of *Tarrawonga Coal Mine – Particulate Matter Control Best Practice Pollution Reduction Program (PRP)*. The assessment of KPI-1, KPI-2 and KPI-4 has shown that:

- KPI – 1 (PM_{10}/ROM (kilograms/tonne))

For 2025, calculated PM_{10} was 454,195kg/year and ROM was 1,609,187t/year giving a PM_{10}/ROM ratio of 0.3 (kg/t) which is a low value and is generally consistent with the baseline required and specified in the PRP.

- KPI – 2 (PM10 Emission Control (%)):

The level of control applied to operations has not changed since the PRP. As the level of dust control applied to activities at TCM has not changed from previous years the KPI-2 value would also be unchanged.

Table 6-7 - KPI – 2 Summary of PM10 control factor (TAS, 2025)

Mining Activity	Current Control Factor	Control Factor with additional best practicable controls.	K2y
Hauling on unsealed roads	75	80	94%
Unloading Coal to hopper	30	79	38%
Wind Erosion and Maintenance – Stockpiles	25	62.5	40%

- KPI – 4 (Water Intensity for Hauling (L/VKT)):

The calculated level of watering for KPI-4 during 2025 (ignoring the additional benefit of dust suppressant) is similar to the value required to achieve an average dust control efficiency of greater than 80% (noting that for the 2013-2014 period a control level of 89-94% was measured).

The mine implemented additional dust controls on the haul roads in the form of dust suppressant in 2018 to increase the control of dust and reduce the amount of water needed, which can affect the utility of the KPI as it stands. It can be seen in 2019, which was a drought year, the use of dust suppressant resulted in significantly less water required to maintain an 80% control level.

It is thus recommended that if a KPI for haul road watering/dust control is to be used in future, the KPI may need to be modified to account for the use of a dust suppressant (if used throughout the year) and also for any significant anomaly in the annual rainfall. Not accounting for these factors means that the KPI may not be as readily comparable between dry and wet years.

Nevertheless, the current KPI shows that sufficient water was added in 2025 to maintain the required control level (even when ignoring the additional benefit from dust suppressant).

6.3.4 Proposed Improvements to Environmental Management

The predictive air dispersion model system will continue to be implemented in accordance with the BTM Air Quality Management Strategy. The Air Quality and Greenhouse Gas Management plan will be reviewed, updated and submitted as necessary.

6.4 Biodiversity and Offsets

The revised Tarrawonga Offset Management Plan 2025 including the Revised Tarrawonga Biodiversity Offset Strategy (AMBS, 2024) was approved by NSW DPHI on 3 November 2025; initially by the Commonwealth DCCEEW on 25 July 2025 and subsequently notified of the administrative update to the OMP on 24 October 2025. The OMP outlines a Revised Biodiversity Offset Strategy (RBOS) for

Willeroi West (the approved Offset Area for the Tarrawonga Coal Mine (TCM)) of maintaining and improving 1,660ha of native woodland and forest adjacent to the south eastern boundary of Mount Kaputar National Park that is part of the original Willeroi property and collectively known as the Tarrawonga Biodiversity Management Area (BMA).

6.4.1 Weather Summary of Willeroi Offset Property

Regionally central meteorological station to the BMA is the Gunnedah Airport site (BOM 2025) which has recorded highly variable rainfall from the driest on record of 233mm back in 2019, followed by above average rainfall years in 2020, 2021 and 2022 of 844mm, 990mm and 860mm respectively (resulting in a numerous of major flooding events of the Namoi River). Subsequently 2023 and 2024, the Gunnedah Airport site (BOM 2024) recorded 496mm and 572mm which are closer to the annual average rainfall of 572mm. Flooding of the Namoi River was experienced again in August 2025 with a return to above average annual rainfall for 2025 of 755mm. WHC maintains a meteorological station within the Tarrawonga BMA and a summary of weather conditions experienced during the 2025 reporting period being the maximum monthly average temperature was 31°C in January 2025. Minimum monthly average temperature was 7°C in July 2025. Annual temperature ranges were 2°C to 37°C in 2025. The total annual rainfall in 2025 was 662mm with the maximum in March (105mm) and minimum in June (21mm).

6.4.2 Infrastructure Management

Existing fencing, signage and gates continue to restrict unauthorised access and minimise livestock incursion with no additional infrastructure or fencing work required on the Willeroi West BMA during the reporting period. Any remaining derelict assets/infrastructure items will continue to be assessed, removed, and remediated as required prior to potential transfer of the Willeroi BMA to National Park Estate.

6.4.3 Seed Management

The routine seed assessments for the Tarrawonga BMA aims to identify on a seasonal basis the life cycle stage and development of native plants to identify what, where, when and how to target appropriate resources to collect seed for future revegetation programs. As there were no revegetation works during the reporting period, there was no seed required to be collected across the Willeroi West BMA.

6.4.4 Revegetation Management

The Tarrawonga BMA revegetation strategy focuses on restoration and revegetation of previously cleared non-native grassland and derived native grasslands and assisting natural regeneration in better quality woodland areas. The revegetation program was successfully completed for the Willeroi West BMA in the 2019 reporting period with good survival achieved to date. There was no additional revegetation works required on the Tarrawonga BMA during this reporting period.

6.4.5 Flora and Fauna Monitoring Program

The 2025 ecological monitoring program of the Willeroi West BOA included winter bird surveys that were undertaken in July and August 2025; fauna surveys involved 27 bird survey sites, 12 echolocation sites, 4 harp trap sites, 15 active forage sites, 7 passive acoustic recorder sites, 10 motion detection camera sites completed between January 2025 and December 2025 and annual spring flora monitoring of 25 plots across four vegetation zones (VZs) undertaken during September 2025.

During the winter bird surveys, four threatened species (Dusky Woodswallow, Diamond Firetail, Little Lorikeet, and Turquoise Parrot) were recorded. Monitoring results from diurnal bird surveys recorded an overall total of 91 bird species at 27 bird survey sites compared to 97 species in 2024. For remnant woodland sites, diurnal bird surveys recorded 74 bird species (average 20.7, range 15-26). For naturally regenerating sites, diurnal bird surveys recorded 78 species naturally sites (average 19, range 10-28). For revegetation/rehabilitation sites; diurnal bird surveys recorded 42 species (average 9.6, range 7-12). Monitoring results from microbat surveys recorded an overall 22 species (positively identified from echolocation recordings) across 12 echolocation sites including 7 species listed as threatened under the BC Act. Species richness from microbat surveys recorded 19 species at remnant woodland sites (average 10.3, range 4-15), 17 species in naturally regenerating sites (11.25, range 10-14) and 15 species in revegetated sites (average 8.66, range 6-12). Monitoring results from active forage surveys recorded an overall 21 species of vertebrate fauna captured across 15 active forage sites. Species richness from pitfall trap surveys recorded 15 species in remnant woodland sites (average 5, range 4-7), 9 species in naturally regenerating sites (average 3.67, range 3-5) and 6 species in revegetated woodland sites (average 1.2, range 1-2). A total of 21 species of animal were detected on the motion detection cameras, including 7 introduced species each.

During flora monitoring, three VZs (VZ 14, 15 and 17) were recorded as meeting or exceeding completion criteria for all four biometrics. Native plant species richness (NPS) completion criteria (native species richness benchmark for relevant biometric vegetation communities) were met or exceeded at all four VZs. Native overstorey cover (NOS) completion criteria (minimum benchmark for

relevant biometric vegetation communities) was met or exceeded at 3 out of 4 VZs. Native midstorey cover (NMS) completion criteria (minimum benchmark for relevant biometric vegetation communities) was met or exceeded at all four VZs. Native ground cover grass (NGCG) completion criteria (minimum benchmark for relevant biometric vegetation communities) were met or exceeded at all four VZs. Comparison of individual plot data shows that NPS increased from 24 out of 25 plots meeting or exceeding completion criteria in 2024, to all 25 plots in 2025. Native overstorey cover (NOS) increased from 18 out of 25 plots meeting or exceeding completion criteria in 2024, to 19 out of 25 plots in 2025. Native midstorey cover (NMS) remained consistent between 2024 and 2025, with 18 out of 25 plots meeting or exceeding completion criteria in both years. Native ground cover grass (NGCG) remained consistent between 2024 and 2025, with 24 out of 25 plots meeting or exceeding completion criteria in both years.

6.4.6 Habitat Management

During the reporting period, habitat augmentation was undertaken with 17 new nest boxes targeted for Small Gliders, Microbats, Turquoise Parrots and Pale-headed Snakes installed on the Tarrawonga BMA. This brings the total habitat augmentation constructed on Tarrawonga BMA to 154 nest boxes since 2021 in accordance with the Leard Forest Regional Biodiversity Strategy.

The Leard Forest Regional Biodiversity Strategy (Umwelt, 2017) Stage 2 Strategy considered adaptive management such as ecological thinning for Box Gum Woodland restoration. Since 2020, an Ecological Thinning Assessment (Stage 1 AMBS, 2020) concluded that there was no evidence of direct impacts from Callitris (Cypress Pine) regrowth to native plant species richness (composition) or density (structure) within remnant Box Gum Woodland vegetation communities. Further Ecological Thinning Assessment (Stage 2 AMBS, 2022) concluded that no areas on MCCM BMA supported inappropriate Callitris regrowth therefore ecological thinning management could not be justified at this point in time. Follow up Ecological Thinning Assessment (Stage 3 AMBS, 2024) did not find any substantive change between Callitris regrowth and biodiversity values supporting the conclusion that ecological thinning is not required but should be repeated in 5 years' time to reevaluate the potential correlation between cover and diversity of Callitris in Box Gum Woodland overtime.

6.4.7 Pest Animal Management

WHC aims to apply an even and consistent pest animal management effort by routinely scheduling rolling monitoring and control programs across the Tarrawonga BMA. This standardised approach can also be supplemented with periodic targeted programs that focus on specific areas with high pest animal detection, or, on species which have increasing rates of detection. Both the overall

management and targeted programs are planned using data collected from grid-based motion detection camera monitoring program, pest animal observations and the results of previous control programs. Monitoring demonstrated that certain animals like Eastern Grey Kangaroos were highly detectable across the year plus Feral Pigs, Feral Goats, Foxes and Feral Rabbits/Hares moderately detectable seasonally. All other pest animal species had scarce to low detection levels across 2025. The pest animal monitoring ensures that timely and prioritised pest animal control is undertaken on a seasonal basis identifying what, where, when and how to target appropriate resources across the Tarrawonga BMA for pest animal management. During the reporting period, WHC implemented a pest animal control program across the Tarrawonga BMA with routine 1080 canid pest ejectors as well as Hoggone baits and trapping programs as well as Open Range Shooting undertaken throughout 2025. During the reporting period, there were 35 canid pest ejectors triggered from 114 deployed and 40 Hoggone baits consumed from 102 presented across the Tarrawonga BMA. A further 6 Feral Pigs were trapped and removed from the Tarrawonga BMA. Open range shooting programs were implemented in conjunction with the other pest animal programs resulting in an additional 4 Feral Pigs being controlled in 2025. Feral Goat mustering continued during the reporting period resulting in 100 Goats being captured with saleable Goats on sold to an abattoir. Only appropriately qualified and experienced feral animal contractors (appropriate feral animal management qualifications, NSW firearm licence and pesticide accreditation where relevant) were engaged to undertake feral animal control works for WHC.

6.4.8 Grazing Management

Tarrawonga BMA was destocked in 2015 and continued to be destocked with no strategic grazing occurring during the reporting period. There were no instances of stock incursion during the reporting period.

6.4.9 Soil & Erosion Management

Annual inspections were undertaken including unsealed access tracks and associated drainage structures across the Tarrawonga BMA to review appropriate erosion and sediment control measures required in accordance with the Blue Book (Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom 2004)). A total of 13 observations were recorded within the Tarrawonga BMA with no locations requiring targeted additional track maintenance. The remaining tracks/drainage structures are maintained during routine access track maintenance program. There are also a number of legacy erosion sites inherited from previous owners' management regimes that are subject to a separate annual inspection process and updates to the WHC erosion register made. During the

reporting period, monitoring or remediation actions and investigations commensurate to the risk were undertaken for the erosion sites identified within Tarrawonga BMA.

6.4.10 Weed Management

WHC coordinated routine weed monitoring and inspections undertaken across Tarrawonga BMA in March, August and November/December 2025. The priority weeds identified were Coolatai Grass, Prickly Pear, Velvet Tree Pear, Sweet Briar, Noogoora Burr, Bathurst Burr, St John's Wort and Green Cestrum. The weed monitoring/inspections ensure that timely and prioritised weed control is undertaken on a seasonal basis with the information directly given to spraying contractors to identify what, where, when and how to target appropriate resources across the Tarrawonga BMA for weed control. During the reporting period, WHC implemented a weed control program of the Tarrawonga BMA including 14.5ha being treated in May and December 2025 targeting primarily broadleaf weeds within revegetation areas and along access tracks as well as Green Cestrum as required within the Willeroi West BMA. Only appropriately qualified and experienced weed contractors (AQF3 accreditation or higher for use of herbicide) were engaged to undertake weed control works for WHC.

6.4.11 Audits and Reviews

The previous Tarrawonga Independent Biodiversity Audit 2023 found no non-compliance with the BMP as the revegetation is progressing adequately towards the completion criteria and no non-compliance with the RMP but had two recommendations to improve the Mine Rehabilitation. The next TCM Independent Biodiversity Audit will be in 2026, and the completion of the Leard Forest Regional Biodiversity Strategy Stage 3 Review will occur in 2026 with the site inspection scheduled for the first half of the year. Next TCM Independent Biodiversity Audit is due by the end of September 2026.

6.4.12 Clearing

6.4.12.1 Flora

During the 2025 pre-clearing survey, a qualified ecologist tagged 25 habitat features including 14 habitat bearing trees, 8 Habitat bearing stags, 1 fallen log and 2 nests recorded within the overall area to be cleared (~12.9Ha). The ecologist was present during clearing activities in accordance with the Biodiversity Management Plan (BMP).

Tylophora linearis was also detected in the clearing supervisions, and ecologists translocated and potted approximately 3 individual stems/cuttings. Due to the low survivability rate of this species once potted, Tarrawonga has had no success keeping these translocated stems alive during the remainder

of the year in a greenhouse environment, therefore, with these individuals they were directly transplanted into selected rehabilitation.

6.4.12.2 Fauna

During the pre-clearing surveys, two fauna species were recorded in two nights of spotlighting. These were the Common Brushtail Possum (*Trichosurus vulpecula*) and audibly heard Australian Boobook (*Ninox boobook*) determined to be external to the area.

Over the duration of the clearance, all habitat features were cleared. No fauna was recorded during the clearing works.

6.4.13 Key Environmental Performance

TCM successfully registered a Conservation Agreement on 24 June 2021 over the land titles for the Tarrawonga BMA as required by the RBOS including Willeroi West Offset Area. The Conservation Agreement was secured under Part 5 Division 3 of the Biodiversity Conservation Act 2016 and thus completing the in perpetuity legal mechanism required by the Commonwealth EPBC Act Approval 2011/5923 Condition 10 and NSW Project Approval 11_0047 Schedule 3 Condition 46. Across 2025, WHC continued consultation with NPWS having previously shown interest in the Willeroi biodiversity property being transferred to National Park Estate.

6.4.14 Proposed Improvements to Environmental Management

The TCM BMP – Biodiversity Management Plan will be reviewed and submitted to the DPHI within 2026.

6.5 Aboriginal Heritage Management

6.5.1 Environmental Management Measures

During the reporting period, annual heritage inspections were completed on the 19 known heritage (Aboriginal archaeological) sites within the Tarrawonga BMA. Heritage sites are maintained with 1.8km of demarcation fencing around the heritage site perimeter and signage to mitigate access and inadvertent disturbance. During the reporting period, there were no new heritage sites identified however 6 sites were added as a result of the boundary realignment between Willeroi West and East BMAs.

The Aboriginal Heritage Conservation Strategy (AHCS) was approved by the former DPIE in November 2017 in accordance with PA 10_0138 Schedule 3 Condition 57 outlining an approach for conserving regional Aboriginal heritage values within the BTM mines and associated Biodiversity Offset Areas including assessing Cultural Values. The initial Cultural Values Surveys was acknowledged by the former DPIE on 29 June 2020 as fulfilling a number of commitments of the AHCS including endorsement by Registered Aboriginal Participants involved in the survey. Following other BOS revision and Conservation Agreement registration in 2024 within the BTM mines, the Cultural Values Surveys were completed, and a final Cultural Values Report was consulted with the Registered Aboriginal Participants and acknowledged by the DPHI on 1 September 2025 as satisfying several keys commitments of the AHCS. DPHI accepted that WHC will now supersede the previous AHCS to formally document the implementation and completion of all AHCS actions and commitments including an 'On-Country' event with access and educational opportunities.

6.5.2 Key Environmental Performance

The HMP was reviewed in 2024 to conform to WHC new template and was submitted and approved by DPHI in August.

6.5.3 Proposed Improvements to Environmental Management

No specific management procedures are required.

6.6 Bushfire Management

6.6.1 Environmental Management Measures

The Tarrawonga BMA annual fuel load monitoring was undertaken between September and December 2025 as part of planning and assessment of bushfire hazard and ecological burn program for 2026; with the results indicating an overall moderate fuel loads present. During the reporting period there were no controlled ecological burns or bushfires on the Tarrawonga BMA. Other fire management implemented by WHC during the reporting period was access track maintenance carried out over 60.7km to a zero-fuel barrier standard across the Tarrawonga BMA. WHC maintains regular communications throughout the reporting period with both the Liverpool Range and Namoi-Gwydir Zone RFS teams around planning of ecological burn programs as well as maintaining contact points in case of emergency. WHC maintains a specialist firefighting contractor for an on-call engagement during the fire season to respond in the event of a bushfire on Tarrawonga BMA and non-mining lands.

6.6.2 Key Environmental Performance

No instances occurred where TCM was required to assist the RFS team or any other landholder or body.

During the 2025 reporting period, the TCM reviewed Bushfire Management Plan is awaiting tabling at the Narrabri Local Emergency Council Meetings.

6.6.3 Proposed Improvements to Environmental Management

TCM will continue to engage with the local RFS and with the community via CCC meetings and their members. TCM will continue to conduct mowing and slashing activities along access roads and tracks to keep grass at acceptable levels.

6.7 Meteorological Data

Meteorological monitoring is conducted onsite in accordance with Schedule 3 Condition 30 of the MP 11_0047. Table 6-8 summarises the monthly meteorological conditions at TCM for the 2025 reporting period.

The total annual rainfall for the reporting period was 805.2mm and the maximum monthly rainfall was recorded during March with 181mm.

A minimum temperature (10m) of -1°C was recorded in July and a maximum temperature of 38.4°C in January. Prevailing winds were predominantly Southerly throughout the entire year .

Table 6-8 - Templemore weather station monitoring data 2025

Month	2m Temperature (°C)			10m Temperature (°C)			Average Wind Speed (m/s)	Prevailing Wind Direction	Monthly Rainfall (mm)
	Min	Mean	Max	Min	Mean	Max			
January	10.2	24.6	38.6	14.4	26.1	38.4	3.18	175 (S)	50.2
February	7.9	24.3	35.4	12.8	25.9	35.9	2.62	161 (SE)	36.4
March	14.6	22.6	236.6	17.5	24.3	37	3	151 (SE)	181
April	5.08	16	27.4	9.1	18.4	28.4	2.2	141 (SE)	101
May	2.5	13	22.8	6.5	15.4	24.1	2.1	148(SE)	64.8
June	-4.3	7.3	19.6	0.2	10	20.5	1.9	170(S)	21.2
July	-4.5	8.3	20.2	-1	10.9	21	2.5	182(S)	73.8
August	-2.7	9.3	22	0	11.7	23.2	2.2	149(SE)	99.2
September	-1	12.8	28.8	3.4	15.6	29.9	2.2	162(S)	39.8
October	0.5	18.9	35.8	6.6	21.6	36.5	2.6	174(S)	38.8
November	1.2	21	37.5	8.1	23.1	37.5	2.8	183(S)	57.4
December	3.7	23.1	38.1	8.5	25.1	38.3	2.8	177(S)	41.2
Total									**805.2**

6.8 Waste

6.8.1 Environmental Management

During 2025, TCM continued its engagement with the contractor (Namoi Waste Corporation) that is responsible for the collection and management of the entire waste streams generated at the mine.

All waste removed from site for disposal or recycling during the reporting period is summarised in Table 6-9.

Table 6-9 - Waste management summary

Waste Stream	Container size	Unit of Measure	2025	2024	2023	2022
General Waste	**3m³**	**Kg**	276,651	45,116	48,615	275,675
Tyres*	**n/a**	**each**	129	171	-	69
Batteries **	**As listed**	**Kg/ each**	1,080	4 pallets	-	84 Batteries
Waste Oil	**IBC**	**L**	151,600	261,700	263,800	209,700
Oil Filters	**3m³**	**Kg**	7,736	13,070	7.850	9,455
Hydraulic Hoses	**3m³**	**Kg**	1,383	5,340	5,900	2,410
Coolant	**IBC**	**L**	14,000	9,000	1000	0
Grease	**N/A**	**L**	-	-	-	1000
RimTreat	**IBC**	**L**	4,000	4,000	8000	3000
Scrap Metal* **	**15m³**	**Kg**	44,780	54,420	19,755	33,000
Cardboard	**10m³**	**Kg**	15,015	13,005	13,620	9,485
Timber	**15m³**	**Kg**	23,868	5,160	2,940	1,020
Septic Waste	**Pumped out**	**L**	238,500	229,500	243,300	223,158

Paper/Plastic/ Aluminium Can	**240Lts**	**Kg**	**3,286**	60.9	-	2,410

**Heavy machine Tyres were reused onsite for traffic management, dispose of in pit as per EPL12365 licence, or are in a storage area pending disposal; **Battery Type N200, N150 & N70 donation to Westpac helicopter; ***Major clean-up of the yard; n/a not applicable or data not available; #to be able to assess performance over the years, TCM has extrapolated using values provided by the Waste contractor from August to December 2018. ## coolant is stored onsite in a 10kL tank that is emptied by the waste contractor before it reaches 100% capacity*

In November 2024=5, TCM disposed of 129 OTR tyres that had been historically stockpiled on site. TCM disposed of these in pit in accordance with EPL 12365.

86.5kg of archived documents were also shredded through the contractor during the reporting period.

6.8.2 Key Environmental Performance

During the reporting period no incidents relating to waste management occurred.

Tarrawonga continued its on-site bottle and can recycling program, partnering with the Boggabri Lions Club to transport materials to local Return and Earn facilities. A total of 3,286 containers were recycled during the reporting period, with all proceeds donated directly to the Boggabri Hospital Auxiliary. This initiative will continue into the next reporting period.

6.8.3 Proposed Improvements to Environmental Management

Tarrawonga continually aims to reduce waste via continual improvement of initiatives including recycling (oils, greases, scrap steel and domestic recyclables) and increasing tyre life through education and training of machine operators.

6.9 Environmental Performance Summary

An environmental performance summary for TCM is presented in Table 6-10**:**

Table 6-10 - Environmental Performance

Aspect	Approval Criteria or EIS/EA Prediction	Performance during the reporting period	Trend / Key Management Implications	Implemented / proposed management actions
Noise	Refer s6.1	Approval criteria met.	Nil	Nil
Blast	Refer s6.2	Approval criteria met.	Nil	Nil
Air Quality	Refer s6.3	Approval criteria met.	Nil	Nil
Biodiversity	Refer s6.4	Approval criteria met.	Nil	Nil
Heritage	Refer s6.5; s6.6	Approval criteria met.	Nil	Nil
Spontaneous Combustion	Refer s6.7	Approval criteria met.	Nil	Nil
Bushfire Management	Refer s6.8	Approval criteria met.	Nil	Nil
Waste Management	Refer s6.10	Approval criteria met	Nil	Nil
Water management	Refer s7	Approval criteria met	Nil	Nil

7 WATER MANAGEMENT

The mine lies within the catchment of the Namoi River. Locally and within proximity of the project site, Goonbri Creek, Bollol Creek and Nagero Creek all provide flows to the Namoi River during runoff events. The design of sediment basins within the disturbed area of the mine aims to limit the opportunity of discharge of runoff from mine-disturbed area, i.e. after appropriate detention time to satisfy licensed discharge criteria.

Detailed Surface Water and Groundwater monitoring results are provided in Appendix 3 and Appendix 4 respectively.

7.1 Surface Water Performance and Management

Sediment basins, storage dams and associated banks and drains have been designed by an engineering consultant in accordance with the Managing Urban Stormwater: Soils and Construction Vol 2E Mines and Quarries (DECC, 2008) in conjunction with the references to Volume 1 (Landcom, 2004). Water within the Project Approval area is nominally classified either as “clean”, “dirty”, “contaminated” or “pit water” depending on the source of the flow and it’s potential for physical or chemical contamination. The definition of these classifications follows:

- “Clean Water” comprises water that has not come in contact with mine disturbance and does not have potential to contain hydrocarbons.
- “Dirty Water” comprises water that has come into contact with mine disturbance and does not have potential to contain hydrocarbons.
- “Pit Water” comprises water contained within the open cut sump or pumped to the void water dam for containment and use for dust suppression across the site.
- “Contaminated Water” comprises runoff water, which could potentially contain hydrocarbons.

There are five wet weather discharge points nominated in the current EPL12365 (relevant to MP 11_0047 Schedule 3 Conditions 33 and 39). These are SD9 (LDP2), SD28 (LDP3), SD17 (LDP1), SB23B (LDP26) and SB24B (LDP27).

7.1.1 Surface Water Monitoring

TCM has a requirement to undertake surface water monitoring on a quarterly basis in addition to the monitoring of any wet weather discharge event. Historical data is available in Appendix 3. Surface water monitoring locations are shown in Appendix 3.

Whilst there are no criteria or concentration limits specified for the quarterly surface water samples, the results do provide an indication as to the quality of water on-site. The assessment of sediment load, salinity, pH, oil and grease and other monitoring parameters during these quarterly water monitoring events was consistent with previous reporting years and summarised in Appendix 3.

In summary, levels of oil and grease were low overall, with levels below the discharge limits. Level of Total Suspended Solids (TSS) fluctuated between 10 and 1,040 mg/L with approximately 50% of the measurements below the 50mg/L.

Overall pH values showed that water samples were alkaline. Concentration levels of antimony, arsenic, molybdenum and selenium were monitored throughout the period. Results remained consistently low and below thresholds outlined in the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZECC, 2000).

Surface water monitoring results showed generally similar trends with previous reporting periods.

Commitments with regard to the surface water-monitoring program are detailed in the Water Management Plan which was approved in September 2023.

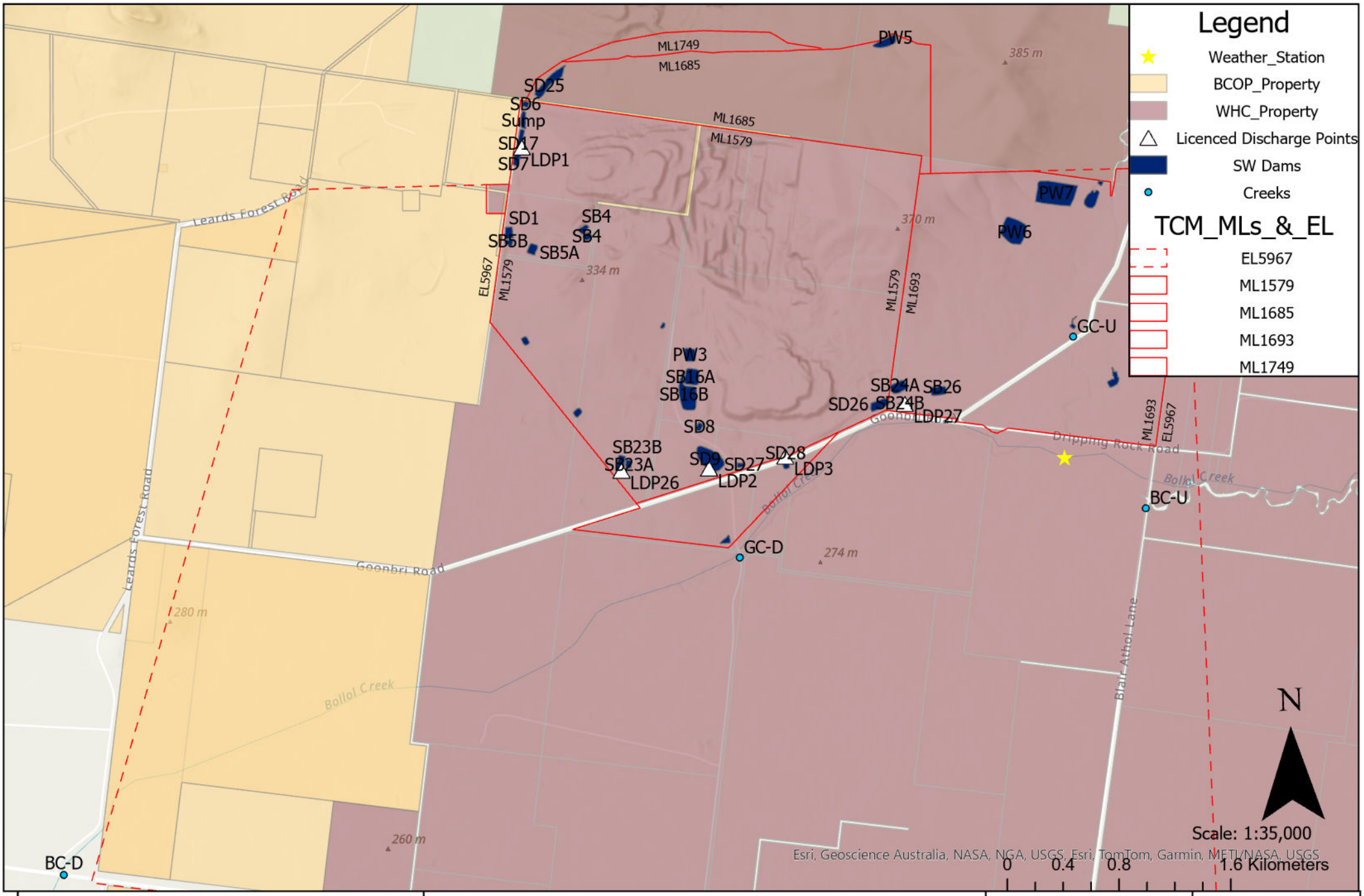
7.1.2 Water Discharges

Throughout the 2025 reporting period, there was 7 wet weather discharges release from 4 separate LDP's.

In accordance with relevant EPL12365 conditions, water samples were collected after discharge and results can be found in Appendix 3.

Table 7-1 - Discharge Results 2024

LDP #	No. of discharges	pH		EC (uS/cm)		TSS (mg/L)		Oil and Grease (mg/L)	
		Mean	Max/only	Mean	Max/only	Mean	Max/only	Mean	Max/only
LDP1	1	-	7.3	-	385	-	73	-	<5
LDP2	0	-	-	-	-	-	-	-	-
LDP3	1	-	6.6	-	147	-	124	-	<5
LDP26	2	6.8	-	129	-	126	-	<5	-
LDP27	3	7.2	-	195	-	884	-	<5	-



Whitehaven

Tarrawonga Coal Mine
Surface Water Monitoring Locations

Created by: TCM Environment
Date: Mar 2025

Spatial Reference
Name: GDA2020
MGA Zone 56

7.2 Groundwater Management

7.2.1 Environmental Performance and Management

The mine's performance with respect to groundwater performance and management, the prevention of pollution, and the assessment of impacts on groundwater availability to other surrounding users, has been assessed through groundwater level and chemistry monitoring undertaken at a series of piezometers and bores within the Project Area and adjacent properties.

7.2.2 Groundwater Monitoring

Groundwater monitoring was undertaken by a contracted company, accountable for water level measurement, collection of samples and laboratory analysis. Two data loggers monitored water levels at MW1 and MW2 to the South and one Vibrating Wire Piezometers (VWP) sites (TA65) was operating to the East of the mine.

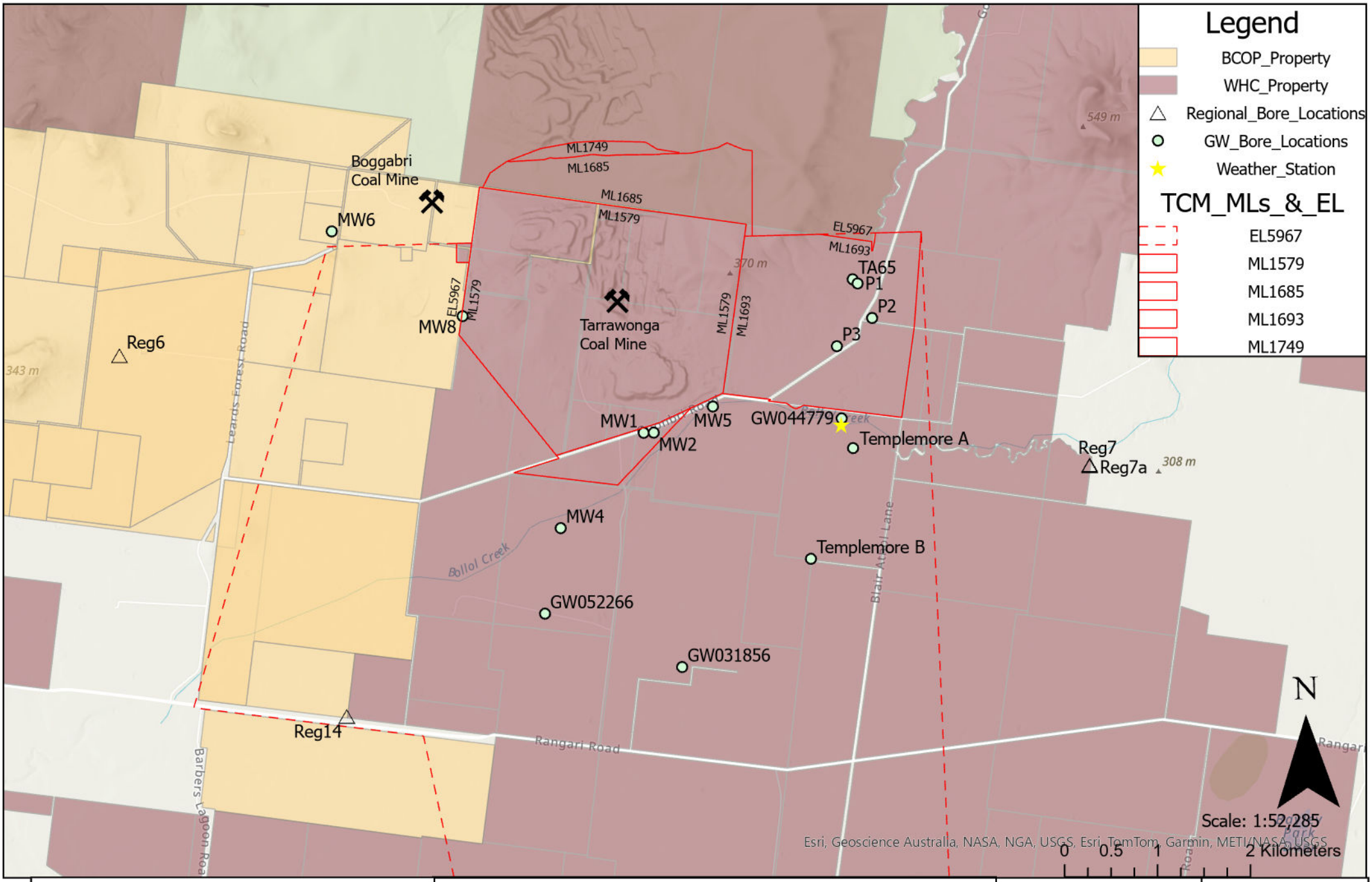
The groundwater monitoring sites are shown in Figure 10. Historical groundwater quality data and standing water level plots are available in Appendix 4.

During 2023, three new alluvium bores were installed on the eastern side of the mining lease. These had groundwater loggers installed. These bores were installed and tested and will continue to be monitored within TCM's monitoring program.

Groundwater levels

Graphs available in Appendix 4 show that groundwater levels at the majority of nominated monitoring bores maintained a steady trend throughout the reporting period. Most of the bore levels show a significant increase at the beginning of 2020, likely related to rainfall recorded over that year. Sampling and water levels have not been monitored at MW6 since the beginning of 2019, due to a broken casing as well as this bore being located on Boggabri Coal Mine property. Samples could not be collected at MW8 due to a damaged casing however, water level could regularly be checked at that site.

Depressurisation continues to be observed in the 97m, 136m and 153m intakes from approximately March 2017. During 2025 depressurisation remained relatively stable in the 30m, 35m, 47m and 56m, ranging from 0.29m in the 30m intake to -0.04m in the 56m intake. During 2024, a significant depressurisation of some 26.72m was recorded in the 110m intake, however in 2025 it appears that some recharge has occurred and the water may once again be above the intake with an annual change of 5.67m. The deeper sensors are modelled in the BTM Groundwater Model to be below the deepest seams that are being mined. As TCM has now mined the deepest Nagero seam, this is to be expected.



Whitehaven

Tarrawonga Coal Mine
Groundwater Monitoring Locations

Created by: TCM Environment
Date: Mar 2025

Spatial Reference
Name: GDA2020
MGA Zone 56

Groundwater quality

Analysis of samples taken during the reporting period showed that groundwater quality remained generally in line with historical data at all locations monitored. Water quality was compared to the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* (ANZECC, 2000) guidelines for stock watering (cattle). There were no recorded instances of groundwater quality exceeding the limits prescribed by those guidelines during the reporting period.

Water quality has also been compared to the National Environment Protection Council (NEPC) Agricultural and Livestock Guidelines. The following instances occurred where water quality did not meet the parameters identified in the guidelines:

- Since there are no Iron limits for livestock in the ANZECC, the agricultural irrigation guidelines for iron (0.2mg/L) was used for comparison. Majority of the monitoring sites were above the 0.2mg/l limit on at least one occasion during the reporting period. Throughout historical data (back to 2009), iron has been seen to fluctuate with high peaks (up to 47mg/L) at most bores on more than one occasion.
- All bores except for GW052266 were above the NEPC agricultural irrigation guideline for TDS (600mg/L) when sampled throughout 2025. No site measured above the NEPC livestock guideline limit (~ 3,500mg/L). No sites measured above the ANZECC guideline for stock drinking water (4,000mg/L) value.

7.2.3 Groundwater Management

Pit water inflow is a result of combination of rainfall and groundwater seepage:

- Direct rainfall runoff and infiltration through the emplaced overburden which flows down-dip to the open cut sump(s); and
- Inflows from the exposed coal seam.

To prevent any potential risk of contamination with chemical and hydrocarbon, TCM implemented control measures such as:

- Vehicle maintenance carried out in designated areas.
- Any spills being cleaned up; and
- Hydrocarbon products being stored within a bunded area, constructed in accordance with AS 1940-2004 and/or EPA requirements.

Monitoring occurs in surrounding groundwater bores on a regular basis to detect and assess any changes in quality or level that may be mine attributed.

The Tarrawonga Coal Project EA identified that there would be a reduction in the potentiometric head in the aquifers of the porous rock systems to the east and the north. In the past, the Vibrating Wire Piezometers installed in TA60 and TA65 have demonstrated depressurisation as predicted as the mine moves toward the east. Due to pit progression, site TA60 was decommissioned in 2019.

Regional Bores (Reg. 6, 7a and 14) maintained a steady trend during the period for all parameters including Electrical conductivity (EC). EC was compared to the performance indicators outlined in TCM's Groundwater Response Plan within the WMP, and none of these bores were above performance indicators (the 95th percentile of historical data) at the time of this report. Water levels at each of the regional bores maintained steady levels, and therefore none were below performance indicators (5th percentile of historical data) during the reporting period.

The BTM Complex had a revised BTM Ground Water model and submitted and approved by DPE during the 2025 reporting period as part of the Maules Creek Coal Continuation project. This model was prepared in consultation with groundwater experts and regulatory agencies. The revised ground water model provides a revised prediction for the passive take of the approved Tarrawonga mining operations over time. Tarrawonga Mine will continue to acquire additional water access licenses as required over time and relative to the predicted passive groundwater take volume for any given year.

During the reporting period, no complaints have been received in relation to impacts upon any other groundwater users. This is consistent with the predictions of the EA; that no significant impact would therefore affect beneficial use of groundwater of other groundwater users.

7.2.4 Water Take

During the water year 2025, no water was extracted from the licenced groundwater bores. Instead, TCM used rainfall and runoff captured in the sediment dams and pit to provide operational water requirements. Any water in the pit occurred through passive take and is in accordance with Water licences as listed in Table 7-2 that give units of entitlement per water annum.

In accordance with respective sites approvals and principles of the BTM Water Management Strategy, water sharing opportunities were discussed.

Table 7-2 - Water Take

Passive Take Licenses						
Water Licence #	**Water Sharing Plan**	**Water Source and Management Zone**	**Share Units (ML)**	**Available Water (ML)**	**Passive Take [1] (ML)**	**Usage** (ML)
WAL2716	Namoi Alluvial Groundwater Sources 2020	Upper Namoi Zone 4 Namoi Valley (Keepit Dam to Gin's Leap) Groundwater Source	43	86	91	64
WAL6548			18 [2]	36 [2]		27
WAL12479		Upper Namoi Zone 11 Maules Creek Groundwater Source	39 [2]	78 [2]	4	4
WAL29548	NSW Murray Darling Basin Porous Rock Groundwater Sources 2020	Gunnedah - Oxley Basin Mdb Groundwater Source	50	62.5	483	58
WAL31084			250	312.5		288
WAL29461			120	150		138

1 – The Boggabri-Tarrawonga-Maules Creek (BTM) Complex groundwater assessment of passive take volumes was updated in 2025. Additional water licences are in the process of being obtained by WHC, as required, to ensure compliance with future versions of the Water Management Plan which will be updated to include these updated passives take volumes.
2 – Tarrawonga Share. Available water shared 50:50 with Maules Creek Coal Mine. This licensing is also in the process of being reviewed as part of the wider licensing review associated with the updated BTM Complex Groundwater Model.

7.3 Site Water Balance

According to the site water balance developed by a water consultant, the water management system for 2025 had the capacity to be operated and meet operational objectives in normal average weather conditions;

- Wet weather releases and controlled water releases occurred on two occasions throughout August of 2025. This allowed excess water release from site, and this is discussed in Section 7.1;
- Rainfall and runoff captured in the sediment and pit water dams provided for the majority of water demand in the dry, median and wet years;

These predictions were consistent with the actual outcomes observed during this monitoring period. Table 7-3 provides an overview of water stored and used on site during the reporting period.

Table 7-3 - Water Stored and used during the reporting period

						Table 2-3 EA values (2012) (ML)		
	Jan 2025 – Dec 2025 (ML)	**Jan 2024 – Dec 2024 (ML)**	**Jan 2023 – Dec 2023 (ML)**	**Jan 2022 – Dec 2022 (ML)**	**Jan 2021 – Dec 2021 (ML)**	**Dry Year- 25%-ile (17 years)**	**Average Year (17 years)**	**Wet Year - 75%ile (17 years)**
Total Runoff	1214	535	488	1,983	2,273	325	402	480
Groundwater inflow	74	67	61	62	58	255	255	255
External Source	0	0	0	0	0	n/a	n/a	n/a
TOTAL INPUT	**1,288**	**602**	**549**	**2,045**	**2,544**	**580**	**657**	**735**
Evaporation (from storages)	216	174	208	284	241	118	130	141
Evaporator fans	-	-	55	-	-	-	-	-
Crusher Dust suppression	29	36	57	35	35	8	8	8

Haul Road and ROM pad dust suppression	407	496	658	374	378	389	394	399
Offsite release/ discharge	146	12	32	423	146	0	0	0
Water contained in spoil/ Other	237	n/a	n/a	2 (Vehicle Washdown)	900 (Water Contained in Spoil)	n/a	n/a	n/a
TOTAL OUTPUT	**826**	**718**	**1010**	**1,118**	**1,914**	**515**	**532**	**548**
Change in inventory	*463*	*-116*	*-460*	*927*	*630*	*64*	*125*	*193*

Note: For Jan-Dec (annual) period, values must be compared with caution as the EA value is based on 17-year annual average with changing catchment and land uses over time.

8 REHABILITATION

8.1 Post Rehabilitation Land Uses

According to the Mine Site Rehabilitation Management Plan and the rehabilitation Management Plan, woodland areas will be established on slopes and upper terraces of the Northern and Southern Emplacement Areas.

Rehabilitation on the Southern Emplacement is still immature while it is further advanced on the Northern Emplacement (including in ML1685 adjacent to Boggabri Coal Mine) with some older sections close to achieving open woodland land use target. However, no rehabilitation to Box Gum Endangered Ecological Community (EEC) woodland was undertaken nor has rehabilitation to agricultural land occurred during the reporting period.

8.2 Rehabilitation Performance during the Reporting Period

8.2.1 Status of Mining and Rehabilitation

Integration with Boggabri Coal's waste emplacement has started with rehabilitation activities to follow as per the FWP and RMP. The EA Total disturbance Area generally aligns with the most recent total disturbance Areas.

At the close of 2025, Tarrawonga achieved 22.7ha of ecosystem establishment, and 30.4ha of landform prepared for rehabilitation during the upcoming 2026 calander year.

The status of mining and rehabilitation at the completion of the reporting period is summarised in Table 8-1 and **Error! Reference source not found.**.

Table 8-1- Rehabilitation Status

Mine Area Type 1 [Ha]		2018	2019	2020	2021	2022	2023	2024	2025
0	***Total Mine Footprint***	627.6	687.5	741.8	*772.2*	*786.3*	*828.4*	*852.73*	*849.23*
1	***Total Active Disturbance***	540.7	579.4	607.8	*625.6*	*607.6*	*638.6*	*790.64*	*566.92*
2	***Land Being Prepared for Rehabilitation***	12.9	29.6	27.6	*11.7*	*26.2*	*26.1*	*30.1*	*34.46*
3	***Land Under Active Rehabilitation***	74.1	78.5	106.4	*146.7*	*152.4*	*194.4*	*226.4*	*247.86*
4	***Completed Rehabilitation***	0.0	0.0	0.0	*0.0*	*0*	*0*	*0*	*0*

[1] Refer Annual Review Guideline (p.11) for description of mine area types.
[+] Forecast for 2022 based on MOPG. All numbers in years beyond 2022 are as per the Annual Rehabilitation Report and Forward Plans.

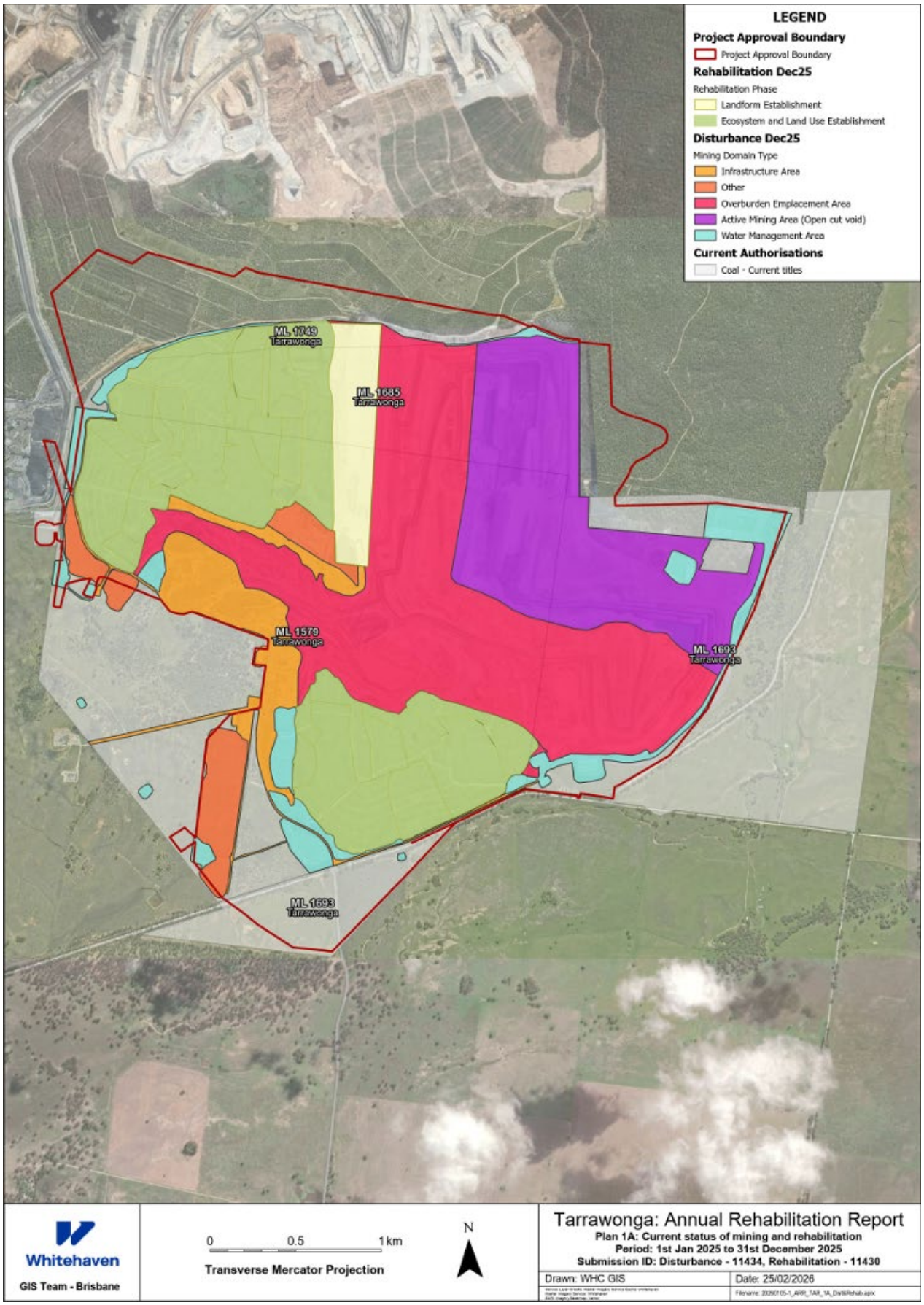


Figure 11 - Tarrawonga Rehabilitation status as of December 2025

8.2.2 Rehabilitation Fauna and Flora Monitoring

Investigations undertaken by Geoff Cunningham Natural Resource Consultants Pty Ltd as part of the original Mine EIS identified no significant impact on threatened flora species, endangered ecological communities, endangered flora populations or critical habitat as a consequence of the development. Establishment of monitoring plots commenced in April 2007 and has continued as required. Over the life of the mine, quadrats are to be established across rehabilitation sites and control sites. Potential impacts noted in the EA included the clearing of Box-Gum Woodland EEC/CEEC and the groundwater dependent ecosystem - Bracteates Honey myrtle low riparian forest. However, these areas had not yet been disturbed or cleared for mining purposes.

The annual flora and fauna monitoring program has been developed progressively over the life of the project and is now a finalised methodology for WHC Gunnedah Open Cut sites. This is now known as the Annual Rehabilitation Monitoring Method (ARMM: Aspect Ecology, 2024). Qualified ecologists completed the 2025 annual monitoring program in accordance with the above mentioned ARMM, which was compiled in accordance with the Rehabilitation Management Plan, the Mine Site Rehabilitation Management Plan, the Biodiversity Management Plan and the recommendations from previous reports.

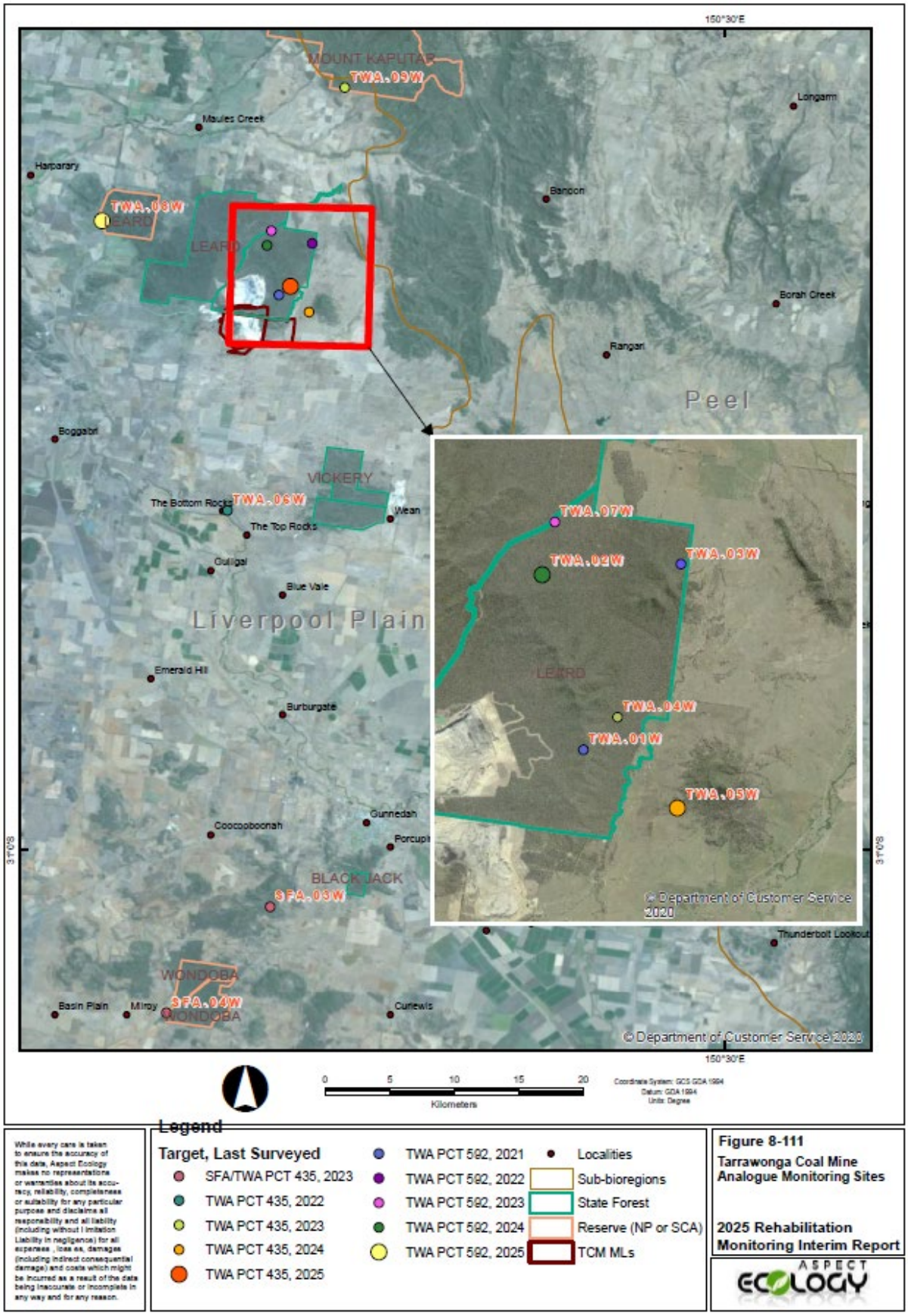


Figure 12 - Analogue site locations – Rehabilitation monitoring 2025

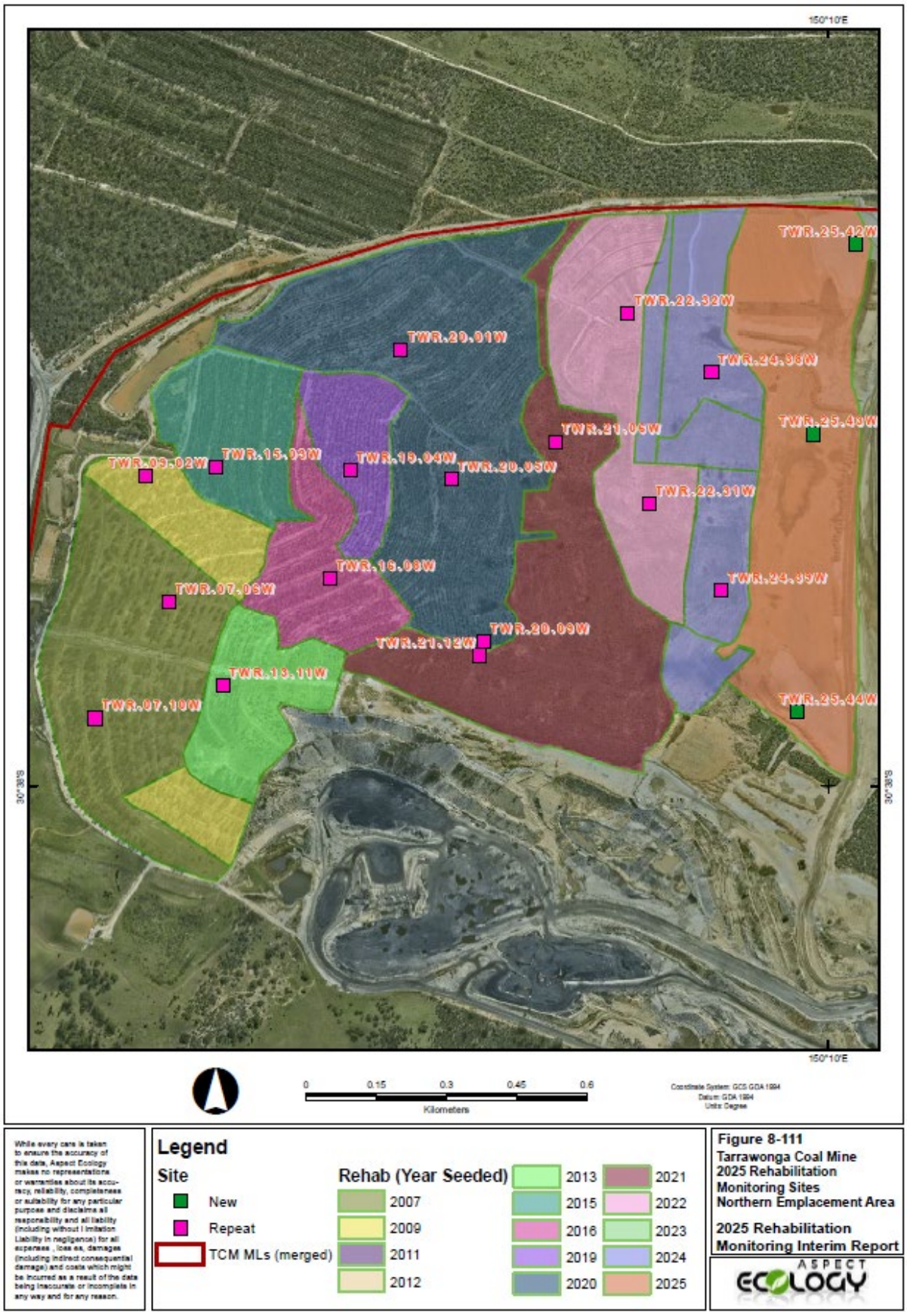


Figure 13 - Monitoring locations Northern Rehabilitation – Rehabilitation Monitoring 2025

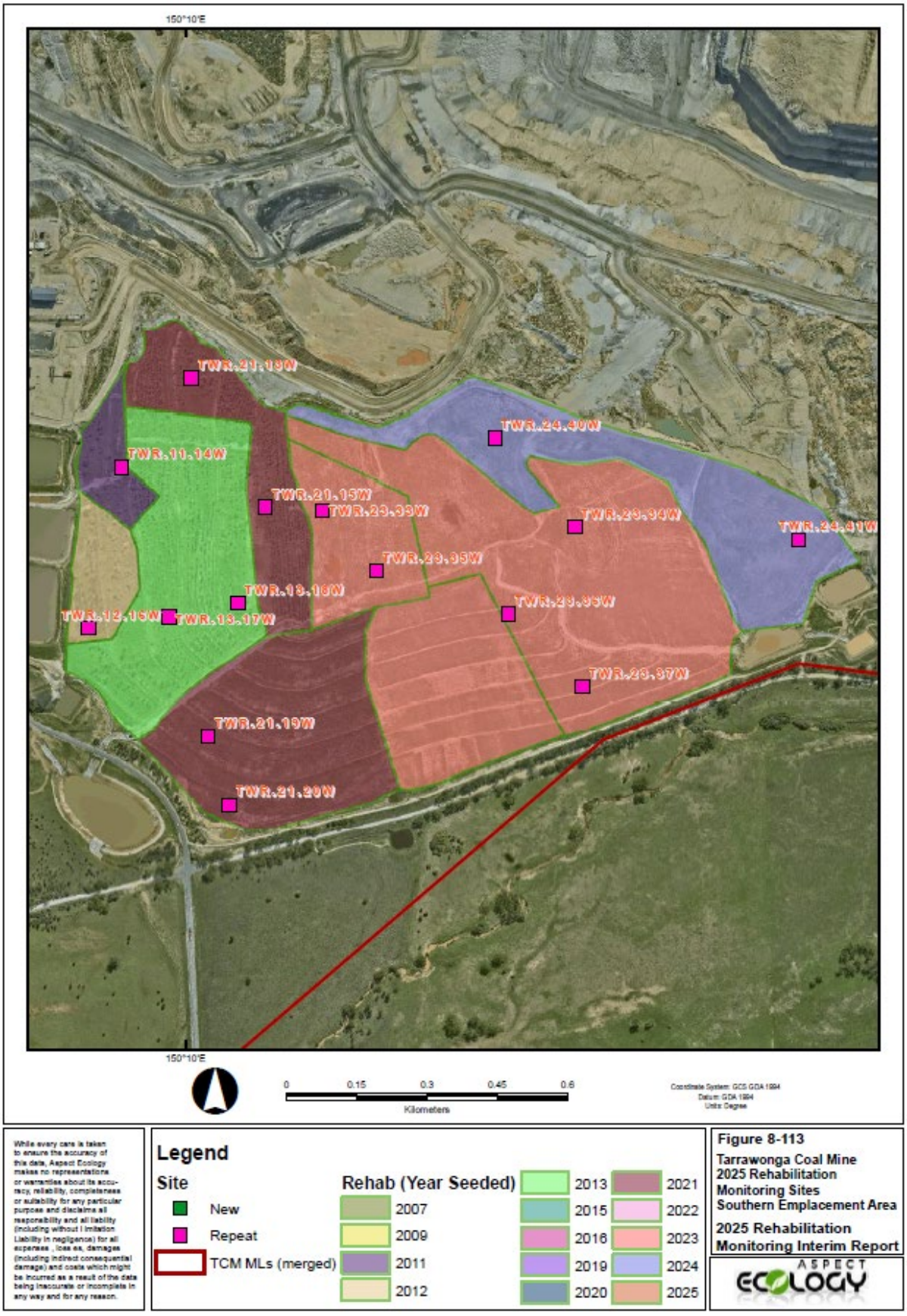


Figure 14 - Monitoring Locations Southern Rehabilitation - Rehabilitation Monitoring 2025

8.2.2.1 Flora Monitoring

A detailed ecological field assessment of rehabilitated areas and analogue sites was undertaken during September - October 2025. Monitoring was undertaken using the ARMM. Monitoring comprised:

- thirty repeat monitoring woodland rehabilitation sites;
- three newly established woodland rehabilitation sites;
- two repeat monitoring analogue woodland sites; and,
- twenty-nine categorical point assessments at notable locations within the Woodland rehabilitation.

Groundcover

Surface Cover

Surface cover, which includes vegetation, mulch, and litter, improved by 10.3% in 2025. The 2011 rehabilitation area has maintained strong surface cover for five years, consistently meeting targets. The 2021 rehabilitation has maintained its benchmark for a second year. The 2013 during 2025 has returned to meeting benchmark from its declined slightly in 2024. The 2022 area demonstrated significant progress. Conversely, the 2015 area fell below the benchmark in 2025 after achieving it in 2024, and the 2016 area showed a decline. The remaining areas, including those established in 2007, 2009, 2012, 2020 and 2024, have yet to achieve the benchmark despite some showing gradual improvement over time.

Native Vegetation Groundcover

Overall, native groundcover decreased slightly in 2025 by 0.01%. The 2020 sites is very close to meeting targets. Further, 2012 substantially increased in 2025 from its 2024 levels. 2022, 2023 and 2024 areas continue to trend upwards but are below benchmark. The remaining areas saw minimal change or decline compared to 2024 values.

Native Grass Cover

The 2020 rehabilitation area was close to meeting its grass cover target. The four sites where above 10% with the remaining eight having less than 10% grass cover, which is significantly below target.

Mid-Storey

2016 was the only site to meet the target for mid-storey vegetation (shrubs and small trees) with 2012 coming in very close to meeting the target. However, sites from 2015, 2019, 2020 and 2021 showed gradual improvement with these areas potentially meet targets in the coming years if the trend continues. All-other areas remain below the benchmark.

Overstorey

The 2007 and 2009 sites met their required tree cover levels, while the 2013 site was slightly below target. The 2011 and 2012 Areas had no overstorey cover, indicating that tree growth has been poor in these areas.

Richness

Native Species Richness

Most rehabilitation areas had an increase in native species diversity in 2025. The 2011 and 2013 areas remained below target, but 2021 areas had a substantial increase. Further, 2024 saw a significant improvement from 2024 monitoring. The 2016, 2019 and 2020 areas had higher-than-expected species diversity, suggesting good progress in those locations. 2007 saw a slight decrease below benchmark after meeting it in 2024.

Native Shrub Species Richness

Eight out of thirteen rehabilitation areas met their targets for shrub diversity in 2025. 2024 area very close to reaching target benchmark.

Native Tree Species Richness

Only three out of twelve areas met their targets for tree species variety in 2025. Four areas exhibit excess tree species richness compared to the natural benchmark.

Density

Native Shrub Density

Seven of the 8 applicable areas have met completion criteria in 2025. However, older areas now outside of the Ecosystem Development Phase did exhibit lower-than-expected shrub density.

Native Tree Density

Three of six applicable areas met target in 2025 with 2019 nearing the target. On average there was a slight decrease in density with variable trends with some areas declining where others were stabilising or increasing.

Species Composition

Some important native species that should be present were still missing from rehabilitation areas. Key species like *Callitris glaucophylla* (White Cypress Pine) were mostly absent.

Weed Presence

Weed levels increased in all rehabilitation areas in 2025 with no sites meeting the target for weed presence. The 2009, 2015 and 2016 sites had the least weed presence, while the 2011 and 2012 site had the highest level of weed invasion.

It was recommended that:

- A focus of stronger weed control efforts, especially in the 2011 and 2012 areas were weed presence is greatest.
- Increasing native ground cover could help improve overall rehabilitation success seeding after weed control efforts undertaken.

Additional planting of key missing species like Callitris glaucophylla should be considered notably after weed control efforts undertaken.

Soil pits

Soil profile and condition assessments were recommended every three years. Two soil pits were established in 2011, one in the rehabilitation zone, and one in each control zone. Soil pits are described

using standard field measures with particular notice of horizon boundaries and ecological functionality (e.g. root establishment, evidence of soil fauna). Soil pits are analysed every three years. As soil pits were analysed in 2018, this parameter was due in the 2021 reporting period. Due to outward impacts such as flooding and overall site access issues due to saturated ground, soil pits were unable to be dug in 2022 but done during 2023.

In the summer 2023 survey, the soil pit in the rehabilitation zone (Rehabilitation Zone 2) showed a profile reconstruction with topsoil depth at 15 cm and depth to overburden at 30 cm. The control zone showed a similar profile reconstruction with topsoil depth at 10 cm and depth to compact clays at 30 cm. The rehabilitation zone exhibited good establishment of grass. The control zone also showed good establishment of grass and other plant roots including larger tree roots, which were present in all horizons. Soil fauna was not identified in any pits.

An extensive soil testing program was conducted in 2020 to obtain representative soil samples within each rehabilitation area. This program is discussed further in section 8.2.3.2. Another such program is planned for 2025 and will explore locations within the rehabilitation which is displaying low growth records for the PCT type, and areas with erosion that requires maintenance. This program will support and feed a potential maintenance infill planting or seeding program within the rehabilitation.

Revegetation Management

Topsoil throughout all rehabilitated areas was mixed with mulch from previous tree clearing campaigns, spread in 200 to 300mm layers and ameliorated with gypsum and manure. The topsoil was then seeded with cover crop (oats) and native seed mix consisting of (but not limited to) the following species: *Eucalyptus albens, Eucalyptus Mellidora, Eucalyptus crebra Acacia buxifolia, Acacia paradoxa, Geijera parviflora, Indigofera adesmiifolia, Indigofera australis, Clematis spp., Desmodium spp., Dianella revoluta, Vittadinia spp., Austrodanthonia spp, Austrostipa aristiglumis, and Digitaria spp.* A large-scale tree planting program occurred throughout 2025. This consisted of planting more than 16,000 trees.

8.2.2.2 Fauna Monitoring

Fauna habitat broadly consisted of stag trees, rocks of mixed size, course woody debris, emerging tree canopies, and pondage areas, yet some sites had minimal habitat features. Native fauna observations included a variety of birds, including wrens and ravens, and skinks. Macropod scats were present at several sites. Feral pigs and goats were also observed.

Woodland birds monitoring was undertaken during Winter 2025 and Spring 2025. Birds were recorded whilst walking in a meandering path in the area surrounding each monitoring point, with all birds recorded either through direct observation or calls. Monitoring sites were surveyed for 20 minutes by one observer, once in the morning and again in the afternoon to cover peak activity hours for bird species.

Winter Bird Survey

A total of 33 bird species were recorded during the 2025 winter monitoring surveys, including one threatened species, the Speckled Warbler, observed at a rehabilitation sites R02 and R03. Species richness increased across all sites since 2023, with rehabilitation site R01 recording the highest richness (16 species). Notably, rehabilitation sites recorded higher species richness than control sites for the third consecutive year, indicating progress toward resembling established woodland habitats. The proportion of woodland species increased to 97% in 2025 compared to the 89% in 2024, 77% in 2023 and 67% in 2022. However, the presence of Noisy Miners at site R01 may impact bird diversity and requires monitoring.

Spring Bird Survey

A total of 36 bird species were recorded during the 2025 spring monitoring surveys, including two threatened species: Speckled Warbler and Grey-crowned Babbler. The average species richness for the five survey sites in 2024 was 13 species, consistent with recent years but lower than in 2021/2022. Control site C06 recorded the highest richness (18 species), while C05 had the lowest (11 species). All three rehabilitation sites either were consistent or saw an increased species richness from 2024. suggesting habitat stability and improvement. However, the presence of Noisy Miners at sites R01 and R02 may impact diversity and requires monitoring.

AUSRIVAS Micro and Macro invertebrate monitoring

During the 2025 reporting period, TCM conducted its second AUSRIVAS monitoring program. This assessed water quality, macroinvertebrate community, and riparian vegetation condition across multiple sites in autumn and spring. Only 2 control sites were unable to be sampled which was an improvement from 2024. Water quality results indicated that turbidity exceeded ANZECC guidelines at one upstream site and two downstream sites, and dissolved oxygen levels varied with many below ANZECC guidelines, likely influenced by natural drying patterns and historical land use rather than direct mining impacts. Macroinvertebrate diversity continued to be low with control locations having lower diversity still containing communities dominated by tolerant species, which is expected in ephemeral waterways. Riparian vegetation was moderate health, with only one downstream location being at poor health. However vegetation health was lower than in 2024 which is likely due to recent flooding and drying within 2025 in combination with existing impacts from historical agricultural practices. It was determined that there was no indication of TCM directly impacting control locations and stable flows in creeks. Through the continued assessment, it is still recommended that even with more sites containing water during 2025 that the ephemeral nature will continue to provide challenges for monitoring and will impact scores as stable conditions are required to see increased improvements in stream and riparian health.

8.2.3 Habitat Management

During the Ecosystem Establishment phase, cover crop was sown during the seeding process to establish vegetation cover, weed suppression and erosion control while native species germinate.

8.2.3.1 Weeds Management

Management of targeted weed species within the mine leases was undertaken at opportune times following suitable weather and with consideration to the NIWAC Weed Management Guide for North West NSW (NSW DPI).

During 2025, a weed monitoring program was conducted at TCM by site personnel. These inspections noted an increase in Broadleaf weeds on the Southern OEA due to continuation of favourable conditions from previous years. This resulted in targeted spraying program in September of Charlie Weed, Paterson's curse, cotton bush, mustard weed and saffron thistle.

Topsoil and Subsoil stockpiles are periodically sprayed for weeds, with prickly pear being a priority target. Additionally, where applicable, topsoil stockpiles are slashed to manage and suppress weeds with this conducted in the western topsoil stockpiles during August.

Slashing works were also undertaken in the Winter period, to reduce the weed load and increase native grasses on the outside of the active pit and rehabilitation. This also aids in bushfire management practices. Regular slashing and weed spraying of general weeds occurred on the entrance road to the mine and around administration, maintenance and ROM areas.

8.2.3.2 Feral Animal Management

TCM coordinated the implementation of the Vertebrate Pest Management Plan using infra-red motion cameras installed at strategic locations around the Mining Leases. Findings indicate overall vertebrate pest sighting onsite has significantly dropped since 2018.

The survey for 2025 (Table 8-2) showed there were no sightings of goats, cats, dogs or hares/rabbits.

Feral pig sightings continued to decrease from 159 in 2018 to 13 total sightings for this reporting period. In response to any increase in sightings of feral pigs by site personnel, a baiting program was conducted within the Mining Lease in 2025 using Hoggone bait by a licenced contractor. This resulted in more than 10 pigs being removed. TCM will continue to monitor and manage feral animals according to the BMP and MSRMP.

Table 8-2 - Summary of Vertebrae Pest Sighting (2018 - 2025)

	Feral Pig (Descendant of various breeds of Sus scrofa)	Fox (*Vulpes vulpes*)	Feral Cat *Felis catus*)	Rabbit/Hare (*Oryctolagus cuniculus*) / (*Lepus capensis*))	Wild Dog (*Canis familiaris*)	Other
Quarter 1	13	1	0	0	0	0
Quarter 2	0	0	0	0	0	0
Quarter 3	0	0	0	0	0	0
Quarter 4	0	0	0	0	0	0
Total 2025	**13**	**1**	**0**	**0**	**0**	**0**
Total 2024	**9**	**0**	**0**	**0**	**0**	**0**
Total 2023	8	0	0	1	0	1
Total 2022	34	2	0	1	0	2
Total 2021	**6**	**1**	**0**	**1**	**0**	**0**
Total 2020	***17***	***4***	***0***	***22***	***0***	***0***
Total 2019	***54***	***73***	***2***	***140***	***0***	***2***
Total 2018	**159**	**168**	**1**	**163**	**0**	**2**

8.2.3.3 Soil & Erosion Management

During 2025, efforts were made to improve soil management and minimise erosion on site via active erosion repair works being undertaken on the southern rehab areas during the low rainfall winter period. This repair works was observed to be revegetated prior to the summer storm period and has to date not suffered any further erosion within these locations.

Soil Management

A soil specialist conducted an extensive soil testing program in 2020. The objective was to provide a soil inventory of rehabilitated areas through field soil assessment and laboratory testing aimed at improving the growth medium for future revegetation.

The field program was designed to obtain representative samples within each rehabilitation area. Sampling points were irregularly located according to the survey team judgement to enable the delineation of potential soil boundaries based on year of rehabilitation or change in soil type used as growth medium. Soil test sites were excavated by hand to 0.3-0.5m. The number of survey points totalled 35 sites in the Northern Rehabilitation Area and 20 sites in the Southern Rehabilitation Area. This survey density fulfilled the requirement of a 1:10,000 soil survey. Sampling consisted of one bulked topsoil sample at each site with typical sample depth 0-10cm, with occasional 'subsoil' samples taken at 30-40cm for assessment of erosion tunnelling risks.

The laboratory testing suite for these sites included pH and EC (1:5 water); pH (1:5 CaCl); Available (Ammonium, Nitrate, Sulfur); Exchangeable Sodium, Potassium, Calcium, Magnesium, Hydrogen, Aluminium, Cation Exchange Capacity; Colwell Phosphorus; Available Micronutrients Zinc, Manganese, Iron, Copper, Boron, Silicon; Total Carbon (TC), Total Nitrogen (TN), TC/TN Ratio, Organic Matter; Basic Colour, Basic Texture.

The findings indicate that the soil resources used on the rehabilitated areas at TCM, depth and characteristic of the topsoil layer provide an adequate growth medium to establish the desired vegetation species. Following recommendations of the soil specialist, gypsum was used to improve characteristics of topsoil spread on the Southern Emplacement area prior to the start of revegetation activities.

Topsoil was stripped from areas cleared of vegetation in accordance with the stripping ratio recommended by a soil consultant. In one area of rehabilitation, topsoil was direct placed. All other areas, topsoil was spread from pre-existing stockpiles that were showing significant signs of regeneration.

Erosion and Sediment control

Erosion was recorded at multiple sites through the rehabilitation monitoring program:

- The 2021 rehabilitation areas had gully and tunnel erosion.
- The 2013 and 2024 areas had moderate rill erosion (small channels forming due to water runoff).
- The 2019 rehabilitation areas had gully erosion

Known locations of erosion observed in 2023 areas were remediated within the reporting period. A rehabilitation erosion maintenance program is scheduled to occur in 2026 and will ensure the most prominent erosion areas are remediated.

Water infrastructure including diversion drains were designed and sized in accordance with the *Managing-urban-stormwater-soils and construction guide* (volume-2E-fourth edition). TCM continued the construction of drains at the top and north-east of the Southern Rehabilitation area.

In accordance with RMP requirement and TARPs, TCM will continue to implement erosion control measures and remediate affected areas to meet the completion criteria for mine landform stability.

8.2.4 Renovation or Removal of Buildings

No buildings have been moved or erected in the reporting period.

8.2.5 Other Rehabilitation Undertaken

No additional rehabilitation of exploration areas, infrastructure, shafts, dams, fence lines or bunds occurred during the reporting period.

8.2.6 Departmental Sign-off of Rehabilitated Areas

Departmental sign-off has not been requested for any rehabilitated areas during the reporting period.

8.2.7 Variations in Activities against Forward Program

No variations were made to the Forward Program during the reporting period. TCM achieved the targeted amounts for both Landform Prepared for Rehabilitation and Ecosystem Establishment. A new Forward Program will commence on the 1st of January 2026.

8.2.8 Trials, Research Projects and Initiatives

In 2021 TCM engaged Aspect Ecology to undertake a Ground Flora Rehabilitation Study. The overall study aims were to:

1. Identify and evaluate management methods to reduce exotic ground flora, and
2. Identify and evaluate methods to enhance groundcover diversity and cover/abundance

3. Apply findings from aims 1 and 2 to produce management recommendations for Whitehaven Coal.

In 2022, project activities focussed on:

- database searches;
- review of abstracts against article inclusion criteria; and
- research article compilation and evaluation.

The interim report evaluated the existing literature and concluded that control of exotic species is crucial in the first few years following seeding. This Ground Flora Rehabilitation Study continued during 2025. TCM will continue to implement weed spraying controls in rehabilitated areas as vegetation establishes.

The nearby Whitehaven Coal mine, Maules Creek coal mine has a requirement to undertake a $1M research program into rehabilitation of Box Gum Grassy Woodland upon mine rehabilitation, the findings from which has been considered by TCM and will be integrated into the Rehabilitation Management Plan as appropriate.

8.2.9 Key challenges to Achieving Successful Rehabilitation

The key issues to achieving successful rehabilitation include:

- Improved landform design and site water modelling to reduce erosion and sedimentation (e.g. gullying and sedimentation resulting in land stability and vegetation growth issues);
- weed and feral animal control;
- Native vegetation establishment corresponding to identified PCT (Plant Community types);
- landform stability; and
- climate/ and extreme weather conditions

In cases where the performance is sub-optimal, additional management measures will be implemented (e.g. replanting, repairing landforms and water management features, application of mulch/fertilisers, feral animal and weed control etc.). A Trigger Action Response Plan (TARP) for rehabilitation at the TCM has been included in the RMP, which outlines appropriate actions and varied responses that will be implemented as required.

8.3 Actions for Next Reporting Period

Vegetation clearing will be undertaken during the approved window from 15th Feb to 30th April 2026. Approximately 4.9ha of vegetation is proposed to be cleared in the 2026 clearing program.

Community and complaints

In accordance with MP 11_0047, a Community Consultative Committee (CCC) meeting was held on a quarterly basis at TCM. The committee comprised representatives of Gunnedah Shire Council, Narrabri Shire Council, TCM and the community including landholders.

TCM maintained a designated community complaints line. In the event of a complaint, details pertaining to the complainant, complaint and action taken are recorded. Each complaint is investigated and documented with individual complaint records maintained. Complaints are reported and findings discussed with CCC members during meetings. These meetings give an opportunity to provide an update of the environmental and operational performance.

TCM recorded three complaints during 2025 regarding Blasting and Traffic.

1. The complaint was made to the community complaints line in March of 2025. This was in relation to a strong sulphur smell and loud noise following a blast. TCM staff contacted the community member and advised that the blast observed was within compliance approved monitoring limits and within required weather conditions for blasting at Tarrawonga.
2. The complaint was made to the community complaints line regarding a loud noise following a blast at Tarrawonga Mine site that scared birds in the area. The community complainant was contacted and advised that the blast observed was within compliance approved monitoring limits for blasting.
3. The complaint was made to the community complaints line regarding a Tarrawonga mine worker who overtook the complainant in an unsafe manner whilst using a road not authorised for general mine related traffic. The incident was investigated and all mine workers and contractors have been advised of the need to travel to and from work in a safe manner and only use approved roads whilst travelling to or from the mine site.

The number of complaints has significantly decreased in recent years.

Table 8-3 provides a comparison of complaints received since 2017 annual reporting period.

Table 8-3 - Complaints Summary

Category	2017	2018	2019	2020	2021	2022	2023	2024	2025
Air Quality	3	1	0	0	0	0	0	0	0
Traffic	0	0	0	0	0	0	0	0	1
Surface Water	0	0	0	0	0	0	0	0	0
Visual Amenity	0	0	0	0	0	0	0	0	0
Noise / Vibration	0	0	0	1	0	1	0	0	0
Blast	0	0	0	1	1	0	1	1	2
Other	0	0	0	0	0	0	0	1	0
TOTAL	**3**	**1**	**0**	**1**	**1**	**1**	**1**	2	**3**

Note: Some complaints may relate to more than one category.

8.4 Community Contributions

Community contributions continued to be managed in accordance with the Whitehaven Coal Donations and Sponsorship Policy. Whitehaven supports a range of community, not-for-profit and charitable organisations. In 2025, support for the community in NSW totalled more than $1M. Organisations included:

- 2025 Tamworth Science & Engineering Challenge
- Australian Bushman's Campdraft and Rodeo Association
- Baan Baa Tennis Club
- Barraba Central School
- Barraba Junior touch Football Association Inc
- Barraba Public School
- Bellata Common Trust
- Black n Blue Boxing Gunnedah
- Boggabri & District Rugby League Football Club Inc
- Boggabri Anglican Church
- Boggabri Business Chamber
- Drovers Campfire
- Boggabri Gunnedah Gun Club
- Boggabri Joeys Playgroup
- Boggabri Junior Rugby League Club
- Boggabri Men's Shed
- Boggabri Pony Club
- Boggabri Public School
- Boggabri Showground and Public Recreation Land Manager
- Boomerangs Sports Club
- Business NSW
- CanAssist
- Carinya Christian School
- Challenge Community Services
- Childrens Medical Research Institute
- Clontarf Academy
- Connecting with Bricks
- Cougars Baseball Club
- Country Education Foundation of the Namoi

- Cure Brain Cancer Foundation
- Curlewis Public School
- Deadly Dance Academy
- Awesome Opportunities Basketball
- Dorothea Mackellar Poetry Society
- Dymocks Children's Charities
- Eulah Creek Recreation Reserve Land Manager
- Fairfax Public School Parents & Citizens Association
- Foundation boxing
- G.S Kidd Memorial Public School
- Gomeroi Roos
- Group 4 Rugby League
- Gunnedah & District Chamber of Commerce
- Gunnedah & District Soccer Association
- Gunnedah and District Australian Football Club
- Gunnedah Athletics Centre
- Gunnedah Baptist Community Preschool
- Gunnedah Bulldogs Rugby League Football Club
- Gunnedah Cricket Club
- Gunnedah Family Support
- Gunnedah Gymnastics
- Gunnedah High School
- Gunnedah Kennel Club
- Gunnedah Meals on Wheels
- Gunnedah Ministers Fraternal
- Gunnedah Mountain Bikers
- Gunnedah MS Incorporated
- Gunnedah Show Society
- Gunnedah South Public-School P & C Association
- Gunnedah Triathlon Club
- Huskies Baseball Club Inc
- Inverell Bear Eaters Elders Group
- Kamilaroi Lightning
- Kootingal Moonbi Rugby League Football Club
- Lake Keepit Family Fishing Club
- Little Wings
- Manilla Show Society
- Maules Creek Campdraft
- Movember Foundation
- Mullaley Cricket Club
- Namoi Valley Christian School
- Narrabri & District Junior Rugby League
- Narrabri & District Pony Club
- Narrabri Arts Eisteddfod
- Narrabri Clay Target Club
- Narrabri Dirt Bike Club
- Narrabri Dolphins Water Polo Club
- Narrabri High School
- Narrabri Hospital
- Narrabri Jockey Club
- Narrabri Junior Rugby Club
- Narrabri Local Aboriginal Land Council
- Narrabri Polocrosse Club
- Narrabri Racecourse Land Manager
- Narrabri RSL subbranch
- Narrabri Rugby League Football Club
- Narrabri Show Society
- National Breast Cancer Foundation
- New England Quarter Horse Association
- Nexus Health and Wellbeing
- Ngaarr Thawun Rural Ag and Environmental Sustainability Indigenous Corporation

- Northern Inland Academy of Sport
- Nosh Narrabri
- NSW Aboriginal Golf Incorporated
- Nungaroo Local Aboriginal Land Council
- Parkinsons Support Group of Narrabri
- PCYC Gunnedah
- Pink Shenanigan's Crew
- Premer Public School
- Quirindi Branch of the Country Women's Association
- Quirindi Grasshoppers Rugby League Football Club
- Quirindi RSL Subbranch
- Red Chief LALC
- Rotary Club of Gunnedah West
- Rotary Club of Narrabri
- Rotary Club of Tamworth West
- Royal Far West
- Sacred Heart School
- Spring Ridge Public School P & C Association
- Square and Round Dance Association of NSW
- St Francis Xaviers Narrabri
- St Mary's College Gunnedah
- Summit Community Services Inc
- Swimming Gunnedah Inc
- Tambar Springs Progress Association
- Tamworth and District Campdraft Club
- Tamworth Business Chamber
- Tamworth Crows
- The Tiny Foxes Pty Ltd
- VRL Memorial women's rugby league team
- Wean Jockey Club
- Wee Waa Aboriginal Local Land Council
- Wee Waa High School
- Wee Waa Lions Club
- Wee Waa Show Society Inc
- Weeks of Speed Gunnedah
- Werris Creek Golf Club Anglers Club
- Werris Creek Public School
- Werris Creek Rugby League Club
- Werris Creek Swimming Club
- Westpac Rescue Helicopter Service
- White Elephant Ball
- Yallambee Homes for the Aged

9 INDEPENDENT AUDIT

In 2023, TCM was required to complete both an Independent Environmental Audits (IEA) and Independent Biodiversity Audit (IBA). Details of previous audits and a brief outcome of these audits conducted in 2023 are discussed below, and the next IEA will be addressed in the following reporting period (2026).

9.1 Independent Biodiversity Audit (EPBC)

The Commonwealth Department of Agriculture, Water and Environment (DAWE) directed TCM to undertake an Independent Compliance Audit of the EPBC Approval 2011/5923 including site inspections of the mine site and Willeroi BOA. An audit was required during the reporting period.
The Tarrawonga Independent Biodiversity Audit was completed by 11 August 2023 and submitted to NSW DPE and accepted on 22 November 2023 as satisfying NSW Project Approval 11_0047 Schedule 3 Condition 50. The Tarrawonga Independent Biodiversity Audit 2023 identified two additional management measures for the Mine Rehabilitation than those identified in the RMP and BMP recommended to be implemented to improve rehabilitation outcomes. The Audit also found for the BOS that the revegetation is progressing adequately towards the completion criteria, and no additional measures are required to augment the TCM BOS. The Tarrawonga Independent Biodiversity Audit identified no non-compliance. There was no Leard Forest Regional Biodiversity Strategy Review during the reporting period. Next Independent Biodiversity Audit is due by the end of September 2026.

9.2 Independent Environmental Audit (IEA)

In accordance with Sch 5, Cond 10 of MP 11_0047, a 3 yearly Independent Environmental Audit (IEA) and Biodiversity component was conducted between July and August 2023.

Comments regarding the 2023 IEA's can be found in the 2023 Annual Review and can be found on Tarrawonga's website, as well as the full audit reports.

The next IEA is scheduled to be completed in 2026.

9.3 Reportable Incidents

On the 29 October 2025 TCM reported an exceedance of the PM10 24hr average limit set out within Schedule 3 Condition 24 of 50 µg/m³. The 24hr average PM10 levels at Coomalgah HVAS monitor was 167 µg/m³ on the 9th of October 2025. TCM initiated an Investigation by an air quality specialist to

identify the cause of the event, and it was determined that TCM contributed <1µg/ m³ or <1% of the total reported level of 167µg/m³.

It was determined likely that the results obtained at the Coomalgah HVAS monitor was impacted by a localised dust source not related to Tarrawonga Mining operations. No further action was deemed to be required.

9.4 Non-compliances

Tarrawonga had no non-compliances during the reporting period.

Table 9-1 - Non-compliance Action plan

Non - Compliance	Date / Location	Cause	Action Plan	Status/Estimated Completion Date
No non-compliances for 2025				

9.5 Regulatory Actions

No regulatory action was undertaken on Tarrawonga during the reporting Period.

10 ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

The following measures will be continued or implemented in the next reporting period:

Table 10-1 - Summary of activities for 2025

	Activity Description	Timing
1	Update and review Environmental management plans as required by the MP 11_0047.	Ongoing throughout the year
2	Undertake rehabilitation and mining activities in accordance with the most recent Forward Program.	Ongoing throughout the year
3	Continue environmental monitoring and management.	Ongoing throughout the year
4	Continue implementation of approved Leard State Forest Mining Precinct Strategies.	Ongoing throughout the year
5	Continue community liaison and engagement with local stakeholders	Ongoing throughout the year

Appendix 1: Blast Monitoring Data

BLAST MONITORING DATA

Environmental Blast Monitoring

Tarrawonga Coal Pty Ltd ACN 100 742 185

SHOT NO	LOCATION I.D	DATE	MONITOR LOCATION	PEAK OVERPRESSURE (dBL)	PEAK GROUND PRESSURE (mm/s)	Shot Time	Fume Rating	Trigger Event Code	Comments
1345	TN34_0611_JE	10-Jan	Coomalgah	96.10	0.56	11.06am	NIL	TRG2M4	
			Tarrawonga	110.80	0.6				
1346	TC37_0711_RL350 / TC34_0710_JE_PS	15-Jan	Coomalgah	100.20	0.55	1.25pm	NIL	TRG2M5	
			Tarrawonga	98.50	0.35				
1347	TC34_0710_JE	25-Jan	Coomalgah	97.90	0.33	9.07am	NIL	TRG2M8	
			Tarrawonga	106.40	0.46				
1348	TN30_0105_NG	30-Jan	Coomalgah	110.00	0.08	4.02pm	NIL	TRG2MA	
			Tarrawonga	102.20	0.1				
1349	TC 34_0710_JE	6-Feb	Coomalgah	96.60	0.05	11.26am	NIL	TRG2MD	
			Tarrawonga	89.90	0.05				
1350	TC54_19_NG	8-Feb	Coomalgah	84.00	0.15	9.02am	NIL	TRG2ME	
			Tarrawonga	93.70	0.13				
1351	TC34_0106_JE_PS, TN34_0206_MN_PS	13-Feb	Coomalgah	96.80	0.59	11.57am	NIL	TRG2MF	
			Tarrawonga	106.30	0.59				
1352	TN30 0608 NG	15-Feb	Coomalgah	93.50	0.06	4:11pm	NIL	TRG2MG	
			Tarrawonga	87.20	0.04				
1353	TN37 0511 RL320 +PS-A	25-Feb	Coomalgah	98.40	0.27	15:11	NIL	TRG2MO	
			Tarrawonga	102.00	0.42				
1354	TN/TC34 0206 JE	7-Mar	Coomalgah	102.60	0.35	10:58	NIL	TRG2MR	2 Complaints Received
			Tarrawonga	103.80	0.48				
1355	TN37105 BC BR	15-Mar	Coomalgah	88.00	0.18	4:35pm	NIL	TRG2MS	
			Tarrawonga	99.30	0.32				
1356	TN37_0508_BC	18-Mar	Coomalgah	85.90	0.04	4.00pm	NIL	TRG2MT	
			Tarrawonga	89.90	0.04				
1357	TN32_0810_VY_PS, TN34_0610_MN_V2	21-Mar	Coomalgah	91.20	0.1	3.58pm	NIL	TRG2MU	
			Tarrawonga	84.40	0.21				
1358	7_1113_BR, TC37_0508	25-Mar	Coomalgah	96.20	0.04	11:37am	NIL	TRG2MV	
			Tarrawonga	92.60	0.06				
1359	TC37_0711_320RL	2-Apr	Coomalgah	96.70	0.31	1:19pm	NIL	TRG2N1	
			Tarrawonga	102.40	0.33				
1360	TN31_0710_VY, TN31_0710_VY_MS	9-Apr	Coomalgah	105.80	0.31	4:30	NIL	TRG2N2	
			Tarrawonga	114.50	1.1				
1361	TC34_0810_MN_PS	12-Apr	Coomalgah	101.60	0.3	11:18	1A	TRG2N3	
			Tarrawonga	103.30	0.3				
1362	TN31_0610_VY	17-Apr	Coomalgah	89.50	0.37	11:51	NIL	TRG2N4	
			Tarrawonga	97.10	1.2				
1363	TE01_01_350RL	22-Apr	Coomalgah	86.60	0.46	12:43	NIL	TRG2N5	
			Tarrawonga	93.50	0.59				
1364	TN37_01_BC	26-Apr	Coomalgah	88.40	0.11	3:53pm	NIL	TRG2N9	
			Tarrawonga	94.60	0.08				
1365	TN34_0407_MN	30-Apr	Coomalgah	81.10	0.16	12:50pm	NIL	TRG2NB	
			Tarrawonga	80.10	0.15				
1366	TN34_0104_MN	5-May	Coomalgah	82.00	0.19	4:26pm	NIL	TRG2ND	
			Tarrawonga	97.90	0.28				
1367	TC34_0710_MN	10-May	Coomalgah	89.50	0.23	4:10pm	NIL	TRG2NF	
			Tarrawonga	112.70	0.38				
1368	TN34_01_MN	13-May	Coomalgah	91.70	0.23	12:54pm	NIL	TRG2NG	
			Tarrawonga	102.60	0.75				
1369	TC34_0306_MN	17-May	Coomalgah	89.30	0.17	2:29pm	NIL	TRG2NH	
			Tarrawonga	112.80	0.47				
1370	TN37_0812_BC	23-May	Coomalgah	98.90	0.05	4:07pm	1A	TRG2NO	
			Tarrawonga	100.30	0.09				
1371	TN37_01_JE_PS	26-May	Coomalgah	83.50	0.6	1:02pm	1B	TRG2NP	

[illegible]	[illegible]	[illegible]	Tarrawonga	98.60	0.5	[illegible]	[illegible]	[illegible]	
1372	TN36_01_274RL	10-Jun	Coomalgah	100.80	0.64	11:30am	2A	TRG2NT	
			Tarrawonga	99.00	0.85				
1373	TN32_0310_NG_PS	16-Jun	Coomalgah	82.00	0.32	11:52am	1A	TRG2NV	
			Tarrawonga	92.20	0.59				
1374	TN37_0506_RL274	1-Jul	Coomalgah	96.10	0.38	10:38am	2A	TRG206	
			Tarrawonga	95.80	0.26				
1375	TN31_0710_NG	3-Jul	Coomalgah	93.30	0.1	3:21pm	NIL	TRG208	
			Tarrawonga	92.20	0.08				
1376	TN31_0206_NG	11-Jul	Coomalgah	88.50	0.09	12.50PM	NIL	TRG2OC	
			Tarrawonga	92.90	0.18				
1377	TN_0709_274RL + PS	18-Jul	Coomalgah	89.00	0.22	11:59am	1B	TRG2OF	
			Tarrawonga	99.50	0.22				
1378	TN_37_1012_RL	29-Jul	Coomalgah	90.30	0.21	1:05pm	1B	TRG2OJ	
			Tarrawonga	101.20	0.2				
1379	TE02_12_RL350	12-Aug	Coomalgah	98.60	0.08	11:19am	1A	TRG2OU	
			Tarrawonga	97.80	0.11				
1380	TN32_0610_VY	16-Aug	Coomalgah	103.80	0.35	10:06am	NIL	TRG2OX	
			Tarrawonga	105.60	0.72				
1381	TN37_405_RL274_TRIM	25-Aug	Coomalgah	86.50	0.45	11:41am	NIL	TRG2P2	
			Tarrawonga	86.40	0.44				
1382	TN32_0105_VY	29-Aug	Coomalgah	100.00	0.41	10:02am	NIL	TRG2P3	
			Tarrawonga	98.50	0.59				
1383	TC34_0307_VY	5-Sep	Coomalgah	87.00	0.22	11:53am	NIL	TRG2P4	
			Tarrawonga	99.00	0.34				
1384	TN37_0105_JE	13-Sep	Coomalgah	101.10	0.68	11:54am	1A	TRG2PC	
			Tarrawonga	106.20	0.52				
1385	TN37_0506_JE	20-Sep	Coomalgah	106.00	0.52	13:55PM	1A	TRG2PG	
			Tarrawonga	99.40	0.46				
1386	TN39_0205_BR	1-Oct	Coomalgah	100.00	0.13	9:10am	NIL	TRG2PL	
			Tarrawonga	102.80	0.17				
1387	TN37_0712_MN_PS	11-Oct	Coomalgah	97.80	0.27	9:02am	NIL	TRG2PO	
			Tarrawonga	89.50	0.42				
1388	TN32_0104_NG	13-Oct	Coomalgah	87.20	0.09	11:01am	NIL	TRG2PP	
			Tarrawonga	87.20	0.07				
1389	TN32_0510_NG	18-Oct	Coomalgah	84.20	0.09	9:01am	NIL	TRG2PR	
			Tarrawonga	87.80	0.08				
1390	[illegible] TC37_07_325RL, [illegible]	28-Oct	Coomalgah	105.40	0.19	9:01am	1A	TRG2PX	
			Tarrawonga	105.60	0.25				
1391	TN37_0708_JE	3-Nov	Coomalgah	109.70	0.23	12:54am	Nil	TRG2PZ	
			Tarrawonga	106.30	0.24				
1392	TN37_12_JE	18-Nov	Coomalgah	87.20	0.22	11:24	NIL	TRG2Q1	
			Tarrawonga	99.10	0.17				
1393	TN37_01_MN	25-Nov	Coomalgah	115.30	0.25	16:05	1a	TRG2Q3	within 5%
			Tarrawonga	89.70	0.44				
1394	TC37_04_BR	2-Dec	Coomalgah	101.40	0.45	11:39	NIL	TRG2Q7	
			Tarrawonga	89.90	0.51				
1395	TC37_0507_BR	12-Dec	Coomalgah	101.20	0.34	11:28	1A	TRG2QF	
			Tarrawonga	102.90	0.25				
1396	TC37_1014_RL312_TE 01_13_RL343	19-Dec	Coomalgah	107.00	0.29	11:15		TRG2QH	
			Tarrawonga	102.70	0.31				

Appendix 2: HVAS Monitoring Data

HVAS MONITORING DATA

COOMALGAH PM_{10} 24Hrs average at HIGH VOLUME AIR SAMPLER		
Date	**µg/m³**	**Comments**
6/01/2025	20.5	
12/01/2025	6.3	
18/01/2025	7.8	
24/01/2025	44.6	
30/01/2025	22.7	
5/02/2025	29.4	
11/02/2025	10.5	
17/02/2025	12.6	
23/02/2025	10.5	
1/03/2025	29.8	
7/03/2025	18.5	
13/03/2025	12	
19/03/2025	15.8	
25/03/2025	10.5	
31/03/2025	5.8	
4/06/2025	14.6	
4/12/2025	10.5	
18/04/2025	20.5	
24/04/2025	24.8	
30/04/2025	8.2	
5/06/2025	5.9	
5/12/2025	11.8	
18/05/2025	14.8	
24/05/2025	8.8.	
30/05/2025	7.1	
6/05/2025	0.7	
6/11/2025	3.4	
17/6/2025	10.8	
23/6/2025	25.7	
29/6/2025	25.4	
5/07/2025	10.6	
11/07/2025	11.5	
17/07/2025	6.7	
23/7/2025	3.7	
29/7/2025	7	
4/08/2025	10.5	
16/08/2025	7.2	
22/08/2025	4.7	
28/08/2025	6.6	
3/09/2025	16.3	
9/09/2025	11.6	
15/09/2025	11.6	
21/09/2025	4.6	
27/09/2025	18.7	
3/10/2025	15.1	
9/10/2025	167	Elevated result - Reported to DPIE and Investigated - Not attributed to TCM
15/10/2025	21.6	
21/10/2025	21.7	
27/10/2025	22.1	
2/11/2025	11.1	
8/11/2025	9.5	
14/11/2025	20.1	
20/11/2025	16.0	
26/11/2025	12.8	
2/12/2025	1.3	
8/12/2025	8.6	
14/12/2025	5.5	
20/12/2025	25.9	
26/12/2025	14.9	

Appendix 3: SW Monitoring Data

SURFACE WATER MONITORING DATA

Quarterly Surface Water Monitoring Results

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
5 March 2020	VOID	8.17	2420	380	4	<5	0.001	0.001	0.001	0.01	
6 May 2020	VOID	7.8	3290	34	<1	<5	----	0.012	----	----	
28 August 2020	VOID	8.36	3600	25	30	<5	----	----	----	----	
12 November 2020	VOID	8.58	1700	40	2	5	----	----	----	----	
12 February 2021	VOID	8.5	2040	42	<1	<5	0.03	0.008	0.06	<0.01	
17 May 2021	Void	8.72	1540	17	-	<5	-	0.004			
16 August 2021	Void	8.84	1240	11	-	<5	-	0.006			
19 November 2021	Void	8.78	1970	64	-	<5	-	0.014		0.01	

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
14 March 2022	VOID	8.36	3060	8	2	<5	0.003	0.002	0.058	<0.01	
4 July 2022	VOID	8.52	2730	31	4	<5	-	0.02	0.064	<0.01	
18 August 2022	VOID	8.59	1050	18	-	<5	-	0.004	-	-	
18 November 2023	Void	8.5	1850	7	0.024	<0.001	0.004	0.003	0.025	<0.01	

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
14 February 2023	Void	8.63	2900	22	-	<5	-				
17 May 2023	Void	8.66	2700	7	-	<5	-				

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
21 August 2023	Void	8.22	2920	1080	-	<5	-				
12 December 2023	Void	8.92	3300	51	-	<5	-				
10 February 2024	Void	9.26	3750	22	-	<5	-				

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
11 March 2024	Void	7.89	2880	105	-	<5	-				
24 March 2024	Void	8.70	461	1520	-	<5	-				

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
22 April 2024	Void	8.44	3430	84	-	<5	-	0.032	0.072	<0.01	
7 August 2024	Void	8.70	461	1520	-	<5	-				
28 November 2024	Void	8.44	3430	84	-	<5	-	0.032	0.072	<0.01	

Date	Sample Location	pH	EC (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (mg/L)	Grease & Oil (mg/L)	Antimony (mg/L)	Arsenic (mg/L)	Molybdenum (mg/L)	Selenium (mg/L)	Comments
14 February 2025	Void	8.95	3540	74	-	<5	-	0.02	-	-	
8 May 2025	Void	8.07	500	1040	-	<5	-	0.005	0.008	<0.01	
11 August 2025	Void	8.49	718	12	-	<5	-	0.006	-	-	
24 November 2025	VOID	8.7	1734	10		<5		0.012	0.043	<0.01	

Appendix 4: GW Monitoring Data

GROUNDWATER MONITORING DATA

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters: pH - Field	Field Parameters: EC - Field - µs/cm	Field Parameters: Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions: Hydroxide Alkalinity as CaCO3 - mg/L	Major Anions: Carbonate Alkalinity as CaCO3 - mg/L	Major Anions: Bicarbonate Alkalinity as CaCO3 - mg/L	Major Anions: Alkalinity - mg/L	Major Anions: Sulfate (SO4) - mg/L	Major Anions: Chloride (Cl) - mg/L	Major Cations: Calcium (Ca) - mg/L	Major Cations: Magnesium (Mg) - mg/L	Major Cations: Sodium (Na) - mg/L	Major Cations: Potassium (K) - mg/L
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**			
NEPC Guideline - Agricultural Irrigation (mg/L)									**600**										
NEPC Guideline - Livestock (mg/L)									**2400**					**1000**		**1000**			
THUIN																			
MW1	18-Mar-20	7.36	8.03	7.9	3410	21.6	8.06	3520	2020	<1	<1	687	687	224	675	38	48	652	22
MW1	11-Jun-20	7.42	8.09	7.8	3490	20.3													
MW1	23-Sep-20	7.27	7.94	7.9	3500	19	8.16	3260	2040	<1	<1	780	780	211	616	34	49	665	23
MW1	8-Dec-20	6.80	7.47	7.9	3510	17.7													
MW1	4-Mar-21	6.75	7.42	7.97	3390	21.4	8	3420	2220	<1	7	796	802	240	654	32	49	694	23
MW1	21-Jun-21	6.90	7.57	7.84	3480	19.1													
MW1	2-Sep-21	8.14	8.81	6.72	3520	16.5	7.57	3530	2290	<1	<1	729	729	208	628	45	53	669	25
MW1	31-Dec-21	6.93	7.6	7.32	3600	26.2													
MW1	21-Mar-22	6.80	7.47	7.54	3910	22.2	7.72	3540	2300	<1	<1	693	693	214	680	41	53	645	24
MW1	6-Jun-22	6.70	7.37	7.52	3580	18.2													
MW1	28-Sep-22	6.46	7.13	7.58	3490	21	7.8	3470	2260	<1	<1	713	713	222	710	42	54	640	26
MW1	12-Dec-22	6.12	6.79	7.75	3420	22.4													
MW1	24-Mar-23	5.74	6.41	7.37	3600	21.9	8	3340	2170	<1	<1	721	721	213	635	41	51	628	24
MW1	9-Jun-23	5.73	6.4	7.73	3.83	18.3													
MW1	28-Sep-23	5.61	6.28	6.98	3390	22.6	7.8	3600	2340	<1	20	776	796	247	636	42	53	670	24
MW1	11-Dec-23	5.45	6.12	7.24	2810	33.5													
MW1	12-Mar-24	5.66	6.33	7.25	3260	25.7	7.52	3360	2180	<1	<1	759	759	245	652	33	47	614	20
MW1	20-Jun-24	5.69	6.36	7.22	3880	17.5													
MW1	24-Sep-24			6.91	3290	22.7	7.53	3470	2260	<1	<1	759	759	227	591	40	50	728	21
MW1	5-Dec-24	5.69	6.36	7.12	3360														
MW1	27-Mar-25	5.77	6.44	7.03	3050	19.7	7.76	3250	2030	<1	<1	712	712	209	562	36	46	687	20
MW1	2-Jul-25	5.76	6.43	7.15	3340	17.1													
MW1	9-Sep-25	5.75	6.42	7.46	3310	19.1	8.27	3070	2000	<1	<1	741	741	218	590	33	47	97	20
MW1	18-Dec-25	5.72	6.39	7.3	2790	24.8													
MW1		-0.67																	

Sample Location	Date	Total Metals: Aluminium (Al) - mg/L	Total Metals: Arsenic (As) - mg/L	Total Metals: Boron (B) - mg/L	Total Metals: Barium (Ba) - mg/L	Total Metals: Beryllium (Be) - mg/L	Total Metals: Cadmium (Cd) - mg/L	Total Metals: Cobalt (Co) - mg/L	Total Metals: Chromium (Cr) - mg/L	Total Metals: Copper (Cu) - mg/L	Total Metals: Manganese (Mn) - mg/L	Total Metals: Nickel (Ni) - mg/L	Total Metals: Lead (Pb) - mg/L	Total Metals: Selenium (Se) - mg/L	Total Metals: Vanadium (V) - mg/L	Total Metals: Zinc (Zn) - mg/L	Total Metals: Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water		**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
NEPC Guideline - Agricultural Irrigation (mg/L)		**5**	**0.1**	**0.5**			**0.01**	**0.05**	**1**	**0.2**	**2**	**0.02**		**0.02**		**2**	**0.2**	**0.002**											
NEPC Guideline - Livestock (mg/L)		**5**	**0.5**	**5**			**0.01**	**1**		**0.5**		**1**				**20**		**0.002**		**30**	**400**								
THUIN																													
MW1	18-Mar-20	<0.01	<0.001	<0.05	0.047	<0.001	<0.0001	<0.001	<0.001	0.005	0.208	0.01	<0.001	<0.01	<0.01	0.013	0.11	<0.0001	0.02	<0.01	<0.01	<0.01	37.4	34.8	3.68	<20	<50	<20	<100
MW1	11-Jun-20																												
MW1	23-Sep-20	0.07	<0.001	<0.05	0.05	<0.001	<0.0001	<0.001	0.002	0.015	0.064	0.004	0.002	<0.01	<0.01	0.015	0.25	<0.0001	0.03	<0.01	0.14	0.14	37.4	35.2	2.91	<20	<50	<20	<100
MW1	8-Dec-20																												
MW1	4-Mar-21	0.05	<0.001	<0.05	0.047	<0.001	<0.0001	<0.001	0.022	0.039	0.085	0.136	0.004	<0.01	<0.01	0.026	0.72	<0.0001	0.14	<0.01	0.22	0.22	39.5	36.4	4.04	<20	<50	<20	<100
MW1	21-Jun-21																												
MW1	2-Sep-21	0.71	<0.001	<0.05	0.061	<0.001	<0.0001	<0.001	0.013	0.029	0.129	0.02	0.008	<0.01	<0.01	0.078	1.4	<0.0001	0.7	0.17	0.31	0.31	0.7	0.07	0.02	<20	<100	<20	<100
MW1	31-Dec-21																												
MW1	21-Mar-22	0.03	<0.001	<0.05	0.053	<0.001	<0.0001	<0.001	0.017	0.015	0.041	0.015	0.002	<0.01	<0.01	0.029	0.23	<0.0001	0.03	<0.01	0.26	0.26	37.5	35.1	3.32	<20	<50	<20	<100
MW1	6-Jun-22																												
MW1	28-Sep-22	0.1	<0.001	<0.05	0.052	<0.001	<0.0001	<0.001	0.023	0.026	0.06	0.027	0.006	<0.01	<0.01	0.047	0.45	<0.0001	0.04	<0.01	0.85	0.85	38.9	35	5.21	<20	<50	<20	<100
MW1	12-Dec-22																												
MW1	24-Mar-23	<0.01	<0.001	<0.05	0.047	<0.001	<0.0001	<0.001	0.02	0.01	0.003	0.019	<0.001	<0.01	<0.01	0.021	<0.05	<0.0001	<0.01		0.47	0.47							<100
MW1	9-Jun-23																												
MW1	28-Sep-23	<0.01	<0.001	0.12	0.049	<0.001	<0.0001	<0.001	0.22	0.011	<0.001	0.021	<0.001	<0.01	<0.01	0.03	<0.05	<0.0001	0.02	<0.01	0.54	0.54	39	36.2	3.69	<20	<50	<20	<100
MW1	11-Dec-23																												
MW1	12-Mar-24	<0.01	<0.001	<0.05	0.045	<0.001	<0.0001	<0.001	0.007	0.036	0.006	0.025	<0.001	<0.01	<0.01	0.026	<0.05	<0.0001	0.15	<0.01	0.09	0.09	38.6	32.7	8.3	<20	<50	<20	<100
MW1	20-Jun-24																												
MW1	24-Sep-24	<0.01	<0.001	<0.05	0.046	<0.001	<0.0001	<0.001	0.004	0.029	0.002	0.013	<0.001	<0.01	<0.01	0.021	<0.05	<0.0001	0.02	0.01	0.09	0.1				<20	<50	<20	<100
MW1	5-Dec-24																												
MW1	27-Mar-25	<0.01	<0.001	<0.05	0.043	<0.001	<0.0001	<0.001	0.005	0.004	0.004	0.01	<0.001	<0.01	<0.01	0.018	<0.05	<0.0001	0.02	<0.01	0.09	0.09	34.4	36	2.2	<20			
MW1	2-Jul-25																												
MW1	9-Sep-25	<0.01	<0.001	<0.05	0.041	<0.001	<0.0001	<0.001	<0.001	0.01	0.006	0.003	<0.001	<0.01	<0.01	0.009	<0.05	<0.0001	<0.01	<0.01	0.07	0.07	36	36.1	0.13	<20		<20	
MW1	18-Dec-25																												
MW1																													

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
THUIN																																															
MW2	18-Mar-20	3.15	3.94	7.1	470	22.8	7.59	496	310	<1	<1	162	162	19	34	2	2	106	2	2.78	0.001	0.07	0.008	<0.001	<0.0001	<0.001	0.004	<0.001	0.028	0.002	<0.001	<0.01	<0.01	0.009	1.8	<0.0001	0.01	<0.01	1.8	1.8	4.59	4.66	0.71	<20	<50	<20	<100
MW2	11-Jun-20	3.18	3.97	7.3	490	20.8																																									
MW2	23-Sep-20	3.39	4.18	7.2	505	18.2	7.39	435	299	<1	<1	187	187	14	29	<1	<1	101	1	1.22	0.001	0.06	0.008	<0.001	<0.0001	<0.001	0.001	0.002	0.054	0.001	<0.001	<0.01	<0.01	0.01	1.1	<0.0001	<0.01	<0.01	0.15	0.15	4.84	4.42	4.61	<20	<50	<20	<100
MW2	8-Dec-20	3.71	4.5	7.3	535	16.5																																									
MW2	4-Mar-21	3.46	4.25	6.99	462	21.3	7.03	468	304	<1	<1	176	176	19	33	2	1	104	2	1.91	0.002	<0.05	0.022	<0.001	<0.0001	0.005	0.002	0.02	0.245	0.005	0.003	<0.01	<0.01	0.014	1.43	<0.0001	<0.01	<0.01	0.71	0.71	39.5	36.4	4.04	<20	<50	<20	<100
MW2	21-Jun-21	3.46	4.25	7.05	527	17.7																																									
MW2	2-Sep-21	3.42	4.21	6.36	676	16.5	6.97	615	400	<1	<1	254	254	24	43	2	2	138	2	0.92	<0.001	0.06	0.015	<0.001	<0.0001	0.003	<0.001	0.003	0.127	0.003	0.002	<0.01	<0.01	0.017	0.61	<0.0001	0.01		1.09	109				<20	<50	<20	<100
MW2	29-Dec-21	3.29	4.08	6.74	822	26.6																																									
MW2	21-Mar-22	3.51	4.3	6.82	952	21.5	6.94	848	551	<1	<1	275	275	38	81	2	2	185	2	0.59	<0.001	0.05	0.014	<0.001	<0.0001	0.002	<0.001	0.004	0.108	0.002	0.002	<0.01	<0.01	0.053	0.38	<0.0001	0.03	0.02	0.66	0.68	8.57	8.36	1.23	<20	<50	<20	<100
MW2	6-Jun-22	3.52	4.31	6.59	826	17.8																																									
MW2	28-Sep-22	2.66	3.45	6.69	806	19.9	7.03	754	484	<1	<1	304	304	30	60	3	2	176	3	4.8	0.002	<0.05	0.031	<0.001	<0.0001	0.005	0.003	0.003	0.17	0.004	0.003	<0.01	0.01	0.013	4.47	<0.0001	<0.01	0.01	4.28	4.29	8.39	8.05	2.1	<20	<50	<20	<100
MW2	12-Dec-22	3	3.79	6.91	906	20.7																																									
MW2	24-Mar-23	3.1	3.89	6.41	946	23.3	7.38	961	625	<1	<1	354	354	45	90	5	4	202	3	<0.01	<0.001	0.13	0.013	<0.001	<0.0001	0.002	<0.001	<0.001	0.168	0.002	0.001	<0.01	<0.01	0.028	<0.001	<0.001	0.34										
MW2	9-Jun-23	3.53	4.32	6.87	979	18.8																																									
MW2	28-Sep-23	3.58	4.37	6.31	778	22.6	7.1	859	558	<1	<1	378	378	33	67	4	4	196	3	<0.01	0.001	0.12	0.006	<0.001	<0.0001	<0.001	<0.001	0.002	<0.001	0.002	<0.001	<0.01	<0.01	0.028	0.34	<0.0001	0.08	0.05	0.73	0.78	10.5	9.44	5.54	<20	<50	<20	<100
MW2	11-Dec-23	3.61	4.4	7.15	729	23.4																																									
MW2	12-Mar-24	3.81	4.6	6.89	716	22.6	7.16	714	464	<1	<1	296	296	26	43	3	2	157	2	0.02	<0.001	0.1	0.003	<0.001	<0.0001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.01	<0.01	<0.005	<0.05	<0.0001	0.25	<0.01	0.81	0.81	7.67	7.19	3.19				
MW2	20-Jun-24	3.79	4.58	7.64	831	16.2																																									
MW2	24-Sep-24	3.43	4.22	7.04	655	21.5	7.18	669	435	<1	<1	259	259	32	40	4	2	167	2	<0.1	0.002	0.08	0.011	<0.001	<0.0001	0.002	<0.001	0.003	0.002	0.002	0.002	<0.01	<0.01	0.014	0.45	<0.0001	0.03	<0.01	0.97	0.097							ani
MW2	5-Dec-24	3.81	4.6	7.55	592																																										
MW2	27-Mar-25	4.39	5.18	7.06	585	20.4	7.36	596	430	<1	<1	224	224	23	39	2	2	141	2	<0.01	0.002	0.08	0.003	<0.001	<0.0001	<0.001	<0.001	0.001	0.001	<0.001	<0.001	<0.01	<0.01	<0.005	<0.05	<0.0001											
MW2	2-Jul-25	2.8	3.59	7	599	18																																									
MW2	9-Sep-25	2.79	3.58	7.46	474	17.9	7.63	385	250	<1	<1	162	162	18	19	1	<1	691	1	0.02	0.002	<0.05	0.004	<0.001	<0.0001	<0.001	<0.001	0.002	0.003	<0.001	<0.001	<0.01	<0.01	0.009	<0.05	<0.0001	0.01	<0.01	0.23	0.23	4.15	4.29	0.13				
MW2	18-Dec-25	3.25	4.04	7.42	299	24.9																																									
MW2																																															
NAGERO																																															
MW3	23-Mar-20	9.59			2102				1.37																																						
MW3	2-Jun-20	9.18		7.61	2085	14.7	7.89	2150		<1	<1	429	429	74	353	14	5	426	3		<0.001				<0.0001		<0.0001	<0.001	0.079	0.008	<0.001			<0.005	<0.05		0.18	<0.01	0.12	0.12							
MW3	16-Sep-20	8.86		7.61	2176	27.7			1.42ppt																																						
MW3	24-Nov-21	8.95		7.89	2431	31.8	7.94	2680		<1	<1	466	466	122	511	20	24	484	5		<0.001				<0.001		<0.001	<0.001	0.016	0.008	<0.001			0.006	<0.05		0.19	<0.01	0.06	0.06							
MW3																																															
MW3																																															
MW3																																															
TARRAWONGA																																															
MW4	11-Jun-20	10.57	11.19	7.4	3530	21.5																																									
MW4	23-Sep-20	10.38	11	7.3	3580	19.4	8.02	3380	2050	<1	<1	953	953	94	650	67	50	653	8	0.06	<0.001	<0.05	0.086	<0.001	<0.0001	<0.001	<0.001	0.002	0.174	0.002	0.002	<0.01	<0.01	0.051	0.14	<0.0001	8.34	0.03	0.12	0.15	39.3	36.1	4.33	<20	<50	<20	<100
MW4	8-Dec-20	10.35	10.97	7.4	3640	19.2																																									
MW4	14-May-21	10.37	10.99	8.1	3820	18.7	7.71	3750	2440	<1	20	876	896	103	684	75	56	701	14	0.15	<0.001	0.11	0.092	<0.001	<0.0001	<0.001	<0.001	0.006	0.236	0.006	0.008	<0.01	<0.01	0.134	0.32	<0.0001	14.9	0.11	0.22	0.33	39.3	39.2	0.18	<20	680	<20	<100
MW4	7-Jun-21	9.56	10.18	7.26	3530	15.5	7.37	3400	2210	<1	<1	805	805	98	587	84	59	644	11	0.24	<0.001	<0.05	0.166	<0.001	<0.0001	<0.001	0.001	0.01	0.419	0.009	0.013	<0.01	<0.01	0.169	0.58	<0.0001	5.34	0.16	0.07	0.23	34.7	37.3	3.69	<20	<50	<20	<100
MW4	21-Jun-21	9.53	10.15	7.26	3250	18.9																																									
MW4	2-Sep-21	9.48	10.1	6.76	3060	16.5	7.62	3100	2020	<1	<1	871	871	70	490	50	35	613	6	0.13	<0.001	<0.05	0.088	<0.001	<0.0001	<0.001	<0.001	0.002	0.166	0.005	0.003	<0.01	<0.01	0.083	0.003	<0.001	0.9		0.08	0.09				<20	<50	<20	<100
MW4	31-Dec-21	9.91	10.53	7.56	3040	20.2																																									
MW4	21-Mar-22	9.18	9.8	7.55	3290	23.5	7.7	3080	2000	<1	<1	821	821	80	524	40	31	608	6	0.13	<0.001	0.06	0.07	<0.001	<0.0001	<0.001	<0.001	0.003	0.143	0.003	0.002	<0.01	<0.01	0.086	0.21	<0.0001	0.71	0.15	0.2	0.35	32.8	31.1	2.66	<20	280	<20	270
MW4	5-Apr-22	9.18	9.8	7.6	3360	19.3	7.69	2740	1780	<1	<1	889	889	81	501	40	32	625	6	0.11	<0.001	<0.05	0.07	<0.001	<0.0001	0.001	<0.001	0.005	0.151	0.005	0.006	<0.01	<0.01	0.105	0.21	<0.0001	0.67	<0.01	0.37	0.37	33.6	32	2.46	<20	<50	<20	<100
MW4	6-Jun-22	9.05	9.67	7.45	3090	19.2																																									
MW4	28-Sep-22	8.9	9.52	7.39	3010	22.8	7.64	3000	1950	<1	<1	854	854	85	536	40	31	604	6	0.04	<0.001	<0.05	0.058	<0.001	<0.0001	<0.001	<0.001	0.004	0.005	0.002	0.002	<0.01	<0.01	0.078	0.11	<0.0001	0.04	0.01	0.37	0.38	34	31	4.59	<20	<50	<20	<100
MW4	12-Dec-22	9.08	9.7	7.51	3050	22.7																																									
MW4	24-Mar-23	7.88	8.5	7.04	2900	24.9	8.03	2860	1860	<1	<1	874	874	78	475	37	30	588	6	<0.01	<0.001	0.08	0.067	<0.001	<0.0001	<0.001	<0.001	0.005	0.013	0.002	0.02	<0.01	<0.01	0.061	0.09	<0.0001	0.17	<0.01	1.98	1.98	32.5	30	3.9	<20	<50	<20	<100
MW4	9-Jun-23	9.05	9.67	7.43	3380	16.7																																									
MW4	28-Sep-23	8.31	8.93	6.62	2990	23.2	7.65	3150	2050	<1	<1	966	966	92	499	47	35	611	6	<0.01	<0.001	<0.05	0.071	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	0.022	<0.05	<0.0001	0.02	<0.01	0.98	0.98	35.3	32	4.96				
MW4	11-Dec-23	8.24	8.86	7.49	3100	21.6																																									
MW4	12-Mar-24	8.27	8.89	7.43	3190	22.6	7.7	3150	2050	<1	<1	902	902	96	558	54	41	628	12	<0.01	<0.001	<0.05	0.084	<0.001	<0.0001	<0.001	<0.001	<0.001	0.342	0.002	<0.001	<0.01	<0.01	0.006	0.1	<0.0001	8.85	0.37	1.58	1.95	35.8	33.7	2.98				
MW4	20-Jun-24	8.16	8.78	7.51	3680	17.3																																									
MW4	24-Sep-24	8.04	8.66	7.23	3180	19.5	7.7	3410	2200	<1	<1	933	933	87	544	66	47	719	10	<0.01	<0.001	<0.05	0.101	<0.001	<0.0001	<0.001	<0.001	<0.001	0.424	0.001	<0.001	<0.01	<0.01	<0.005	0.05	<0.0001	6.16	0.04	1.32	1.36							
MW4	5-Dec-24	7.97	8.59	7.4	3110																																										
MW4	27-Mar-25	8.07	8.69	7.08	3140	21.2	7.93	3260	1970	<1	<1	873	873	93	564	60	46	703	8	<0.01	0.002	<0.05	0.074	<0.001	<0.0001	<0.001	<0.001	0.003	0.090	0.003	<0.001	<0.01	<0.01	0.068	<0.05	<0.0001											
MW4	3-Jul-25	7.89	8.51	7.35	3250	18																																									
MW4	9-Sep-25	7.84	8.46	7.43	3210	22.1	8.21	3060	1990	<1	<1	898	898	99	603	56	45	684	7	<0.01	<0.001	<0.05	0.083	<0.001	<0.0001	<0.001	<0.001	<0.001	0.214	0.002	<0.001	<0.01	<0.01	<0.005	0.2	<0.0001	<0.0001	<0.01	<0.01	0.1	37	36.4	0.8				
MW4	18-Dec-25	7.84	8.46	7.81	2730	24.2																																									
MW4		-0.62																																													

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions						Major Cations			
				pH - Field	EC - Field - µs/cm	Temp - Field - °C				Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**			
TEMPLEMORE																			
MW5	18-Mar-20	2.41	3.2	7.5	835	24.5	7.81	874	504	<1	<1	180	180	48	115	4	3	182	3
MW5	11-Jun-20	2.3	3.09	7.6	675	20.7													
MW5	23-Sep-20	2.34	3.13	7.7	1920	18.3	8.09	2090	1390	<1	<1	461	461	142	360	9	10	432	7
MW5	8-Dec-20	2.67	3.46	7.8	1960	18.1													
MW5	4-Mar-21	2.56	3.35	7.36	874	23	7.47	885	575	<1	<1	245	245	42	129	4	4	193	3
MW5	21-Jun-21	2.07	2.86	7.65	766	18.1													
MW5	2-Sep-21	1.85	2.64	6.8	1771	19.8	7.7	1810	1180	<1	<1	423	423	90	282	7	8	373	7
MW5	29-Dec-21	1.82	2.61	7.7	2054	21.6													
MW5	21-Mar-22	2.35	3.14	8.01	1529	23.1	7.96	1410	916	<1	<1	423	423	64	173	4	5	249	9
MW5	6-Jun-22	1.9	2.69	7.52	830	20													
MW5	28-Sep-22	1.36	2.15	7.66	1874	19.9	7.76	1750	1140	<1	<1	436	436	105	309	8	9	364	8
MW5	12-Dec-22	1.67	2.46	7.88	2022	21.8													
MW5	24-Mar	1.8	2.59	7.13	1412	25.3	7.78	1350	878	<1	<1	480	480	23	133	5	4	191	9
MW5	9-Jun-23	2.13	2.92	7.45	757	16.7													
MW5	28-Sep-23	2.3	3.09	6.97	1862	25.2	7.74	2080	1350	<1	2	506	508	142	343	9	10	428	7
MW5	11-Dec-23	2.48	3.27	7.52	2009	22.8													
MW5	12-Mar-24	2.67	3.46	7.57	1321	28.8	7.81	1480	962	<1	<1	509	509	52	141	6	5	189	10
MW5	20-Jun-24	2.82	3.61	7.85	892	15.5													
MW5	24-Sep-24	2.71	3.5	7.32	2214	22	7.69	2420	1570	<1	<1	469	469	189	395	13	13	541	8
MW5	5-Dec-24	2.77	3.56	7.17	2720														
MW5	27-Mar-25	3.05	3.84	7.09	1276	21.6													
MW5	2-Jul-25	1.99	2.78	7.42	946	18													
MW5	9-Sep-25	1.64	2.43	7.53	1873	18.2	8.16	1820	1180	<1	<1	348	348	168	357	9	10	422	7
MW3	18-Dec-25	2.19	2.98	7.88	1995	26.9													
MW4																			
MW5																			

Sample Location	Date	Total Metals																Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
		Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L												
ANZECC Guideline - stock drinking water		**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
TEMPLEMORE																													
MW5	18-Mar-20	1.8	0.006	<0.05	0.018	<0.001	<0.0001	<0.001	<0.001	<0.001	0.04	0.001	<0.001	<0.01	0.01	0.02	1.35	<0.0001	0.03	<0.01	1.51	1.51	7.84	7.89	0.33	<20	<50	<20	<100
MW5	11-Jun-20																												
MW5	23-Sep-20	4.41	0.01	<0.05	0.034	<0.001	<0.0001	<0.001	0.002	0.006	0.055	0.002	0.003	<0.01	<0.01	0.029	3.28	<0.0001	0.02	<0.01	0.28	0.28	22.3	20.2	4.89	<20	<50	<20	<100
MW5	8-Dec-20																												
MW5	4-Mar-21	5.72	0.006	<0.05	0.029	<0.001	<0.0001	<0.001	0.004	0.013	0.068	0.004	0.002	<0.01	0.01	0.029	4.01	<0.0001	0.03	<0.01	0.54	0.54	9.41	9	2.22	<20	<50	<20	<100
MW5	21-Jun-21																												
MW5	2-Sep-21	5.73	0.009	<0.05	0.041	<0.001	<0.0001	<0.001	0.005	0.016	0.221	0.008	0.011	<0.01	<0.01	0.102	3.5	<0.0001	0.31		0.12	0.12				<20	<50	<20	<100
MW5	29-Dec-21																												
MW5	21-Mar-22	1.49	0.01	<0.05	0.026	<0.001	<0.0001	0.001	0.002	0.01	0.193	0.002	0.016	<0.01	<0.01	0.169	1.44	<0.0001	25.4	0.94	<0.01	0.05	14.7	13.5	4.21	<20	<50	<20	<100
MW5	6-Jun-22																												
MW5	28-Sep-22	3.75	0.008	<0.05	0.034	<0.001	<0.0001	0.001	0.003	0.016	0.124	0.004	0.008	<0.01	<0.01	0.146	2.99	<0.0001	7.14	0.73	0.03	0.76	19.6	17.2	6.62	<20	<50	<20	<100
MW5	12-Dec-22																												
MW5	24-Mar	0.11	0.01	0.08	0.038	<0.001	<0.0001	<0.001	0.004	0.019	0.127	0.004	0.01	<0.01	0.01	0.557	4.33	<0.0001	60.1	<0.01	0.15	0.15	13.8	13.4	1.42	<20	1620	<20	1720
MW5	9-Jun-23																												
MW5	28-Sep-23	<0.01	0.012	0.05	0.02	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	0.006	<0.05	<0.0001	0.08	<0.01	0.16	0.16	22.8	20.1	6.33				
MW5	11-Dec-23																												
MW5	12-Mar-24	<0.01	0.003	0.05	0.019	<0.001	<0.0001	<0.001	<0.001	<0.001	0.079	0.003	<0.001	<0.01	<0.01	0.011	<0.05	<0.001	56.4	0.09	0.01	0.1	15.2	13.2	7.11				
MW5	20-Jun-24																												
MW5	24-Sep-24	<0.01	0.009	<0.05	0.028	<0.001	<0.0001	<0.001	<0.001	0.002	0.05	0.002	<0.001	<0.01	<0.01	0.021	<0.05	<0.001	0.03	<0.01	0.27	0.27							
MW5	5-Dec-24																												
MW5	27-Mar-25																												
MW5	2-Jul-25																												
MW5	9-Sep-25	0.01	0.006	<0.05	0.024	<0.001	<0.0001	<0.001	<0.001	0.005	0.043	0.002	<0.001	<0.01	<0.01	0.025	<0.05	<0.0001	0.02	<0.01	0.66	0.66	20.5	19.8	3.92				
MW3	18-Dec-25																												
MW4																													
MW5																													

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters						Major Anions						Major Cations				Total Metals																											
				pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									4000					1000		1000				5	0.5				0.01	1	1	1		1	0.1	0.02		20		0.002			400								
NAGERO																																															
MW6	2-Jun-06	8.34	9	7.3				2030					720	55	308	59	29	440	8		<0.001																										
MW6	9-Sep-06	8.84	9.5																																												
MW6	11-Jan-07	9.15	9.81	6.89				2030					724	51	252	62	30	426	7		<0.001				<0.0001		<0.005	<0.001		0.011	<0.001			0.08		<0.0001											
MW6	10-Jul-07	9.37	10.03	7.5	2060	18.1		2000					666	47	283	58	27	411	8		0.0005				0.00005		0.0025	0.001		0.004	0.0005			0.01		0.00005											
MW6	18-Jul-07	9.35	10.01																																												
MW6	7-Aug-07	9.32	9.98																																												
MW6	22-Aug-07	9.29	9.95																																												
MW6	5-Sep-07	9.31	9.97																																												
MW6	24-Sep-07	9.07	9.73																																												
MW6	11-Oct-07	9.16	9.82																																												
MW6	26-Nov-07	9.17	9.83																																												
MW6	29-Jan-08	9.06	9.72																																												
MW6	4-Mar-08	8.815	9.475																																												
MW6	22-Apr-08	8.62	9.28	7.1	2000	21.1		2120					670	51	273	64	29	391	9.8		0.001				<0.00005		0.001	0.002		0.006	0.0031			0.005		<0.0001								<0.025	<0.1		
MW6	21-Aug-08	8.545	9.205																																												
MW6	29-Oct-08	8.48	9.15	7.1	2050	23.9		2100					680	50	280	60	27	380	8.5		0.001				0.00005		0.003	0.003		0.004	0.077			0.034		<0.0001								<0.025	0.18		
MW6	29-Jan-09	8.33	9.1																																												
MW6	14-Sep-09	8.65	9.43																																												
MW6	14-Dec-09	8.86	9.64	7.13	2112	23.4	7.3	2100		<1	<1	652	652	39.4	252	56	26	385	8	<0.01	<0.001						<0.005	<0.001	0.336	0.008	0.002			0.01	<0.05	<0.0001		0.02	0.53	0.55	21	21.9	2.24				
MW6	25-Feb-10	8.84	9.62																																												
MW6	11-May-10	8.3	9.08	7.56	2360	21.5		2030	1160	<1	<1	645	645	42.2	261	56	26	380	7		<0.001		0.193	<0.001	<0.0001	0.002	0.002	0.002	0.278	0.003	0.006		<0.01	0.008	2.13	<0.0001	<0.01				21.1	21.6	1.14				
MW6	30-Aug-10	8	8.78	7.2	1927	23.8																																									
MW6	9-Nov-10	7.72	8.5	7.03	1835	24.3																																									
MW6	10-Mar-11	7.41	8.19	7.08	1783	24	7.53	1790		<1	<1	627	627	42	293	55	27	406	9	0.15	<0.001						0.002	0.034	0.047	0.003	0.015			0.216	0.32	<0.0001		0.03	0.97	1	21.7	22.9	2.61				
MW6	6-Jun-11	7.44	8.22	7.15	1670	19.6																																									
MW6	6-Sep-11	Piezo damaged																																													
MW6	7-Dec-11	Piezo damaged																																													
MW6	13-Mar-12	5.74	6.52	7.49	1840	23.4	7.68	1980	1150	<1	<1	624	624	46	262	55	24	390	9	0.15	<0.001		0.125	<0.001	<0.0001	<0.001	0.002	0.009	0.013	0.004	0.001		<0.01	0.071	0.12	<0.0001	<0.01	<0.01	1.44	1.44	20.8	21.9	2.54				
MW6	13-Jun-12	5.87	6.65	7.45	2040	21.3																																									
MW6	4-Sep-12	5.58	6.36	7.82	1840	22	8.08	1990	1210	<1	<1	681	681	39	276	53	25	381	8	0.09	<0.001		0.143	<0.001	<0.0001	<0.001	<0.001	0.012	0.013	0.003	0.003		<0.01	0.072	0.18	<0.0001	<0.01	<0.01	1.13	1.13	22.2	21.5	1.69				
MW6	27-Nov-12	5.55	6.33	7.6	1817	21.1																																									
MW6	20-Mar-13	5.75	6.53	7.46	343	22.8	7.43	351	252	<1	<1	106	106	28	16	12	3	49	8	0.49	0.001		0.037	<0.001	<0.0001	<0.001	0.003	0.081	0.095	0.006	0.009		0.02	0.402	0.56	<0.0001	0.23	0.1	0.6	0.7	3.15	3.18	0.44				
MW6	11-Jul-13	5.88	6.66	7.62	452	20.8																																									
MW6	5-Sep-13	5.96	6.74	7.21	465	21.3	7.8	496	327	<1	<1	132	132	60	25	18	3	75	10	0.86	<0.001	<0.001	0.08	0.038	<0.0001	<0.001	0.002	0.075	0.058	0.005	0.006	<0.01	0.02	0.151	0.93	<0.0001	0.09				4.59	4.66	0.74				
MW6	22-Nov-13	5.85	6.63	7.2	486	20.8																																									
MW6	24-Feb-14	5.84	6.62	7.8	215	22.1	7.51	212	182	<1	<1	66	66	26	5	8	1	29	8	0.48	<0.001	<0.001	<0.05	0.02	<0.0001	0.001	0.008	0.045	0.094	0.005	0.004	<0.01	0.02	0.185	0.5	<0.0001	0.35				2	1.95					
MW6	27-May-14	5.64	6.42	7.5	360	22.1																																									
MW6	9-Sep-14	5.54	6.32	7.6	845	21.4	7.61	854		<1	<1	274	274	46	83	24	7	140	8	1.63	0.002						0.005	0.006	0.154	0.012	0.016			0.13	1.55	<0.0001		<0.01	<0.01	<0.01	8.77	8.07	4.22				
MW6	20-Nov-14	5.55	6.33	7.5	712	21.6																																									
MW6	26-Feb-15	5.64	6.43	7.6	543	22.2	7.67	617	353	<1	<1	173	173	42	43	25	5	89	10	0.13	<0.01	<0.05	0.036	<0.01	<0.0001	<0.001	0.001	0.012	0.059	0.007	0.002	<0.01	<0.01	0.238	0.32	<0.0001	0.06	<0.01	0.62	0.62	5.54	5.79	2.11				
MW6	26-May-15	5.65	6.44	7.5	692	19.7																																									
MW6	27-Aug-15																																														
MW6	4-Dec-15	5.4	6.18	7.8	946	21.2																																									
MW6	24-Feb-16	5.38	6.16	7.6	1012	21.2	7.85	1080	620	<1	<1	327	327	46	125	41	12	203	10	0.31	0.002	0.06	0.083	<0.001	<0.0001	<0.001	0.004	0.018	0.063	0.01	0.006	<0.01	<0.01	0.211	1.94	<0.0001	0.09	<0.01	0.98	0.98	11	12.1	4.73				
MW6	23-May-16	5.36	6.14	7.6	1090	21.8																																									
MW6	6-Sep-16	5.15	5.93	7.6	1080	23.3	7.77	1100		<1	<1	331	331		129	34	10	181	9	0.04	<0.001						<0.001	0.004	0.016	0.007	<0.001			0.079	0.49	<0.0001		<0.01	0.42	0.42	11	10.6	1.97				
MW6	29-Nov-16	4.74	5.52	7.5	1416	21.2																																									
MW6	13-Mar-17	4.68	5.46	7.5	1600	22.8	8.25	1630	980	<1	<1	481	481	45	269	44	20	296	9	0.04	<0.001	0.07	0.103	<0.001	0.0001	<0.001	0.003	0.026	0.008	0.007	0.002	<0.01	<0.01	0.156	0.21	<0.0001	0.01	<0.01	1.1	1.1	18.1	16.9	3.39				
MW6	21-Jun-17	4.77	5.55	7.5	1660	21.8																																									
MW6	13-Sep-17	4.57	5.35	7.6	1660		8.15	1710	1710	<1	<1	573	573	46	221	51	22	318	9	0.05	<0.001	0.08	0.09	<0.001	<0.0001	<0.001	0.007	0.006	0.006	0.008	<0.001	<0.01	<0.01	0.121	0.14	<0.0001	0.03	<0.01	1.7	1.7	18.6	18.4	0.6				
MW6	13-Dec-17	4.55	5.33	7.6	1738	21.7																																									
MW6	22-Mar-18	4.76	5.54	7.8	1833																																										
MW6	12-Jun-18	4.75	5.53	7.7	1828																																										
MW6	13-Sep-18	4.84	5.62	8	2020	21.8	8.23	2090	2090	<1	<1	566	566	48	347	38	26	344	6	0.06	<0.001	0.07	0.11	<0.001	<0.0001	<0.001	0.001	0.002	0.005	0.003	<0.001	<0.01	<0.01	0.007	0.09	<0.0001	0.04	<0.01	1.35	1.35	22.1	19.2	7.14				
MW6	5-Dec-18	4.85	5.63	7.6	2200	21.3																																									
MW6	14-Mar-19	Casing broken																																													
MW6	19-Jun-19	Casing broken																																													
MW6	11-Sep-19	Casing broken																																													
MW6	5-Dec-19	Casing broken																																													
MW6	10-Jun-20	Casing broken																																													
MW6	23-Sep-20	Casing broken																																													
MW6	8-Dec-20	Casing broken																																													
MW6	4-Mar-21	Casing broken																																													
TARRAWONGA MINE - MW7 Decomissioned																																															
MW7	2-Jun-06	73.47	74.3	7.2				2250					1100	34	202	45	43	536	12		0.002																										
MW7	9-Sep-06	79.67	80.5																																												
MW7	11-Jan-07	76.17	77	7.32				1960					935	22	189	23	36	459	8		<0.001				<0.0001		<0.005	<0.001		0.005	<0.001			0.05		<0.0001											
MW7	18-Apr-07	76.07	76.9																																												
MW7	10-Jul-07	77.06	77.89	7.24	2250	18.7		2270					998	23	170	35	36	458	10		<0.001				<0.0001		<0.005	0.001		0.018	<0.001			0.106		<0.0001								<20	410		
MW7	18-Jul-07	77.1	77.93																																												
MW7	7-Aug-07	78.29	79.12																																												
MW7	22-Aug-07	78.45	79.28																																												
MW7	5-Sep-07	78.6	79.43																																												
MW7	24-Sep-07	78.56	79.39																																												
MW7	11-Oct-07	78.72	79.55																																												
MW7	26-Nov-07	79.34	80.17																																												
MW7	29-Jan-08	79.8	80.63																																												
MW7	4-Mar-08	80.27	81.10																																												
MW7	22-Apr-08	80.85	81.68	7.6	2440	21.9		2370					1050	5	188	52	45	483	11		<0.001				0.00014		0.004	0.033		0.017	0.25			0.12		<0.0001											
MW7	21-Aug-08	83.74	84.57																																												
MW7	29-Oct-08	85.99	86.81	7.4	2310	24.8		2300					990	24	180	48	44	470	13		0.001				0.00006		0.005	0.014		0.009	0.088			0.099		<0.0001								<0.025	0.3		
MW7	28-Jan-09	86.99	87.8																																												
MW7	17-Jun-09	86.45	87.5	7.4	2440	20.7		2280	1430	<1	<1	1050	1050	16	169	46	44	481	11		<0.001		0.2	<0.001	<0.0001	<0.001	0.001	0.057	0.047	0.007	0.054		<0.01	0.13	0.43	<0.0001	0.17				26.1	27.1	1.96				
MW7	27-Aug-09	89.99	91.04																																												
MW7	23-Dec-09	89.53	90.58	7.55	2230	27.4	7.49	2240		<1	<1	1050	1050	17.1	182	5	46	556	9	0.03	<0.001						<0.001	0.002	0.075	0.007	0.004			0.015	0.26	<0.0001		<0.01	<0.01	<0.01	26.5	28.5	3.58				
MW7	25-Feb-10	89.64	90.69																																												
MW7	11-May-10	89.85	90.9	8.32	2950	23.9		2330	1380	<1	<1	1010	1010	15.9	182	42	41	478	9		<0.001		0.227	<0.001	<0.0001	<0.001	<0.001	0.009	0.11	0.017	0.046		<0.01	0.054	1.5	<0.0001	0.45				25.6	26.5	1.72				
MW7	30-Aug-10	90.48	91.53	7.52	2385	24.7																																									
MW7	10-Nov-10	90.38	91.43	7.47	2010	26																																									
MW7	14-Mar-11	90.95	92	7.24	2075	26.2	7.57	2220		<1	<1	951	951	23	225	41	41	493	11	0.2	<0.001					0.094	<0.001		0.155	0.01	0.036			0.274	0.74	<0.0001		<0.01	0.07	0.07	25.8	27.1	2.43				
MW7	21-Jun-11	91.31	92.36	7.55	2180	22.3																																									
MW7	8-Sep-11	92.49	93.54	7.35	2160	22.5	7.84	2550	1510	<1	<1	936	936	29	255	10	36	545	10	0.09	0.001		0.18	<0.001	<0.0001	<0.001	<0.001	0.006	0.059	0.007	0.028		<0.01	0.047	0.41	<0.0001	0.55	<0.01	0.02	0.02	26.5	27.4	1.66				
MW7	9-Dec-11	93.89	94.94	7.7	2200	26.8																																									
MW7	19-Mar-12	95.05	96.10	7.25	2460	24.9	7.82	2650	1590	<1	<1	991	991	45	321	35	34	622	11	0.31	<0.001		0.186	<0.001	<0.0001	<0.001	0.002	0.032	0.059	0.009	0.065		<0.01	0.085	0.61	<0.0001	0.52	<0.01	0.03	0.03	29.8	31.9	3.34				
MW7	14-Jun-12	97.70	98.75	7.6	2900	23.6																																									
MW7	6-Sep-12	98.95	100.00	7.33	2730	25.2	7.93	2840	1760	<1	<1	1140	1140	50	342	18	21	678	8	0.52	0.002		0.205	<0.001	<0.0001	<0.001	0.002	0.088	0.057	0.005	0.114		<0.01	0.19	2.84	<0.0001	0.61	<0.01	0.05	0.05	33.5	32.3	1.79				
MW7	28-Nov-12	101.99	103.04																																												
MW7	20-Mar-13	102.49	103.54																																												
MW7	11-Jul-13	103.65	104.7																																												
MW7	5-Sep-13	103.65	104.7																																												
MW7	22-Nov-13	103.43	104.48																																												
MW7	20-Feb-14	103.55	104.6																																												
MW7	27-May-14	103.96	105.01																																												
MW7	9-Sep-14	103.84	104.89																																												
MW7	20-Nov-14	104.01	105.06																																												
MW7	26-Feb-15	104.09	105.14																																												
MW7	26-May-15	104.67	105.46																																												
MW7	27-Aug-15	104.26	105.05																																												
MW7	4-Dec-15	104.35	105.14																																												
MW7	24-Feb-16	104.77	105.56																																												
MW7	23-May-16	105.13	105.92																																												
MW7	1-Sep-16	104.19	104.98																																												
MW7	29-Nov-16	104.41	105.2																																												
MW7	21-Jun-17	105.18	105.97																																												
MW7	13-Dec-17	104.79	105.58																																												
MW7	22-Mar-18	104.97	105.76																																												
MW7	12-Jun-18	106.21	107																																												
MW7	13-Sep-18	104.91	105.7																																												
MW7	5-Dec-18	105.01	105.8	grey mud on probe																																											
MW7	14-Mar-19	106.21	107	Dry																																											
MW7	19-Jun-19	106.21	107	Dry																																											
MW7	11-Sep-19	106.21	107	Dry																																											

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
				Field Parameters						Major Anions						Major Cations				Total Metals																											
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
MW7	6-Dec-19	106.21	107	Dry																																											
MW7	6-Mar-20	104.19	105.0	slime																																											
MW7	10-Jun-20	104.31	105.1	Slime																																											
MW7		Decommissioned No acces, civil works.																																													
TARRAWONGA MINE																																															
MW8	2-Jun-06	13.06	13.8	6.7				2240					588	46	426	161	48	298	9		<0.001																										
MW8	9-Sep-06	13.16	13.9																																												
MW8	11-Jan-07	13.41	14.15	6.7				2260					587	80	411	180	53	319	7		<0.001				<0.0001		<0.005	0.002		0.007	0.001			0.16		<0.0001											
MW8	18-Apr-07	12.86	13.6																																												
MW8	9-Jul-07	13.62	14.36	6.8	2530	18.9		2610					616	80	483	196	55	308	8		<0.001				<0.0001		<0.005	0.005		0.006	0.004			0.102		<0.0001								<20	250		
MW8	18-Jul-07	13.67	14.41																																												
MW8	7-Aug-07	13.66	14.4																																												
MW8	22-Aug-07	13.66	14.4																																												
MW8	5-Sep-07	13.72	14.46																																												
MW8	24-Sep-07	13.64	14.38																																												
MW8	11-Oct-07	13.63	14.37																																												
MW8	26-Nov-07	13.69	14.43																																												
MW8	29-Jan-08	13.54	14.28																																												
MW8	4-Mar-08	13.56	14.3																																												
MW8	22-Apr-08		Bore blocked no sample																																												
MW8	21-Aug-08	13.78	14.52																																												
MW8	29-Oct-08	13.85	14.59	Bore blocked no sample																																											
MW8	28-Jan-09	13.85	14.6																																												
MW8	17-Jun-09	14.02	14.77	Unable to sample - casing blocked																																											
MW8	27-Aug-09	14.02	14.77																																												
MW8	23-Dec-09	14.1	14.85	Unable to sample - casing blocked																																											
MW8	25-Feb-10	13.8	14.55																																												
MW8	11-May-10	13.72	14.47	Unable to sample - casing blocked																																											
MW8	30-Aug-10	13.71	14.46	Unable to sample - casing blocked																																											
MW8	9-Nov-10	13.74	14.49	Unable to sample - casing blocked																																											
MW8	14-Mar-11	14.12	14.87	Unable to sample - casing blocked																																											
MW8	21-Jun-11	13.62	14.37	Unable to sample - casing blocked																																											
MW8	8-Sep-11	13.80	14.55	Unable to sample - casing blocked																																											
MW8	9-Dec-11	13.24	13.99	Unable to sample - casing blocked																																											
MW8	14-Mar-12	12.57	13.32	Unable to sample - casing blocked																																											
MW8	14-Jun-12	12.76	13.51	Blocked 3.2 down pipe																																											
MW8	6-Sep-12	12.63	13.38	Blocked 3.2 down pipe																																											
MW8	28-Nov-12	12.79	13.54	Blocked about 3m down pipe																																											
MW8	20-Mar-13	12.68	13.43	Blocked 3.2 down pipe																																											
MW8	11-Jul-13	12.95	13.7	Blocked 3.2 down pipe																																											
MW8	5-Sep-13	13.00	13.75	Blocked 3.2 down pipe																																											

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6-C10	TRH C10-C40
ANZECC Guideline - stock drinking water									4000					1000		1000				5	0.5				0.01	1	1	1		1	0.1	0.02		20		0.002			400								
MW8	22-Nov-13	13.01	13.76	Blocked 3.2 down pipe																																											
MW8	20-Feb-14	13.07	13.82	Blocked 3.2 down pipe																																											
MW8	27-May-14	13.00	13.75	Blocked 3.2 down pipe																																											
MW8	9-Sep-14	13.13	13.88	Blocked 3.2 down pipe																																											
MW8	20-Nov-15	13.22	13.97	Blocked 3.2 down pipe																																											
MW8	26-Feb-15	13.27	14.02	Blocked 3.2 down pipe																																											
MW8	26-May-15	13.43	14.22	Blocked 3.2 down pipe																																											
MW8	27-Aug-15	13.43	14.22	Blocked 3.2 down pipe																																											
MW8	4-Dec-15	13.46	14.25	Blocked 3.2 down pipe																																											
MW8	24-Feb-16	13.49	14.28	Blocked 3.2 down pipe																																											
MW8	23-May-16	13.54	14.33	Blocked 3.2 down pipe																																											
MW8	1-Sep-16	13.08	13.87	Blocked 3.2 down pipe																																											
MW8	29-Nov-16	12.62	13.41	Blocked 3.2 down pipe																																											
MW8	21-Jun-17	13.07	13.86	Blocked 3.2 down pipe																																											
MW8	13-Dec-17	13.12	13.91	Blocked 3.2 down pipe																																											
MW8	22-Mar-18	12.53	13.32	Blocked 3.2 down pipe																																											
MW8	12-Jun-18	13.33	14.12	Blocked 3.2 down pipe																																											
MW8	13-Sep-18	13.44	14.23	Blocked 3.2 down pipe																																											
MW8	5-Dec-18	13.29	14.08	Blocked 3.2 down pipe																																											
MW8	14-Mar-19	13.62	14.41	Blocked 3.2 down pipe																																											
MW8	19-Jun-19	13.69	14.48	Blocked 3.2 down pipe																																											
MW8	11-Sep-19	13.77	14.56	Blocked 3.2 down pipe																																											
MW8	6-Dec-19	13.76	14.55	Blocked 3.2 down pipe																																											
MW8	18-Mar-20	13.7	14.49	Blocked 3.2 down pipe																																											
MW8	10-Jun-20	13.67	14.46	Blocked 3.2 down pipe																																											
MW8	24-Sep-20	13.44	14.23	Blocked 3.2 down pipe																																											
MW8	8-Dec-20	13.57	14.36	Blocked 3.2 down pipe																																											
MW8	4-Mar-21	13.42	14.21	Blocked 3.2 down pipe																																											
MW8	21-Jun-21	13.07	13.86	Blocked 3.2 down pipe																																											
MW8	2-Sep-21	12.7	13.49	Blocked 3.2 down pipe																																											
MW8	29-Dec-21	12.08	12.87	Blocked 3.2 down pipe																																											
MW8	21-Mar-22	12.36	13.15	Blocked 3.2 down pipe																																											
MW8	6-Jun-22			Blocked 3.2 down pipe																																											
MW8	28-Sep-22	11.82	12.61	Blocked 3.2 down pipe																																											
MW8	12-Dec-22			Blocked 3.2 down pipe																																											
MW8	24-Mar-23			Blocked 3.2 down pipe																																											
MW8	9-Jun-23	11.51	12.3	Blocked 3.2 down pipe																																											
MW8	28-Sep-23	11.75	12.54	Blocked 3.2 down pipe																																											
MW8	11-Dec-23			Blocked 3.2 down pipe																																											
MW8	12-Mar-24	12.15	12.94	Blocked 3.2 down pipe																																											
MW8	20-Jun-24			Blocked 3.2 down pipe																																											
MW8	24-Sep-24	11.51	12.3	Blocked 3.2 down pipe																																											
MW8	6-Dec-24	12.34	13.13	Blocked 3.2 down pipe																																											
MW8	27-Mar-25	11.98	12.77	Blocked 3.2 down pipe																																											
MW8	2-Jul-25	11.62	12.41	Blocked 3.2 down pipe																																											
MW8	9-Sep-25	11.37	12.16	Blocked 3.2 down pipe																																											
MW8	18/12/2025	7.8	8.59																																												
TEMPLEMORE																																															
GW044997	2-Jun-06	6.19	6.4	6.9				3000					768	170	758	112	102	544	4		0.001																										
GW044997	11-Jan-07	6.62	6.83	6.95				1570					495	55	200	45	36	298	1		0.009				<0.0001		<0.005	0.001		0.002	<0.001			0.04		<0.0001											
GW044997	10-Jul-07	6.7	6.91	7.06	785	17.1		1590					441	84	211	46	41	270	1		0.009				0.0002		<0.005	0.001		0.001	<0.001			0.088		<0.0001								<20	740		
GW044997	18-Jul-07	6.73	6.94																																												
GW044997	7-Aug-07	6.79	7																																												
GW044997	22-Aug-07	6.76	6.97																																												
GW044997	5-Sep-07	6.83	7.04																																												
GW044997	24-Sep-07	6.62	6.83																																												
GW044997	11-Oct-07	6.73	6.94																																												
GW044997	26-Nov-07	7.05	7.26																																												
GW044997	29-Jan-08	6.44	6.65																																												
GW044997	4-Mar-08	6.23	6.44																																												
GW044997	4-Apr-08	6.295	6.505																																												
GW044997	22-Apr-08	6.31	6.52	7	3370	21.8		3150					585	276	656	135	125	461	1.7		0.007				<0.00005		<0.001	0.005		0.012	0.0003			0.008		<0.0001								<0.025	<0.1		
GW044997	21-Aug-08	6.81	7.02																																												
GW044997	29-Oct-08	6.86	7.06	cked, no sample																																											
GW044997	29-Jan-09	7	7.2																																												
GW044997	17-Jun-09	7.52	7.77	7.1	3580	18.9		3350	2020	<1	<1	693	693	132	626	112	111	486	8		0.066		0.523	<0.001	0.0003	0.002	0.001	0.134	0.204	0.006	0.016		0.09	0.327	46.9	0.0001	2.93				34.2	36	2.53				
GW044997	28-Aug-09	7.85	8.05																																												
GW044997	23-Dec-09	7.97	8.17	6.95	3050	24.2	6.87	3050		<1	<1	517	517	203	636	40	118	546	3	0.02	0.008						<0.001	0.005	0.021	0.004	<0.0010			0.065	0.07	<0.0001		0.22	21	21.2	32.5	35.5	4.4				
GW044997	25-Feb-10	7.81	8.01																																												
GW044997	11-May-10	7.98	8.18	7.49	3720	22.7		3480	1770	<1	<1	593	593	192	640	114	119	434	2		0.018		0.258	<0.001	<0.0001	<0.001	<0.001	0.014	0.04	0.006	0.002		0.04	0.048	7.2	<0.0001	2.03				33.9	34.4	0.66				
GW044997	30-Aug-10	7.91	8.11	6.82	3720	22.2																																									
GW044997	9-Nov-10	7.8	8	6.8	3010	24.2																																									
GW044997	14-Mar-11	7.25	7.45	6.83	1670	25.9	7.15	1620		<1	<1	410	410	87	333	131	67	160	2	0.04	0.002						<0.001	0.013	0.004	<0.001	<0.001			0.032	<0.05	<0.0001		<0.01	1.8	1.8	19.4	19.1	0.84				
GW044997	6-Jun-11	8.02	8.22	7.3	1514	16.8																																									
GW044997	6-Sep-11	8.73	8.93	6.98	1525	16.7	7.64	1830	1000	<1	<1	400	400	110	308	122	58	174	2	0.05	0.002		0.174	<0.001	<0.0001	<0.001	<0.001	0.01	0.007	<0.001	<0.001		0.02	0.047	<0.05	<0.0001	0.51	<0.01	1.43	1.43	19	18.5	1.31				
GW044997	7-Dec-11	8.32	8.52	7.27	1545	20.6																																									
GW044997	13-Mar-12	5.1	5.3	No sample - pump not operational																																											
GW044997	14-Jun-12	5.18	5.38																																												
GW044997	6-Sep-12	4.8	5	7.95	1750	17.5	7.69	1840	1130	<1	<1	409	409	147	323	120	56	211	2	0.02	0.002		0.128	<0.001	<0.0001	<0.001	<0.001	0.011	0.005	<0.001	<0.001		0.01	0.027	0.07	<0.0001	0.05	<0.01	5	5	20.3	19.8	1.29				
GW044997	27-Nov-12	5.04	5.24	7.61	1665	24.6																																									
GW044997	21-Mar-13	5.78	5.98																																												
GW044997	11-Jul-13	6.37	6.57																																												
GW044997	5-Sep-13	6.65	6.85																																												
GW044997	22-Nov-13	6.87	7.07																																												
GW044997	20-Feb-14	6.93	7.13																																												
GW044997	27-May-14	8.05	8.25																																												
GW044997	9-Sep-14	7.99	8.19																																												
GW044997	20-Nov-14	8.56	8.76																																												
GW044997	26-Feb-15	8.61	8.81																																												
GW044997	26-May-15	8.74	8.94																																												
GW044997	27-Aug-15	10.67	10.87																																												
GW044997	4-Dec-15	10.43	10.63																																												
GW044997	24-Feb-16	10.72	10.92																																												
GW044997	23-May-16	10.99	11.19																																												
GW044997	1-Sep-16	11.18	11.38																																												
GW044997	29-Nov-16	9.17	9.37																																												
GW044997	21-Jun-17	9.68	9.88																																												
GW044997	13-Dec-17	9.67	9.87																																												
GW044997	13-Sep-18	11.6	11.8	7	6120	20.8	7.6	6400	3400	<1	<1	1010	1010	618	1270	179	183	897	3	0.08	0.005	0.14	0.137	<0.001	<0.0001	<0.001	<0.001	0.009	0.028	0.002	<0.001	<0.01	0.02	0.012	1.08	<0.0001	0.04	<0.01	24	24	68.9	63.1	4.38				
GW044997	5-Dec-18	12.09	12.29	7.1	5710	20.7																																									
GW044997	14-Mar-19	12.5	12.7	7.3	5710	21.1	7.75	6350	3810	<1	<1	1050	1050	555	994	166	172	956	4	0.05	0.005	0.13	0.144	<0.001	<0.0001	<0.001	0.004	0.008	0.024	0.002	<0.001	<0.01	0.02	0.021	0.35	<0.0001	0.06	<0.01	17	17	60.6	64.1	2.85			<20	<100
GW044997	19-Jun-19	12.32	12.52	7.1	3470	20.1																																									
GW044997	11-Sep-19	12.66	12.86	7.3	5260	19.9	7.77	5490	3430	<1	<1	892	892	479	1080	181	166	933	4	0.08	0.006	0.12	0.125	<0.001	<0.0001	<0.001	0.001	0.007	0.043	0.002	<0.001	<0.01	0.02	0.017	3.25	<0.0001		<0.01	13.2	13.2	58.3	63.4	4.21	<20	<50	<20	<100
GW044997	5-Dec-19	12.76	12.96	7.3	5290	20.6																																									
GW044997	18-Mar-20	12.67	12.87	7.3	3840	21.5	7.57	3980	2460	<1	<1	549	549	324	791	141	123	555	6	<0.01	0.005	0.15	0.106	<0.001	<0.0001	<0.001	<0.001	0.027	0.056	0.003	<0.001	<0.01	0.02	0.009	0.1	<0.0001	0.05	0.74	47.6	48.3	40	41.4	1.68	<20	<50	<20	<100
GW044997	11-Jun-20	14.7	14.9	7.2	2960	19.5																																									
GW044997	23-Sep-20	10.72	10.92	7.2	3550	20	7.9	3320	2130	<1	<1	926	926	185	624	100	92	543	9	0.22	0.35	0.12	0.154	<0.001	<0.0001	0.001	<0.001	0.012	0.324	0.002	<0.001	<0.01	<0.01	0.029	0.79	<0.0001	<0.01	<0.01	0.02	0.02	40	36.4	4.64	<20	<50	<20	<100
GW044997	8-Dec-20	11.06	11.26	7.2	3580	19.6																																									
GW044997	5-May-21	10.85	11.05	7.11	4870	9.7	7.34	4590	2980	<1	<1	877	877	379	874	115	128	744	11	0.06	0.043	0.13	0.251	<0.001	<0.0001	<0.001	<0.001	0.004	0.195	0.004	<0.001	<0.01	0.01	0.014	16.2	<0.0001	5.56	0.05	0.58	0.63	50.1	48.9	1.16	<20	<50	<20	<100
GW044997	7-Jun-21	10.83	11.03	7.23	4800	14.1	7.32	4550	2960	<1	<1	790	790	382	879	149	132	776	5	0.03	0.013	0.12	0.164	<0.001	<0.0001	0.002	<0.001	0.006	0.181	0.003	<0.001	<0.01	0.02	0.016	4.43	<0.0001	0.02	0.35	4.71	5.06	48.5	52.3	3.7	<20	<50	<20	<100
GW044997	21-Jun-21	10.79	10.99	7.27	4730	17.7																																									
GW044997	2-Sep-21	10.21	10.41	6.44	4010	20.7	7.43	3960	2570	<1	<1	731	731	286	712	111	100	631	3	0.04	0.002	0.1	0.103	<0.001	<0.0001	0.002	<0.001	0.003	0.184	0.002	<0.001	<0.01	<0.01	0.009	0.98	<0.0001	0.04		4.87	5.35				<20	<50	<20	<100
GW044997	29-Dec-21	8.81	9.01	7.18	1253	20.5																																									
GW044997	21-Mar-22	8.58	8.78	7.1	1669	21.9	7.18	1500	975	<1	<1	472	472	84	199	52	42	233	4	0.08	0.004	0.08	0.081	<0.001	<0.0001	0.003	<0.001	0.01	0.388	0.004	<0.001	<0.01	<0.01	0.015	8.69	<0.0001	0.04	<0.01	0.01	0.01	16.8	15.8		<20	<50	<20	<100
GW044997	6-Jun-22	8.65	8.85	7.25	1915	20.3																																									
GW044997	28-Sep-22	8.05	8.25	7.27	3480	20.4	7.45	3460	2250	<1	<1	719	719	184	688	122	117	473	4	0.14	0.009	0.08	0.16	<0.001	<0.0001	<0.001	<0.001	0.004	0.047	0.002	<0.001	<0.01	0.02	0.009	3.84	<0.0001	0.02	0.03	29.1	29.1	37.6	36.4	1.64	<20	<50	<20	<100
GW044997	12-Dec-22	11.04	11.24	8.02	2990	22.4																																									

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions						Major Cations			
				pH - Field	EC - Field - µs/cm	Temp - Field - °C				Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**			
GW044997	24-Mar-23	6.58	6.78	7.03	3140	21.3	7.89	2880	1870	<1	<1	650	650	155	600	77	94	420	7
GW044997	9-Jun-23	6.82	7.02	7.58	3250	18.7													
GW044997	28-Sep-23	7.42	7.62	6.66	3840	22.3	7.35	4270	2780	<1	<1	800	800	177	893	96	130	626	7
GW044997	11-Dec-23	7.97	8.17	7.07	5890	23.9													
GW044997	12-Mar-24	8.72	8.92	7.04	4680	26.4	7.3	5520	3590										
GW044997	20-Jun-24	9.2	9.4	7.03	6860	14													
GW044997	24-Sep-24	9.36	9.56	6.91	5000	22.7	7.4	5860	3810										
GW044997	27-Mar-25	10.05	10.25	6.07	5990	19.6													
GW044997	2-Jul-25	9.55	9.75	6.93	1648	18													
GW044997	9-Sep-25	8.86	9.06	7.12	1071	18.2	7.94	998	649	<1	<1	438	438	49	71	60	37	151	5
GW044997	18-Dec-25	8.72	8.92	7.1	1209	22.5													
GW044997																			
GW044997																			
GW044997																			

Sample Location	Date	Total Metals																Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
		Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L												
ANZECC Guideline - stock drinking water		**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
GW044997	24-Mar-23	0.01	0.002	0.08	0.203	<0.001	<0.0001	<0.001	<0.001	<0.001	1.18	0.001	<0.001	<0.01	<0.01	<0.005	22	<0.0001	0.6	<0.01	0.1	0.1	33.1	30	4.93	<20	<50	<20	<100
GW044997	9-Jun-23																												
GW044997	28-Sep-23	<0.01	0.001	0.06	0.165	<0.001	<0.0001	<0.001	<0.001	<0.001	0.293	<0.001	<0.001	<0.01	<0.01	<0.005	0.76	<0.0001	0.17	<0.01	30.9	30.9	44.8	42.9	2.23				
GW044997	11-Dec-23																												
GW044997	12-Mar-24																												
GW044997	20-Jun-24																												
GW044997	24-Sep-24																												
GW044997	27-Mar-25																												
GW044997	2-Jul-25																												
GW044997	9-Sep-25	<0.01	0.003	0.11	0.065	<0.001	<0.0001	<0.001	<0.001	0.007	0.005	0.002	<0.001	<0.01	<0.01	0.011	<0.05	<0.0001	0.02	0.04	6.51	6.55	11.8	12.7	3.92				
GW044997	18-Dec-25																												
GW044997																													
GW044997																													
GW044997																													

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions						Major Cations				Total Metals																Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
				pH - Field	EC - Field - µs/cm	Temp - Field - °C				Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L												
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
AMBARDO																																															
GW031856	2-Jun-06	15.76	16.4	7.3				1150					459	22	105	50	33	156	3		<0.001				<0.0001		<0.001	0.036		0.001	0.001			0.126		<0.0001								<20	<50		
GW031856	11-Jan-07	19.1	19.74	7.27	910	23.1		1080					457	18	75	47	30	164	3		<0.001				<0.0001		<0.005	0.005		<0.001	<0.001			<0.005		<0.0001								<20	<50		
GW031856	10-Jul-07	15.51	16.15	7.9	1080	13.5		1180					440	20	94.8	48	34	162	3		<0.001				<0.0001		<0.005	0.008		0.0005	0.0005			2.29		0.00005								10	25		
GW031856	22-Apr-08	-0.64		7.4	1090	19.8		1060					480	18	106	50	33	145	3.6		0.001				<0.00005		<0.001	0.008		0.003	0.0004			0.048		<0.0001								<0.025	<0.1		
GW031856	29-Oct-08	-0.64																																													
GW031856	10-Feb-09	17.85	18.49	7.3	1090	26.9		1100					440	19	81	51	30	150	2.8		0.002				<0.00005		0.003	0.009		0.002	0.0006			0.26		<0.0001								<0.025	<0.025		
GW031856	17-Jun-09	-0.64		7.4	1170	20.1		1110	704	<1	<1	453	453	15	92	51	33	149	3		0.001		0.156	<0.001	<0.0001	<0.001	<0.001	0.004	0.001	<0.001	<0.001		<0.01	0.037	0.06	<0.0001	<0.01				12	11.8	0.52				
GW031856	11-Sep-09	15.64	16.28																																												
GW031856		-0.64																																													
GW031856		-0.64																																													
GW031856		-0.64																																													
GW031856		-0.64																																													
GW031856		-0.64																																													
GW031856	12-Mar-24	11.64	12.28	7.53	1116	24.5	7.5	1140	741	<1	<1	475	475	15	107	42	30	140	3	<0.01	0.002	<0.05	0.103	<0.001	0.0008	<0.001	0.001	<0.001	0.009	<0.001	0.002	<0.01	0.01	0.632	<0.05	<0.0001	0.05	<0.01	0.35	0.35	12.8	10.7	8.87				
GW031856	20-Jun-24	13.76	14.4	7.47	1372	15.4																																									
GW031856	24-Sep-24	17.05	17.69	6.89	1737	19.5	7.39	1140	741	<1	<1	472	472	21	114	67	39	167	3	<0.01	0.001	<0.05	0.152	<0.001	<0.0001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.01	0.01	0.014	<0.05	<0.0001	<0.01	<0.01	0.74	0.74							
GW031856	27-Mar-25	12.62	13.26	7.11	1015	21.3																																									
GW031856	**3-Jul-25**	11.44	12.08	7.74	1066	12.6																																									
GW031856	9-Sep-25	11.84	12.48	7.39	1211	17.8	8.12	1060	689	<1	<1	467	467	21	123	57	38	166	3	<0.01	<0.001	<0.05	0.119	<0.001	<0.0001	<0.001	<0.001	0.002	0.017	<0.001	<0.001	<0.01	<0.01	0.132	<0.05	<0.0001	<0.01	<0.01	0.27	0.27	13.2	13.3	0.12				
GW031856	18-Dec-25	11.56	12.2	7.6	990	29.2																																									
GW031856																																															
GW031856																																															
GW031856		-0.64																																													
Tarrawonga Station																																															
GW052266	2-Jun-06	7.67	8.1	7.9				1360					488	65	134	17	13	301	5		<0.001																										
GW052266	11-Jan-07	8.94	9.37	7.58				1950					457	126	362	45	29	389	8		<0.001				<0.0001		<0.005	<0.001		<0.001	<0.001			0.02		<0.0001											
GW052266	10-Jul-07	7.92	8.35	8.01	1330	13.3		1480					435	79	170	23	14	315	6		<0.001				<0.0001		<0.005	<0.001		<0.001	<0.001			0.01		<0.0001								<20	250		
GW052266	18-Jul-07	7.97	8.4																																												
GW052266	7-Aug-07	7.94	8.37																																												
GW052266	22-Aug-07	7.95	8.38																																												
GW052266	5-Sep-07	8.02	8.45																																												
GW052266	24-Sep-07	7.92	8.35																																												
GW052266	11-Oct-07	7.9	8.33																																												
GW052266	26-Nov-07	8	8.43																																												
GW052266	29-Jan-08	8.01	8.44																																												
GW052266	4-Mar-08	8.04	8.47																																												
GW052266	4-Apr-08	8	8.43																																												
GW052266	22-Apr-08	8.04	8.47	7.2	1230	20.6		1250					465	19	131	94	48	110	4.5		<0.001				<0.00005		<0.001	<0.001		0.006	0.0002			<0.005		<0.0001								<0.025	<0.1		
GW052266	21-Aug-08	5.86	6.29																																												
GW052266	29-Oct-08			8.7	1600	28.4		1600					450	93	220	19	17	270	6.5		<0.001				<0.00005		0.002	0.001		<0.001	0.0003			0.013		0.0006								<0.025	<0.100		
GW052266	28-Aug-09	9.7	10.13																																												
GW052266	14-Dec-09	11.3	11.35	7.4	922	23.3	7.51	838		<1	<1	252	252	31.6	64.1	55	16	84	<1	<0.01	0.003						<0.001	0.003	0.006	0.003	<0.001			0.018	<0.05	<0.0001		<0.01	6.09	6.09	7.51	7.72	1.36				
GW052266	25-Feb-10	10.44	10.49																																												
GW052266	11-May-10	10.43	10.48	8.23	954	18.6		813	446	<1	<1	241	241	34	68.3	54	16	80	<1		0.002		0.078	<0.001	<0.0001	<0.001	<0.001	0.002	0.017	0.004	0.002		0.01	0.024	0.54	<0.0001	0.05				7.46	7.52	0.42				
GW052266	16-Aug-10	9.71	10.21	7.4	860	18.7																																									
GW052266	9-Nov-10	10.53	10.58	6.98	817	24.1																																									
GW052266	10-Mar-11	10.51	11.01	7.04	786	23.5	7	640		<1	<1	262	262	34	72	53	17	94	1	0.15	0.004						<0.001	0.024	0.034	0.001	0.002			0.103	1.28	<0.0001		0.34	4.32	4.66	7.98	8.2	1.34				
GW052266	6-Jun-11	10.19	10.24	7.05	663	20.2																																									
GW052266	6-Sep-11	10.51	10.56	6.94	714	20.2	7.48	823	464	<1	<1	260	260	38	71	57	16	90	<1	0.96	0.003		0.106	<0.001	<0.0001	<0.001	0.002	0.009	0.085	0.008	0.002		0.02	0.061	2.63	<0.0001	0.14	<0.01	6.35	6.35	7.99	8.08	0.53				
GW052266	7-Dec-11	10.55	10.60	6.95	705	20.6																																									
GW052266	13-Mar-12	9.18	9.23	7.04	784	21.6	7.54	821	498	<1	<1	267	267	37	68	57	17	99	<1	0.03	0.002		0.086	<0.001	<0.0001	<0.001	<0.001	0.113	0.005	0.012	0.003		0.02	0.15	0.1	<0.0001	<0.01	<0.01	5.92	5.92	8.44	8.55	0.65				
GW052266	13-Jun-12	8.38	8.43	7.05	837	20.4																																									
GW052266	4-Sep-12	7.91	7.96	7.41	780	22.4	7.56	802	562	<1	<1	260	260	32	76	50	17	93	<1	0.04	0.003		0.078	<0.001	<0.0001	<0.001	<0.001	0.018	0.03	<0.001	0.002		0.01	0.068	0.92	<0.0001	0.07	0.01	5.53	5.54	8	7.94	0.42				
GW052266	27-Nov-12	8.00	8.05	7.28	750	22																																									
GW052266	20-Mar-13	9.24	9.29	7.18	740	21.4	7.13	798	326	<1	<1	244	244	28	80	54	17	89	<1	0.02	0.004		0.072	<0.001	<0.0001	<0.001	<0.001	0.034	0.007	0.001	0.002		0.01	0.176	0.16	<0.0001	0.02	<0.01	5.9	5.9	7.71	7.97	1.58				
GW052266	11-Jul-13	7.79	7.84	7.25	822	18.1																																									
GW052266	5-Sep-13	8.29	8.34	7.09	590	22.4	7.62	782	493	<1	<1	238	238	35	73	48	16	95	<1	1.02	0.002	<0.001	<0.05	0.091	<0.0001	0.002	0.004	0.324	0.036	0.009	0.006	<0.01	0.02	0.19	1.72	<0.0001	<0.01				7.54	7.84	1.94				
GW052266	22-Nov-13	7.84	7.89	7.2	670	21.8																																									
GW052266	24-Feb-14	7.74	7.79	7	727	21.2	7.48	737	514	<1	<1	203	203	33	66	42	14	83	<1	0.2	0.002	<0.001	<0.05	0.072	<0.0001	<0.001	0.001	0.112	0.03	0.003	0.007	<0.01	0.01	0.152	0.86	<0.0001	0.05				6.6	6.86	1.87				
GW052266	27-May-14	7.68	7.73	7.2	692	20.6																																									
GW052266	9-Sep-14	7.73	7.78	7.4	684	20.6	7.83	693		<1	<1	222	222	34	66	34	12	82	<1	0.22	0.0001						<0.001	0.007	0.318	0.003	<0.001			0.048	3.63	<0.0001		<0.01	1.75	1.75	7.01	6.25	4.83				
GW052266	20-Nov-14	7.77	7.82	7.2	748	21.5																																									
GW052266	26-Feb-15	7.51	7.56	7.2	752	21.6	7.13	800	430	<1	<1	168	168	81	62	47	15	89	1	0.44	0.006	<0.05	0.086	<0.001	<0.0001	0.001	0.001	0.012	0.141	0.008	0.002	<0.01	0.03	0.214	22.9	<0.0001	0.54	0.74	5.12	5.86	9.56	7.48	14.2				

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
GW052266	26-May-15	7.75	7.8	7.3	713	20.2																																									
GW052266	27-Aug-15	7.76	7.81	7.2	707	19.7	7.61	712	380	<1	<1	218	218	36	48	40	15	85	2	0.06	<0.001	<0.05	0.049	<0.001	<0.0001	<0.001	<0.001	0.006	0.273	0.002	<0.001	<0.01	<0.01	0.093	16	<0.0001	0.19	0.03	0.46	0.49	6.46	6.98	3.85				
GW052266	4-Dec-15	7.83	7.88	7.1	734	20.5																																									
GW052266	24-Feb-16	7.86	7.91	7	752	21.7	7.5	508	508	<1	<1	219	219	37	56	52	15	90	<1	0.14	0.007	<0.05	0.084	<0.001	<0.0001	<0.001	<0.001	0.008	0.096	<0.001	<0.001	<0.01	0.03	0.067	30.6	<0.0001	0.1	<0.01	6.21	6.21	7.74	7.74	3.82				
GW052266	23-May-16	7.91	7.96	7	746	20.6																																									
GW052266	6-Sep-16	7.94	7.99	7.1	712	21.5	7.51	719		<1	<1	224	224		66	43	14	80	<1	0.12	0.001						<0.001	0.002	0.03	<0.001	<0.001			0.026	0.34	<0.0001		<0.01	3.05	3.05	7	6.78	1.65				
GW052266	29-Nov-16	7.79	7.84	7.3	752	21.3																																									
GW052266	23-Mar-17	7.67	7.72	7.3	780	21.5	7.81	780	490	<1	<1	246	246	29	67	47	17	90	<1	0.07	0.002	<0.05	0.071	<0.001	<0.0001	<0.001	<0.001	0.013	0.03	<0.001	<0.001	<0.01	0.01	0.05	0.39	<0.0001	0.02	<0.01	5.97	5.97	7.41	7.66	1.66				
GW052266	21-Jun-17	7.81	7.86	7.3	776	19.9																																									
GW052266	13-Sep-17	7.81	7.86	6.9	793	21	7.72	779	404	<1	<1	264	264	35	60	58	18	93	<1	0.61	0.001	<0.05	0.067	<0.001	<0.0001	<0.001	<0.001	0.002	0.176	0.001	<0.001	<0.01	0.01	0.029	2.56	<0.0001	0.04	<0.01	6.17	6.17	7.7	8.42	4.5				
GW052266	13-Dec-17	7.88	7.93	7.1	815	22.3																																									
GW052266	13-Sep-18	8.32	8.37	7	770	21.9	7.54	795	442	<1	<1	233	233	34	65	50	15	81	<1	0.14	0.004	<0.05	0.067	<0.001	<0.0001	<0.001	<0.001	0.002	0.055	0.001	<0.001	<0.01	0.01	0.019	0.49	<0.0001	0.03	<0.01	6.71	6.71	7.2	7.25	0.39				
GW052266	5-Dec-18	8.51	8.56	7	818	21.8																																									
GW052266	14-Mar-19	8.6	8.65	7.1	855	21.6	7.46	824	581	<1	<1	285	285	31	64	53	17	95	<1	0.18	0.003	<0.05	0.094	<0.001	<0.0001	<0.001	<0.001	0.002	0.284	0.002	<0.001	<0.01	0.02	0.047	2.92	<0.0001	0.03	<0.01	6.68	6.68	8.14	8.18	0.19			<20	<100
GW052266	19-Jun-19	8.66	8.71	7	780	19.8																																									
GW052266	11-Sep-19	8.7	8.75	6.9	810	21	7.6	814	478	<1	<1	227	227	33	62	61	17	89	<1	0.39	0.002	<0.05	0.075	<0.001	<0.0001	<0.001	0.002	<0.001	0.168	<0.001	<0.001	<0.01	0.01	0.016	1.69	<0.0001		<0.01	6.85	6.85	7.47	8.31	5.38	<20	<50	<20	<100
GW052266	5-Dec-19	8.7	8.75	7.1	840	21.8																																									
GW052266	17-Mar-20	8.67	8.72																																												
GW052266	11-Jun-20	8.56	8.61	7.1	795	21.1																																									
GW052266	23-Sep-20	8.36	8.41	7.2	780	19	7.73	751	527	<1	<1	263	263	34	60	57	17	91	<1	0.1	0.002	<0.05	0.078	<0.001	<0.0001	<0.001	<0.001	<0.001	0.056	<0.001	<0.001	<0.01	0.01	0.02	0.79	<0.0001	<0.01	<0.01	7.32	7.32	7.66	8.2	3.45	<20	<50	<20	<100
GW052266	8-Dec-20	8.46	8.51	7.1	795	18.7																																									
GW052266	15-Mar-21	8.33	8.38	6.99	808	20.3	7.14	1120	728	<1	<1	497	497	22	114	51	36	161	3	<0.01	0.003	<0.05	0.151	<0.001	<0.0001	<0.001	0.003	0.004	0.002	<0.001	<0.001	<0.01	0.01	0.104	0.73	<0.0001	<0.01	<0.01	0.24	0.24	13.6	12.6	3.88				
GW052266	21-Jun-21	8.22	8.27	7.08	802	18.3																																									
GW052266	2-Sep-21	8.16	8.21	6.28	796	17.1	7.19	790	514	<1	<1	283	283	33	65	57	17	90	<1	0.08	0.001	<0.05	0.141	<0.001	<0.0001	<0.001	0.006	0.007	0.03	0.002	0.004	<0.01	0.01	0.168	1.74	<0.001	<0.001	<0.01	0.23	0.23				<20	<50	<20	<100
GW052266	19-Dec-21	7.97	8.02	7	818	19																																									
GW052266	21-Mar-22	7.69	7.74	7.03	872	22.4	7.14	799	519	<1	<1	247	247	33	70	56	17	88	<1	<0.01	<0.001	<0.05	0.139	<0.001	<0.0001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.01	<0.01	0.009	<0.05	<0.0001	<0.01	<0.01	0.23	0.23	7.6	8.02	2.72	<20	<50	<20	<100
GW052266	6-Jun-22	7.5	7.55	6.85	814	17.5																																									
GW052266	28-Sep-22	7.15	7.2	8.82	785	21.7	7.17	737	479	<1	<1	245	245	33	70	56	17	86	<1	<0.01	0.002	<0.05	0.07	<0.001	<0.0001	<0.001	<0.001	<0.001	0.028	<0.001	<0.001	<0.01	0.01	<0.005	0.67	<0.0001	0.03	<0.01	8.04	8.04	7.56	7.93	2.44	<20	<50	<20	<100
GW052266	12-Dec-22	6.51	6.56	6.84	778	22.2																																									
GW052266	24-Mar-23	6.12	6.17	6.56	785	24.2	7.32	768	499	<1	<1	253	253	34	70	52	16	83	<1	<0.01	0.002	<0.05	0.067	<0.001	<0.0001	<0.001	<0.001	<0.001	0.028	<0.001	<0.001	<0.01	<0.01	<0.005	0.97	<0.0001	0.05	<0.01	7.64	7.64	7.74	7.52	1.41	<20	<50	<20	<100
GW052266	9-Jun-23	6.05	6.1	7.01	879	17.2																																									
GW052266	28-Sep-23	5.98	6.03	5.9	739	24.3	7.12	779	506	<1	<1	275	275	33	76	57	17	86	<1	<0.01	0.001	<0.05	0.066	<0.001	<0.0001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.01	<0.01	<0.005	<0.05	<0.0001	<0.01	<0.01	7.77	7.77	8.32	7.98	2.09				
GW052266	11-Dec-23	6.05	6.1	6.95	770	22.7																																									
GW052266	12-Mar-24	6.25	6.3	7.23	762	25.8	7.17	788	512																																						
GW052266	20-Jun-24	7.85	7.9	7.69	906	16.9																																									
GW052266	24-Sep-24	6.42	6.47	7.01	713	20.1	7.46	708	460																																						
GW052266	27-Mar-25	12.32	12.37	7.64	699	20.9																																									
GW052266	3-Jul-25	12.03	12.08	7.74	1066	13																																									
GW052266	9-Sep-25	6.35	6.4	7.36	642	22	8.06	594	386	<1	<1	200	200	29	74	35	13	88	<1	<0.01	<0.01	<0.05	0.119	<0.001	<0.0001	<0.001	<0.001	<0.001	0.017	<0.001	<0.001	<0.01	<0.01	<0.0005	<0.05	<0.0001	0.01	<0.01	0.1	0.1	6.69	6.64	0.32				
GW052266	18-Dec-25	6.3	6.35	7.62	536	24.9																																									
GW052266																																															
GW052266																																															
GW052266																																															
GW052266																																															
GW052266																																															
TEMPLEMORE A																																															
Templemore A	18-Jul-07	8.61	9.07																																												
Templemore A	7-Aug-07	11.33	11.79																																												
Templemore A	22-Aug-07	12.08	12.54																																												
Templemore A	5-Sep-07	12.09	12.55																																												
Templemore A	24-Sep-07	12.22	12.68																																												
Templemore A	11-Oct-07	12.08	12.54																																												
Templemore A	26-Nov-07	12.09	12.55																																												
Templemore A	29-Jan-08	12.05	12.51																																												
Templemore A	4-Mar-08	12.07	12.53																																												
Templemore A	4-Apr-08	9.16	9.62																																												
Templemore A	21-Aug-08	8.68	9.14																																												
Templemore A	29-Jan-09	7.84	8.3																																												
Templemore A	17-Jun-09	8.65	9.39	7.7	1640	19.7	0.16	1500	1000	<1	<1	426	426	56	228	165	42	106	1		0.003		0.132	<0.001	<0.0001	<0.001	<0.001	0.021	0.247	0.002	0.002		<0.01	0.02		<0.0001	0.01				16.1	16.3	0.7				
Templemore A	28-Aug-09	8.92	9.4																																												
Templemore A	23-Dec-09	10.1	10.58	7.2	1473	24	7.54	1400		<1	<1	241	241	79	246	72	41	125	1	<0.01	0.002						<0.001	0.007	0.013	0.001	<0.001			0.025	<0.05	<0.0001		0.07	3.25	3.32	13.6	12.4	4.61				
Templemore A	25-Feb-10	9.16	9.64																																												
Templemore A	11-May-10	9.12	9.6	7.92	1083	21.2		1600	906	<1	<1	376	376	68.3	241	152	38	105	3		0.004		0.21	<0.001	0.0001	<0.001	<0.001	0.011	1.9	0.006	<0.001		0.01	0.019	0.11	<0.0001	3.1				15.7	15.4	1.13				
Templemore A	30-Aug-10	9.19	9.67	7.77	1590	22.1																																									
Templemore A	9-Nov-10	9.24	9.72	7.67	1485	23.7																																									
Templemore A	14-Mar-11	9.44	9.92	7.35	1486	24.8	7.56	1420		<1	<1	402	402	49	297	175	41	120	4	0.02	0.003						<0.001	0.011	3.31	0.005	<0.001			0.079	0.76	<0.0001		<0.01	0.09	0.09	17.4	17.4	0.03				
Templemore A	6-Jun-11	9.36	9.84	7.45	1392	20.2																																									
Templemore A	6-Sep-11	9.5	9.98	7.61	1395	21.8	8.04	1670	790	<1	<1	405	405	62	285	169	41	120	3	0.08	0.004		0.266	<0.001	<0.0001	<0.001	<0.001	0.004	1.81	0.004	<0.001		<0.01	0.033	0.1	<0.0001	1.37	0.12	0.46	0.58	17.4	17.1	0.9				
Templemore A	9-Dec-11	No access to well - paddock flooded																																													
Templemore A	13-Mar-12	2.7	3.18	7.62	960	22.9	7.79	988	578	<1	<1	222	222	59	103	92	25	74	8	0.1	0.003		0.093	<0.001	<0.0001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001		<0.01	0.023	0.11	<0.0001	0.04	0.01	19.7	19.7	9.98	10.1	0.6				
Templemore A	13-Jun-12	3.28	3.76	7.31	826	20.2																																									
Templemore A	6-Sep-12	3.59	4.07	7.32	816	20.1	7.67	820	500	<1	<1	203	203	66	103	80	22	54	4	0.05	0.002		0.071	<0.001	<0.0001	<0.001	<0.001	0.017	0.008	<0.001	<0.001		<0.01	0.026	0.09	<0.0001	<0.01	<0.01	2.79	2.79	8.34	8.25	0.48				
Templemore A	27-Nov-12	3.85	4.33	7.42	812	21.1																																									
Templemore A	21-Mar-13	4.31	4.79	7.67	943	21.8	7.75	1020	614	<1	<1	242	242	74	116	97	24	60	9	1.68	0.003		0.114	<0.001	0.0001	0.001	0.001	0.142	0.501	0.005	0.01		<0.01	0.279	2.56	<0.0001	2.75	3.32	0.18	3.5	9.65	9.66	0.06				
Templemore A	11-Jul-13	5.34	5.82	7.68	1162	19.2																																									
Templemore A	5-Sep-13	4.29	4.77	7.57	1150	20.4	7.96	1240	765	<1	<1	284	284	96	175	119	30	93	5	0.07	0.003	<0.001	<0.05	0.119	<0.0001	<0.001	<0.001	0.068	0.688	0.003	0.003	<0.01	<0.01	0.103	0.12	<0.0001	0.07				12.6	12.6	0.1				
Templemore A	22-Nov-13	7.5	7.98	7.7	1189	19.8																																									
Templemore A	20-Feb-14	4.41	4.89	7.7	1110	20.7	7.71	1150	669	<1	<1	272	272	84	150	104	27	80	6	0.23	0.004	<0.001	<0.05	0.1	<0.0001	<0.001	0.001	0.105	0.432	0.005	0.012	<0.01	<0.01	0.204	0.75	<0.0001	4.83				11.4	11	1.63				
Templemore A	27-May-14	4.57	5.05	7.6	1281	20																																									
Templemore A	9-Sep-14	4.31	4.79	7.8	1150	19.3	7.98	1190		<1	<1	272	272	98	164	105	26	78	2	0.02	0.004						<0.001	0.012	0.011	<0.001	<0.001			0.031	0.86	<0.0001		<0.01	2.6	2.6	12	10.8	5.3				
Templemore A	20-Nov-14	4.78	5.26	7.9	1117	21.2																																									
Templemore A	26-Feb-15	5.27	5.75	7.9	1100	23.7	7.69	1210	674	<1	<1	242	242	105	157	109	27	84	4	0.2	0.003	<0.05	0.079	<0.001	<0.0001	<0.001	<0.001	0.015	0.1	0.002	<0.001	<0.01	<0.01	0.064	0.22	<0.0001	0.73	0.14	0.3	0.44	12.9	11.4	13.7				
Templemore A	26-May-15	5.59	6.07	7.9	1125	19.4																																									
Templemore A	27-Aug-15	5.64	6.12	7.9	1180	18.4	8.03	1190	755	<1	<1	264	264	82	134	113	27	87	3	0.04	0.002	<0.05	0.077	<0.001	<0.0001	<0.001	<0.001	0.019	0.014	<0.001	<0.001	<0.01	<0.01	0.034	0.05	<0.0001	0.04	<0.01	0.93	0.93	10.8	11.7	4.28				
Templemore A	4-Dec-15	5.77	6.25	7.8	1192	22.7																																									
Templemore A	24-Feb-16	6.08	6.56	7.8	1234	22.5	8.09	1300	668	<1	<1	340	340	88	176	147	30	102	4	0.03	0.004	<0.05	0.105	<0.001	<0.0001	<0.001	<0.001	0.012	0.415	0.001	0.001	<0.01	<0.01	0.037	0.11	<0.0001	0.5	0.44	<0.01	0.27	13.6	14.3	2.71				
Templemore A	23-May-16	6.31	6.79	7.9	1302	20.7																																									
Templemore A	6-Sep-16	6.43	6.91	7.9	1280	23.8	7.89	1300		<1	<1	338	338		183	134	26	89	4	0.04	0.003						<0.001	0.023	0.404	0.001	0.002			0.26	0.26	<0.0001		<.01	2.14	2.14	13.5	12.8	2.64				
Templemore A	29-Nov-16	3.27	3.75	7.5	810	20.5																																									
Templemore A	23-Mar-17	4.31	4.79	7.4	824	22.1	7.99	816	530	<1	<1	189	189	53	112	65	20	65	4	0.31	0.002	<0.05	0.07	<0.001	<0.0001	<0.001	<0.001	0.026	0.086	0.001	0.001	<0.01	<0.01	0.097	0.35	<0.0001	0.56	0.1	3.14	3.24	8.04	7.82	1.39				
Templemore A	21-Jun-17	4.89	5.37	7.6	943	18.7																																									
Templemore A	13-Sep-17	5.11	5.59	7.5	1050	20.3	8.08	1030	575	<1	<1	259	259	76	143	110	24	75	4	0.1	0.003	<0.05	0.076	<0.001	0.0002	<0.001	<0.001	0.02	0.018	<0.001	<0.001	<0.01	<0.01	0.07	0.1	<0.0001	0.05	<0.01	1.79	1.79	10.8	10.8	0.18				
Templemore A	13-Dec-17	5.22	5.7	7.7	1091	210																																									
Templemore A	13-Sep-18	6.39	6.87	7.7	1250	20.2	7.9	1280	762	<1	<1	287	287	84	201	114	26	86	2	0.03	0.003	<0.05	0.087	<0.001	<0.0001	<0.001	<0.001	0.025	0.078	<0.001	0.001	<0.01	<0.01	0.024	0.17	<0.0001	0.05	<0.01	1.54	1.54	13.2	11.6	6.19				
Templemore A	5-Dec-18	6.66	7.14	7.7	1278	21.2																																									
Templemore A	14-Mar-19	7.11	7.59	7.8	1230	21.3	7.77	1200	850	<1	<1	276	276	82	177	112	30	83	2	0.02	0.003	<0.05	0.096	<0.001	<0.0001	<0.001	<0.001	0.006	0.018	<0.001	<0.001	<0.01	0.01	0.025	0.11	<0.0001	0.12	0.08	3.49	3.57	12.2	11.7	2.07			<20	<100
Templemore A	19-Jun-19	7.31	7.79	7.5	1240	19.5																																									
Templemore A	11-Sep-19	7.53	8.01	7.6	1290	19.6	8.06	1310	778	<1	<1	271	271	107	206	142	34	94	2	0.02	0.002	<0.05	0.092	<0.001	<0.0001	<0.001	<0.001	0.006	0.006	<0.001	<0.001	<0.01	<0.01	0.158	0.05	<0.0001		<0.01	2.19	2.19	13.4	14	2.08	<20	<50	<20	<100
Templemore A	5-Dec-19	7.77	8.25	7.7	1360	20.7																																									
Templemore A	18-Mar-20	6.1	6.58	7.5	1480	21.6	7.9	1310	823	<1	<1	257	257	91	198	135	31	94	2	0.02	0.003	<0.05	0.061	<0.001	<0.0001	<0.001	<0.001	0.005	0.049	<0.001	<0.001	<0.01	<0.01	0.067	0.07	<0.0001	0.03	<0.01	6.39	6.39	12.6	13.4	2.98	<20	<50	<20	<100
Templemore A	11-Jun-20	3.62	4.1	7.6	785	19.6																																									
Templemore A	23-Sep-20	4.65	5.13	7.8	950	17.8	7.56	930	6.18	<1	<1	233	233	67	125	81	20	69	3	0.07	0.002	<0.05	0.076	<0.001	<0.0001	<0.001	<0.001	0.003	0.006	<0.001	<0.001	<0.01	<0.01	0.072	0.09	<0.0001	<0.01	<0.01	5.19	5.19	9.58	8.77	4.42	<20	<50	<20	<100
Templemore A	8-Dec-20	5.3	5.78	7.9	1040	17.9																																									
Templemore A	4-Mar-21	5.67	6.15	7.42	1175	22.5	7.55	1180	767	<1	<1	281	281	94	194	121	32	85	2	0.03	0.002	<0.05	0.102	<0.001	<0.0001	<0.001	<0.001	0.006	0.025	<0.001	<0.001	<0.01	0.01	0.149	<0.05	<0.0001	<0.01	0.02	9.49	9.51	13	12.4	2.45	<20	<50	<20	<100
Templemore A	21-Jun-21	5.93	6.41	7.36	1352	17.6																																									
Templemore A	2-Sep-01	5.07	5.55	7.01	1398	20.3	7.94	1380	897	<1	<1	289	289	89	203	141	34	96	2	0.04	0.003	<0.05	0.098	<0.001	<0.001	<0.001	<0.001	0.002	0.014	0.001	<0.001	<0.01	0.01	0.082	<0.05	<0.0001	0.02		15	15				<20	<50	<20	<100
Templemore A	29-Dec-21	2.21	2.69	7.41	1387	20.4																																									
Templemore A	21-Mar-22	2.6	3.08	7.23	822	21.6	7.34	754	490	<1	<1	253	253	42	64	68	19	57	5	0.03	0.003	<0.05	0.06	<0.001	<0.0001	<0.001	<0.001	0.006	0.0015	<0.001	<0.001	<0.01	<0.01	0.062	<0.05	<0.0001	0.03	<0.01	2.02	2.02	7.73	7.56	1.11	<20	<50	<20	<100
Templemore A	6-Jun-22	3.23	3.71	6.94	822	18.1																																									
Templemore A	28-Sep-22	1.65	2.13	7.17	1058	19.6	7.38	967	628	<1	<1	250	250	75	155	101	28	69	6	0.04	0.002	<0.05	0.079	<0.001	<0.0001	<0.001	<0.001	<0.001	0.004	0.001	<0.001	<0.01	<0.01	0.036	0.11	<0.0001	<0.01	0.01	4.28	4.29	10.9	10.5	2	<20	<50	<20	<100
Templemore A	12-Dec-22	0.84	1.32	7.09	1009	22.6																																									
Templemore A	24-Mar-23	2.51	2.99	6.58	809	21.2	7.3	793	515	<1	<1	239	239	46	90	72	19	52	13	<0.01	0.002	0.07	0.083	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.005	<0.05	<0.0001	<0.01	<0.01	0.51	0.51	8.27	7.75	3.25	<20	<50	<20	<100
Templemore A	9-Jun-23	7.82	8.3	6.82	1009	18.5																																									
Templemore A	28-Sep-23	8.85	9.33	6.78	1750	25.4	7.27	1750	1140	<1	<1	422	422	104	41	206	2	<0.01	0.002	<0.05	0.078	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	0.008	<0.001	<0.001	<0.01	0.01	0.007	<0.05	<0.0001	0.01	<0.01	2.45	2.45	19.5	17.6	5.12				
Templemore A	11-Dec-23	8.42	8.9	6.91	1066	21.8																																									
Templemore A	12-Mar-24	5.56	6.04	7.1	1088	25.6	7.11	1200	780	<1	<1	229	229	123	212	113	31	70	4	<0.01	0.002	<0.05	0.095	<0.001	<0.0001	<0.001	0.008	<0.001	0.006	<0.001	<0.001	<0.01	<0.01	0.013	0.05	<0.0001	0.02	<0.01	3.18	3.18	13.1	11.3	7.28				
Templemore A	20-Jun-24	4.29	4.77	7.17	1438	14.9																																									
Templemore A	24-Sep-24	4.95	5.43	7.28	1252	21.1	7.26	1280	832	<1	<1	307	307	89	215	148	38	98	<1	<0.01	0.003	<0.05	0.116	<0.001	<0.0001	<0.001	<0.001	<0.001	0.006	<0.001	<0.001	<0.01	0.01	0.013	<0.05	<0.0001	<0.01	<0.01	1.3	1.3							
Templemore A	27-Mar-25	4.92	5.4	7.08	1223	20.2																																									

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters: pH - Field	Field Parameters: EC - Field - µs/cm	Field Parameters: Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions: Hydroxide Alkalinity as CaCO3 - mg/L	Major Anions: Carbonate Alkalinity as CaCO3 - mg/L	Major Anions: Bicarbonate Alkalinity as CaCO3 - mg/L	Major Anions: Alkalinity - mg/L	Major Anions: Sulfate (SO4) - mg/L	Major Anions: Chloride (Cl) - mg/L	Major Cations: Calcium (Ca) - mg/L	Major Cations: Magnesium (Mg) - mg/L	Major Cations: Sodium (Na) - mg/L	Major Cations: Potassium (K) - mg/L
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**			
Templemore A	2-Jul-25	4.85	5.33	7.42	1345	17													
Templemore A	9-Sep-25	5.46	5.94	7.47	1779	19.1	7.94	1530	994	<1	<1	389	389	143	285	99	41	225	2
Templemore A	18-Dec-25	3.24	3.72	7.12	820	25.6													
Templemore A																			
Templemore A																			
Templemore A																			

Sample Location	Total Metals: Aluminium (Al) - mg/L	Total Metals: Arsenic (As) - mg/L	Total Metals: Boron (B) - mg/L	Total Metals: Barium (Ba) - mg/L	Total Metals: Beryllium (Be) - mg/L	Total Metals: Cadmium (Cd) - mg/L	Total Metals: Cobalt (Co) - mg/L	Total Metals: Chromium (Cr) - mg/L	Total Metals: Copper (Cu) - mg/L	Total Metals: Manganese (Mn) - mg/L	Total Metals: Nickel (Ni) - mg/L	Total Metals: Lead (Pb) - mg/L	Total Metals: Selenium (Se) - mg/L	Total Metals: Vanadium (V) - mg/L	Total Metals: Zinc (Zn) - mg/L	Total Metals: Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water	**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
Templemore A																												
Templemore A	<0.01	0.002	<0.05	0.071	<0.001	<0.0001	<0.001	<0.001	0.002	0.044	<0.001	<0.001	<0.01	0.01	0.021	<0.05	<0.001	0.04	<0.01	1.63	1.63	18.8	18.2	1.72				
Templemore A																												
Templemore A																												
Templemore A																												
Templemore A																												

				Field Parameters								Major Anions					Major Cations								Total Metals																						
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									4000					1000		1000				5	0.5				0.01	1	1	1		1	0.1	0.02		20		0.002			400								
TEMPLEMORE B																																															
Templemore B	18-Jul-07	9.89	9.89																																												
Templemore B	7-Aug-07	8.14	8.14																																												
Templemore B	22-Aug-07	8.31	8.31																																												
Templemore B	5-Sep-07	8.17	8.17																																												
Templemore B	24-Sep-07	8.05	8.05																																												
Templemore B	11-Oct-07	8.09	8.09																																												
Templemore B	26-Nov-07	7.9	7.9																																												
Templemore B	29-Jan-08	8.13	8.13																																												
Templemore B	4-Mar-08	8.44	8.44																																												
Templemore B	4-Apr-08	8.42	8.42																																												
Templemore B	21-Aug-08	10.55	10.55																																												
Templemore B	29-Jan-09	15.5	15.5																																												
Templemore B	17-Jun-09	9.49	9.63	7.3	1810	19.5		1700	1080	<1	<1	419	419	106	240	118	52	175	2		0.002		0.145	<0.001	<0.0001	<0.001	<0.001	0.055	0.008	<0.001	<0.001		0.01	0.052	<0.05	<0.0001	<0.01				17.4	17.9	1.46				
Templemore B	28-Aug-09	12.69	12.83																																												
Templemore B	23-Dec-09	15.84	15.98	6.75	1491	24.4	7.44	1420		<1	<1	291	291	134	196	31	31	221	2	<0.01	0.003						<0.001	0.022	0.003	0.002	<0.001			0.068	<0.05	<0.0001		<0.01	0.74	0.74	14.1	13.8	1.29				
Templemore B	25-Feb-10	9.36	9.5																																												
Templemore B	11-May-10	10.52	10.66	8.01	1722	22.2		1540	854	<1	<1	328	328	129	204	85	30	194	2		0.002		0.059	<0.001	<0.0001	<0.001	<0.001	0.007	0.024	<0.001	<0.001		0.01	0.02	0.11	<0.0001	0.02				15	15.1	0.48				
Templemore B	30-Aug-10	17.65	17.79	7.23	1532	23.8																																									
Templemore B	9-Nov-10	9.94	10.08	7.19	1405	24.8																																									
Templemore B	14-Mar-11	17.11	17.25	7.21	1460	24.7	7.28	1400		<1	<1	339	339	136	264	97	37	200	2	0.28	0.002						<0.001	0.055	0.034	0.002	0.003			0.185	0.43	<0.0001		<0.01	2.85	2.85	17	16.6	1.3				
Templemore B	6-Jun-11	10.42	10.56	7.3	1370	21.5																																									
Templemore B	8-Sep-11	13.56	13.7	7.12	1387	20.8	7.54	1630	982	<1	<1	325	325	137	254	62	38	202	2	0.03	0.003		0.076	<0.001	<0.0001	<0.001	<0.001	0.015	0.005	<0.001	<0.001		0.01	0.019	<0.05	<0.0001	0.03	<0.01	0.73	0.73	16.5	15.1	4.62				
Templemore B	7-Dec-11	10.53	10.67	7.21	1360	21																																									
Templemore B	13-Mar-12	9.58	9.72	7.28	1680	23	7.7	1790	1040	<1	<1	338	338	142	307	116	42	228	2	0.07	0.002		0.09	<0.001	<0.0001	<0.001	<0.001	0.013	0.004	<0.001	<0.001		0.02	0.036	0.1	<0.0001	0.11	<0.01	3.37	3.37	18.4	19.2	2.24				
Templemore B	13-Jun-12	10.51	10.65	7.34	1704	20.8																																									
Templemore B	4-Sep-12	8.28	8.42	7.3	1770	21.4	7.63	1920	1200	<1	<1	364	364	181	326	110	46	248	2	0.05	0.002		0.099	<0.001	<0.0001	<0.001	<0.001	0.01	0.005	<0.001	<0.001		0.01	0.072	0.1	<0.0001	<0.01	<0.01	7.25	7.25	20.2	20.1	0.31				
Templemore B	27-Nov-12	7.65	7.79	7.37	1611	21.8																																									
Templemore B	20-Mar-13	12.36	12.5	7.29	1570	22.4	7.51	1700	886	<1	<1	335	335	137	255	94	36	235	2	0.04	0.004		0.069	<0.001	<0.0001	<0.001	<0.001	0.019	0.012	<0.001	0.001		0.01	0.064	0.09	<0.0001	0.03	<0.01	4.44	4.44	16.7	17.9	3.41				
Templemore B	11-Jul-13	6.08	6.22	7.22	1523	21.7																																									
Templemore B	5-Sep-13	6.1	6.24	7.24	1470	22.3	7.79	1620	988	<1	<1	304	304	158	242	78	32	230	2	0.28	0.003	<0.001	0.06	0.076	<0.0001	<0.001	<0.001	0.046	0.035	<0.001	0.002	<0.01	0.02	0.148	0.3	<0.0001	0.03				16.2	16.6	1.18				
Templemore B	22-Nov-13	7.89	8.03	7.4	1483	20.7																																									
Templemore B	20-Feb-14	8.31	8.45	7.5	1400	21.6	7.47	1470	829	<1	<1	293	293	142	199	69	29	204	1	0.1	0.004	<0.001	0.06	0.061	<0.0001	<0.001	<0.001	0.045	0.022	0.002	0.005	<0.01	0.02	0.129	0.38	<0.0001	0.02				14.4	14.7	1.03				
Templemore B	27-May-14	10.51	10.65	7.4	1566	19.7																																									
Templemore B	9-Sep-14	6.38	6.52	7.4	1390	21.5	7.7	1480		<1	<1	325	325	141	195	63	25	192	1	0.05	0.004						<0.001	0.007	0.004	<0.001	<0.001			0.028	0.07	0.0001		<0.01	2.3	2.3	14.9	13.6	4.76				
Templemore B	20-Nov-14	6.96	7.1	7.4	1523	22.3																																									
Templemore B	26-Feb-15	7.58	7.72	7.4	1450	23.6	7.89	1580	955	<1	<1	328	328	144	211	70	30	205	2	0.15	0.003	<0.05	0.064	<0.001	<0.0001	<0.001	<0.001	0.01	0.013	0.002	<0.001	<0.01	0.01	0.078	0.2	<0.0001	0.09	<0.01	2.38	2.38	15.5	14.9	1.9				
Templemore B	26-May-15	8.37	8.51	7.4	1453	20.6																																									
Templemore B	27-Aug-15	8.03	8.17	7.3	1480	19.2	7.73	1520	826	<1	<1	286	286	158	179	74	31	202	1	0.03	0.003	<0.05	0.061	<0.001	<0.0001	<0.001	<0.001	0.006	0.005	<0.001	0.003	<0.01	0.02	0.046	0.07	<0.0001	0.04	<0.01	2.07	2.07	14	15	3.43				
Templemore B	4-Dec-15	10.98	11.12	7.3	1572	22.8																																									
Templemore B	24-Feb-16	10.77	10.91	7.2	1465	23.4	7.77	1510	874	<1	<1	307	307	158	214	82	32	219	1	0.31	0.004	<0.05	0.069	<0.001	<0.0001	<0.001	<0.001	0.007	0.005	<0.001	<0.001	<0.01	0.01	0.046	1.7	<0.0001	0.05	<0.01	0.21	0.21	15.5	16.3	2.56				
Templemore B	23-May-16	7.18	7.32	7.2	1481	21.8																																									
Templemore B	6-Sep-16	13.46	13.6	7.2	1510	23.5	7.58	1560		<1	<1	325	325		240	90	30	196	2	0.25	0.004						<0.001	0.024	0.021	<0.001	0.003			0.153	1.12	<0.0001		<0.01	2.14	2.14	16.1	15.5	1.84				
Templemore B	29-Nov-16	9.27	9.41	7.2	1345	21.3																																									
Templemore B	23-Mar-17	6.91	7.05	7.3	1500	23	8.02	1520	1040	<1	<1	322	322	129	235	71	31	197	1	0.04	0.003	<0.05	0.069	<0.001	<0.0001	<0.001	<0.001	0.014	0.012	<0.001	<0.001	<0.01	0.02	0.035	0.08	<0.0001	0.02	<0.01	2.42	2.42	15.7	14.7	3.48				
Templemore B	21-Jun-17	6.46	6.6	7.4	1613	19.7																																									
Templemore B	13-Sep-17	6.68	6.82	7.6	1600	21.1	8.3	1620	916	<1	<1	360	360	149	245	89	37	213	2	<0.01	0.003	<0.05	0.07	<0.001	<0.0001	<0.001	0.001	0.011	0.009	0.004	<0.001	<0.01	0.01	0.044	0.23	<0.0001	0.04	<0.01	2.31	2.31	17.2	16.8	1.19				
Templemore B	13-Dec-17	6.61	6.75	7.4	1425	22.4																																									
Templemore B	13-Sep-18	7.22	7.36	7.1	1440	22	7.59	1480	777	<1	<1	305	305	135	233	74	27	180	2	0.07	0.003	<0.05	0.058	<0.001	<0.0001	<0.001	<0.001	0.001	0.004	<0.001	<0.001	<0.01	0.02	0.033	0.09	<0.0001	0.05	<0.01	1.89	1.89	15.5	13.8	5.74				
Templemore B	5-Dec-18	10.22	10.36	7.1	1520	21.7																																									
Templemore B	14-Mar-19	7.71	7.85	7.3	1390	22.9	7.58	1410	874	<1	<1	319	319	138	194	66	66	66	66	0.03	0.003	0.05	0.063	<0.001	<0.0001	<0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.01	0.02	0.025	0.11	<0.0001	0.01	<0.01	1.3	1.3	14.7	14.4	0.96			<20	<100
Templemore B	19-Jun-19	7.67	7.81	7.2	1580	20.5																																									
Templemore B	11-Sep-19	9.01	9.15	7.4	1780	21.3	7.84	1820	1010	<1	<1	376	376	121	322	143	65	174	2	<0.01	0.002	<0.05	0.134	<0.001	0.0003	<0.001	0.001	0.02	0.006	0.06	0.003	<0.01	0.02	0.394	1.04	<0.0001		<0.01	1.55	1.55	19.1	20.1	2.52	<20	<50	<20	<100
Templemore B	5-Dec-19	8.21	8.35	7.4	1820	22.1																																									
Templemore B	18-Mar-20	9.66	9.8	7.5	1480	21.6	7.71	1550	856	<1	<1	291	291	142	242	91	32	202	2	0.02	0.003	<0.05	0.061	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	0.02	0.019	<0.05	<0.0001	0.01	<0.01	1.41	1.41	15.6	15.5	0.37	<20	<50	<20	<100
Templemore B	11-Jun-20	9.29	9.43	7.4	1460	20.4																																									
Templemore B	23-Sep-20	8.88	9.02	7.3	1380	19	7.78	1450	878	<1	<1	340	340	132	224	77	26	162	2	0.03	0.002	<0.05	0.06	<0.001	<0.0001	<0.001	<0.001	0.001	0.003	<0.001	0.001	<0.01	0.02	0.022	<0.05	<0.0001	<0.01	<0.01	1.36	1.36	15.9	13.1	9.61	<20	<50	<20	<100
Templemore B	8-Dec-20	11.47	11.61	7.3	1420	19.8																																									
Templemore B	4-Mar-21	9.87	10.01	7.41	1412	23.4	7.41	1400	520	<1	<1	345	345	143	233	84	30	197	2	<0.01	0.003	<0.05	0.059	<0.001	<0.0001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.01	0.02	0.019	<0.05	<0.0001	0.04	<0.01	1.33	1.33	16.4	15.3	3.66	<20	<50	<20	<100
Templemore B	21-Jun-21	9.17	9.31	7.13	1493	18.3																																									
Templemore B	2-Sep-21	8.37	8.51	6.29	1581	21.3	7.36	1580	1030	0.7	<1	362	362	128	238	94	32	200	1	0.02	0.002	<0.05	0.057	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	0.01	0.029	<0.05	<0.0001	<0.01		2.51	2.51						<20	<100
Templemore B	29-Dec-21	10.22	10.36	7.2	1670	21.8																																									
Templemore B	21-Mar-22	10.96	11.1	7.24	1708	22.5	7.37	1530	994	<1	<1	344	344	136	244	91	31	188	2	0.02	0.003	<0.05	0.058	<0.001	<0.0001	<0.001	<0.001	0.001	0.007	<0.001	<0.001	<0.01	0.02	0.02	<0.05	0.0004	0.03	<0.01	2.54	2.54	16.6	15.3	3.97	<20	<50	<20	<100
Templemore B	6-Jun-22	3.57	3.71	6.94	822	18.1																																									
Templemore B	28-Sep-22	8.18	8.32	7.18	1030	21.9	7.34	1500	975	<1	<1	359	359	147	263	95	36	197	2	0.05	0.002	<0.05	0.066	<0.001	<0.0001	<0.001	<0.001	0.006	0.033	<0.001	<0.001	<0.01	0.01	0.033	0.16	<0.0001	<0.01	<0.01	2.34	2.34	17.6	16.3	3.91	<20	<50	<20	<100
Templemore B	12-Dec-22	6.96	7.1	7.19	2135	23.3																																									
Templemore B	24-Mar-23	5.74	5.88	6.63	1889	24.5	7.52	1820	1180	<1	<1	419	419	137	317	112	52	195	2	<0.01	0.002	0.07	0.109	<0.001	<0.0001	<0.001	<0.001	<0.001	0.028	<0.001	<0.001	<0.01	0.01	0.039	<0.05	<0.0001	<0.01	<0.01	3.83	3.83	20.2	18.4	4.57	<20	<50	<20	<100
Templemore B	9-Jun-23	6.85	6.99	7.01	1774	19.6																																									
Templemore B	28-Sep-23	3.92	4.06	6.12	955	25.6	7.06	1060	689	<1	<1	243	243	100	173	107	29	65	6	<0.01	0.002	<0.05	0.088	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	0.007	<0.05	<0.0001	<0.01	<0.01	0.48	0.48	11.8	10.7	4.93				
Templemore B	11-Dec-23	8.62	8.76	7.14	1644	24.7																																									
Templemore B	12-Mar-24	9.84	9.98	7.22	1612	24.5	7.24	1650	1070																																						
Templemore B	20-Jun-24	5.76	5.9	7.01	1966	14.8																																									
Templemore B	24-Sep-24	6.07	6.21	6.87	1737	19.5	7.24	1690	1100																																						
Templemore B	27-Mar-25	6.68	6.82	7.09	1249	21.3																																									
Templemore B	2-Jul-25	6.6	6.74	7.05	1640	19																																									
Templemore B	9-Sep-25	3.59	3.73	7.42	1338	18.7	7.99	1180	767	<1	<1	254	254	104	248	129	36	90	4	<0.01	0.002	<0.05	0.105	<0.001	<0.0001	<0.001	<0.001	0.001	0.009	0.002	<0.001	<0.01	<0.01	0.03	<0.05	<0.0001	0.01	<0.01	3.09	3.09	14.2	13.4	2.96				
Templemore B	18-Dec-25	6.83	6.97	7.11	1352	27.1																																									
Templemore B																																															
Templemore B																																															
Templemore B																																															
Templemore B																																															
REGIONAL BORES																																															
Reg 6																																															
Reg 6	Aug-2015		20.08																																												
Reg 6	Sep-2015		20.13	12.28	2580	19.2	11.6	2270	1170	<1	90	60	150	111	520	14	<1	491	42	<0.01	<0.001	<0.05	0.126		<0.0001		0.006	0.005	<0.001	0.001	<0.001			0.027	<0.05		0.84	<0.01	0.14	0.14	20	23.1	7.29				
Reg 6	Oct-2015		20.16																																												
Reg 6	Nov-2015		20.15																																												
Reg 6	Dec-2015		20.17	8.02	2310	33.9	8.15	2360	1420	<1	<1	234	234	147	532	47	23	358	9	<0.01	<0.001	0.08	0.048		<0.0001		<0.001	<0.001	0.13	0.001	<0.001			0.006	<0.05		0.16	<0.01	0.01	0.01	22.7	20	6.33				
Reg 6	Jan-2016		20.25																																												
Reg 6	Feb-2016		20.31																																												
Reg 6	Mar-2016		20.43	7.95	2336	25.3	8.05	2300	1250	<1	<1	228	228	151	527	49	28	359	10	<0.01	0.001	0.06	0.054		<0.0001		<0.001	<0.001	0.129	0.004	<0.001			<0.005	<0.05		0.12	<0.01	<0.01	<0.01	22.6	20.6	4.52				
Reg 6	Apr-2016		20.52																																												
Reg 6	May-2016		20.42																																												
Reg 6	Jun-2016		20.43	11.61	2480	16.3	10.7	2270	943	30	95	<1	124	112	528	12	<1	408	31	0.04	0.003	0.07	0.107		<0.0001		<0.001	0.006	0.001	0.004	<0.001			0.006	<0.05		1.13	0.43	1.89	2.32	19.7	19.1	1.48				
Reg 6	Jun-2016		20.36	8.33	2280	11.7	7.33	2240	1370	<1	<1	283	283	148	466	46	21	348	8	<0.01	<0.001	0.07	0.058		<0.0001		<0.001	<0.001	0.047	0.001	<0.001			<0.005	<0.05		0.13	<0.01	0.01	0.01	21.9	19.4	6.12				
Reg 6	Jul-2016		20.33																																												
Reg 6	Aug-2016		20.29																																												
Reg 6	Sep-2016		20.27	7.77	2148	17.8	8.16	2160	1080	<1	<1	216	216	161	478	52	23	401	8	<0.01	0.002	0.08	0.053		<0.0001		<0.001	<0.001	0.129	0.002	<0.001			<0.005	0.08		0.1	<0.01	0.04	0.04	21.2	22.1	2.25				
Reg 6	Oct-2016		20.24																																												
Reg 6	Nov-2016		20.24																																												
Reg 6	Dec-2016		20.27	8.46	2108	27.1	8.26	2050	1350	<1	<1	226	226	137	458	47	22	326	11	<0.01	0.001	0.07	0.069		<0.0001		<0.001	<0.001	0.071	0.002	<0.001			<0.005	<0.05		0.2	0.03	0.02	0.05	20.3	18.6	4.29				
Reg 6	Jan-2017		20.24																																												
Reg 6	Feb-2017		20.27																																												
Reg 6	Mar-2017		20.3	8.31	2156	20.8	8.23	2140	1160	<1	<1	197	197	137	462	41	22	350	11	<0.01	0.001	1.7	0.076		<0.0001		<0.001	<0.001	0.017	0.003	0.012			<0.05	0.21		<0.01	<0.01	0.07	19.8	1.17						
Reg 6	Apr-2017		20.32																																												
Reg 6	May-2017		20.32																																												
Reg 6	Jun-2017		20.23	8.65	2126	13.7	8.32	2050	1480	<1	1	194	195	133	452	46	25	378	10	<0.01	0.002		0.055		<0.0001		<0.001	<0.001	0.012	0.003	0.009			<0.05	0.11		<0.01	0.03	10.9	19.4	4.04						
Reg 6	Jul-2017		20.19																																												
Reg 6	Aug-2017		20.19																																												
Reg 6	Sep-2017		20.27	9.06	2450	18.9	8.58	2320	1200	<1	29	219	248	109	510	22	29	457	22	<0.01	0.001		0.028		<0.0001		0.001	<0.001	0.047	0.009	0.047			<0.05	0.27		0.11	0.2	0.07	21.6	5.08						
Reg 6	Oct-2017		20.23																																												
Reg 6	Nov-2017		20.29																																												
Reg 6	Dec-2017		20.3	7.9	2210	41.8	8.25	2090	1080	<1	<1	224	224	156	481	40	16	325	9	<0.01	<0.001		0.05		<0.0001		<0.001	<0.001	0.017	0.003	0.01			<0.05	0.13		0.03	0.1	0.17	21.3	9.27						
Reg 6	Jan-2018		20.34																																												
Reg 6	Feb-2018		20.75																																												
Reg 6	Mar-2018		21.31	8.28	2060	27.1	8.41	2130	1100	<1	10	184	195	182	482	40	16	328	13	<0.01	<0.001		0.052		<0.0001		<0.001	<0.001	0.02	0.002	0.021			<0.05	0.26		<0.01	0.08	0.08	21.3	8.6						
Reg 6	Apr-2018		20.7																																												
Reg 6	May-2018		21.65																																												

Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters: pH - Field	Field Parameters: EC - Field - µs/cm	Field Parameters: Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions: Hydroxide Alkalinity as CaCO3 - mg/L	Major Anions: Carbonate Alkalinity as CaCO3 - mg/L	Major Anions: Bicarbonate Alkalinity as CaCO3 - mg/L	Major Anions: Alkalinity - mg/L	Major Anions: Sulfate (SO4) - mg/L	Major Anions: Chloride (Cl) - mg/L
ANZECC Guideline - stock drinking water									**4000**					**1000**	
Reg 6	Jun-2018		21.92	8.14	2080	15.4	8.21	2020	1080	<1	<1	234	234	135	472
Reg 6	Jul-2018		22.2												
Reg 6	Aug-2018		22.2												
Reg 6	Sep-2018		22.07	7.69	2076	16.9	8.52	2060	782	<1	14	200	214	130	429
Reg 6	Oct-2018		22.02												
Reg 6	Nov-2018		22.16												
Reg 6	Dec-2018		22.36	8.01	2040	29.2	8.5	2060	1150	<1	21	200	220	147	459
Reg 6	Jan-2019		22.4												

Sample Location	Date	Major Cations: Calcium (Ca) - mg/L	Major Cations: Magnesium (Mg) - mg/L	Major Cations: Sodium (Na) - mg/L	Major Cations: Potassium (K) - mg/L	Total Metals: Aluminium (Al) - mg/L	Total Metals: Arsenic (As) - mg/L	Total Metals: Boron (B) - mg/L	Total Metals: Barium (Ba) - mg/L	Total Metals: Beryllium (Be) - mg/L	Total Metals: Cadmium (Cd) - mg/L	Total Metals: Cobalt (Co) - mg/L	Total Metals: Chromium (Cr) - mg/L	Total Metals: Copper (Cu) - mg/L	Total Metals: Manganese (Mn) - mg/L
ANZECC Guideline - stock drinking water		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**	
Reg 6	Jun-2018	45	20	344	9	<0.01	<0.001		0.043		<0.0001		<0.001	<0.001	0.013
Reg 6	Jul-2018														
Reg 6	Aug-2018														
Reg 6	Sep-2018	42	20	340	10	<0.01	<0.001		0.048		<0.0001		<0.001	<0.001	0.014
Reg 6	Oct-2018														
Reg 6	Nov-2018														
Reg 6	Dec-2018	50	22	350	11	<0.01	0.001		0.049		<0.0001		<0.001	<0.001	0.013
Reg 6	Jan-2019														

Sample Location	Date	Total Metals: Nickel (Ni) - mg/L	Total Metals: Lead (Pb) - mg/L	Total Metals: Selenium (Se) - mg/L	Total Metals: Vanadium (V) - mg/L	Total Metals: Zinc (Zn) - mg/L	Total Metals: Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
Reg 6	Jun-2018	0.002	0.006			<0.05	0.1		<0.01	0.02	0.76	20.8	4.3						
Reg 6	Jul-2018																		
Reg 6	Aug-2018																		
Reg 6	Sep-2018	0.002	0.008			<0.05	0.11		<0.01	<0.01	0.07	19.1	0.78						
Reg 6	Oct-2018																		
Reg 6	Nov-2018																		
Reg 6	Dec-2018	0.002	0.006			<0.05	0.06		<0.01	<0.01	0.76	20.4	1.47						
Reg 6	Jan-2019																		

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
Reg 6	Feb-2019		22.23																																												
Reg 6	Mar-2019		22.34	8.2	2044	29.9	7.94	2090	1090	<1	<1	188	188	88	444	40	19	346	10	<0.01	<0.001		0.056		<0.0001		<0.001	<0.001	0.017	0.002	0.011			<0.05	0.13		<0.01	<0.01	0.13	18.1	2.03						
Reg 6	Apr-2019		22.48																																												
Reg 6	May-2019		22.61																																												
Reg 6	Jun-2019		22.7	8.15	2146	22.2	8.19	2100	1100	<1	<1	200	200	144	459	38	18	335	10	<0.01	<0.001		0.055		<0.0001		<0.001	<0.001	0.016	0.006	0.01			<0.05	0.12		0.07	0.12	0.07	19.9	4.55						
Reg 6	Jul-2019		22.75																																												
Reg 6	Aug-2019		22.79																																												
Reg 6	Sep-2019		22.81	7.58	2336	33.4	7.98	2440	1320	<1	<1	201	201	156	508	43	30	378	15	<0.01	0.001		0.057		<0.0001		<0.001	<0.001	0.017	0.017	0.029			0.06	0.12		<0.01	0.02	<0.01	21.6	0.36						
Reg 6	Oct-2019		22.87																																												
Reg 6	Nov-2019		22.89																																												
Reg 6	Nov-2019		22.92	8.01	2062	27.5	8	2060	1060	<1	<1	216	216	148	509	40	18	324	10	<0.01	0.001		0.052		<0.0001		<0.001	<0.001	0.013	0.004	0.008			<0.05	0.11		<0.01	<0.01	0.03	21.8	9.93						
Reg 6	Jan-2020		24.98																																												
Reg 6	Feb-2020		22.9																																												
Reg 6	Mar-2020		22.69	8.45	2025	9.9	8.21	2080	1140	<1	<1	209	209	146	488	42	17	333	11	<0.01	<0.001	0.06	0.063		<0.0001			<0.001	0.07	0.006	<0.001			<0.005	<0.05		0.08	0.09	0.02	0.11	21	18.3	6.93				
Reg 6	Apr-2020		22.43																																												
Reg 6	May-2020		22.15																																												
Reg 6	Jun-2020		22.04	7.7	2042	17.2	7.98	2000	1060	<1	<1	212	212	134	469	40	19	349	10	<0.01	0.001	0.07	0.06		<0.0001			0.001	0.091	0.004	<0.001			0.008	<0.05		0.06	<0.01	0.02	0.02	20.2	19	3.21				
Reg 6	Jul-2020		21.93																																												
Reg 6	Aug-2020		21.79																																												
Reg 6	Sep-2020		21.75	7.89	2046	15.8	7.79	2020	1110	<1	<1	218	218	134	437	42	18	342	9	<0.01	0.001	<0.05	0.048		<0.0001			0.004	0.117	0.002	<0.001			0.008	<0.05		0.06	<0.01	0.03	0.03	19.5	18.7	2.07				
Reg 6	Oct-2020		21.71																																												
Reg 6	Nov-2020		21.65																																												
Reg 6	Nov-2020		21.64	7.98	2005	32.4	7.97	2120	1220	<1	<1	216	216	204	425	48	20	333	9	<0.01	<0.001	0.06	0.042		<0.0001			0.002	0.105	0.004	<0.001			0.013	<0.05		0.05	<0.01	<0.01	<0.01	20.6	18.8	4.57				
Reg 6	Jan-2021		21.71																																												
Reg 6	Feb-2021		21.86																																												
Reg 6	Mar-2021		21.85																																												
Reg 6	Apr-2021		21.79																																												
Reg 6	May-2021		20.83																																												
Reg 6	Jun-2021		21.68																																												
Reg 6	Jul-2021		21.55																																												
Reg 6	Aug-2021		21.49																																												
Reg 6	Sep-2021		21.39																																												
Reg 6	Oct-2021		21.53																																												
Reg 6	Nov-2021		21.31																																												
Reg 6	Dec-2021		21.11																																												
Reg 6	Jan-2022		21.06																																												
Reg 6	Feb-2022		20.90																																												
Reg 6	Mar-2022		20.87																																												
Reg 6	Apr-2022		20.69																																												
Reg 6	May-2022		20.59																																												
Reg 6	Jun-2022		20.52																																												
Reg 6	Jul-2022		20.35																																												
Reg 6	Aug-2022		20.24																																												
Reg 6	Sep-2022		20.13																																												
Reg 6	Oct-2022		20.06																																												
Reg 6	Nov-2022		19.87																																												
Reg 6	Dec-2022		19.72																																												
Reg 6	Jan-2023		19.43																																												
Reg 6	Feb-2023		19.54																																												
Reg 6	Mar-2023		19.25																																												
Reg 6	Apr-2023		19.06																																												
Reg 6	May-2023		19.04																																												
Reg 6	Jun-2023		17.78																																												
Reg 6	Jul-2023		18.85																																												
Reg 6	Aug-2023		18.80																																												
Reg 6	Sep-2023		18.31																																												
Reg 6	Oct-2023		18.84																																												
Reg 6	Nov-2023		18.85																																												
Reg 6	Dec-2023		18.83																																												
Reg 6	Jan-2024		18.88																																												
Reg 6	Feb-2024		18.96																																												
Reg 6	Mar-2024		19.24																																												
Reg 6	Apr-2024		19																																												
Reg 6	May-2024		19.1																																												
Reg 6	Jun-2024		19																																												
Reg 6	Jul-2024		19.1																																												
Reg 6	Aug-2024		19																																												
Reg 6	Sep-2024		19																																												
Reg 6	Oct-2024		19																																												
Reg 6	Nov-2024		19																																												
Reg 6	Dec-2024		19																																												
Reg 6	Jan-2025		19.06																																												
Reg 6	Jan-2025		12.08																																												
Reg 6	Feb-2025		19.9																																												
Reg 6	Apr-2025		20.02																																												
Reg 6	May-2025		19.81																																												
Reg 6	Jun-2025		19.59																																												
Reg 6	Jul-2025		19.34																																												
Reg 6	Sep-2025		19.19																																												
Reg 6	Sep-2025		19.14																																												
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Reg 7a																																															
Reg 7a	Mar-2014		6.61	7.23	1230	21.7	7.83	950	606	<1	<1	374	374	25	84	62	30	108	2	<0.01	0.007	<0.05	0.084		<0.0001		<0.001	0.002	2.53	0.002	<0.001			0.029	1.23		0.1	<0.01	0.05	0.05	10.4	10.3	0.26				
Reg 7a	Apr-2014		6.19																																												
Reg 7a	May-2014		6.23																																												
Reg 7a	Jun-2014		6.28	7.01	846	16.9	7.52	884		<1	<1	369	369	28	64	58	26	103	2	<0.01	0.005	<0.05	0.084		<0.0001		<0.001	<0.001	1.83	<0.001	<0.001			0.013	1.38		0.03	<0.01	0.12	0.12	9.76	9.57	1.03				

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									4000					1000		1000				5	0.5				0.01	1	1	1		1	0.1	0.02		20		0.002			400								
Reg 7a	Jul-2014		6.32																																												
Reg 7a	Aug-2014		6.37				7.77	871	354	<1	<1	358	358	35	61	55	28	106	2	<0.001	0.006	<0.05	0.08		<0.0001		<0.001	0.003	1.42	0.001	<0.001			0.048	<0.05		0.03	<0.01	0.06	0.06	9.6	9.71	0.54				
Reg 7a	Sep-2014		6.57																																												
Reg 7a	Oct-2014		6.58																																												
Reg 7a	Nov-2014		6.67																																												
Reg 7a	Dec-2014		6.69	7.6	805	23.8	8.11	853	428	<1	<1	300	300	38	66	45	22	89	2	<0.01	0.004	<0.05	0.072		<0.0001		<0.001	0.002	1.23	0.002	<0.001			0.076	<0.05		0.03	<0.01	0.02	0.02	8.65	7.98	4.04				
Reg 7a	Jan-2015		6.76																																												
Reg 7a	Feb-2015		6.85																																												
Reg 7a	Mar-2015		6.93	7.51	857	22	7.61	834	491	<1	<1	393	393	43	48	56	30	111	2	<0.01	0.008	<0.05	0.09		<0.0001		<0.001	0.002	1.25	0.002	<0.001			0.051	0.69		0.03	<0.01	0.17	0.17	10.1	10.1	0.18				
Reg 7a	Apr-2015		7.04																																												
Reg 7a	May-2015		7.19																																												
Reg 7a	Jun-2015		7.35	7.19	778	20	7.31	793	486	<1	<1	336	336	42	45	55	26	97	2	<0.1	0.008	<0.05	0.084		<0.0001		<0.001	<0.001	0.956	<0.001	<0.001			0.019	0.7		0.01	<0.01	0.02	0.02	8.86	9.15	1.63				
Reg 7a	Jul-2015		7.41	7.32	1985	19.1																																									
Reg 7a	Aug-2015		7.58																																												
Reg 7a	Sep-2015		7.71	7.86	747	20.1	7.41	772	450	<1	<1	297	297	36	55	52	27	104	2	<0.01	0.008	<0.05	0.085		<0.0001		<0.001	<0.001	0.86	<0.001	<0.001			0.037	0.29		0.07	<0.01	0.09	0.09	8.24	9.39	6.54				
Reg 7a	Oct-2015		7.87																																												
Reg 7a	Nov-2015		7.93																																												
Reg 7a	Dec-2015		8.03	7.05	841	23.5	7.79	860	468	<1	<1	332	332	45	53	51	24	94	1	<0.01	0.009	<0.05	0.089		<0.0001		<0.001	<0.001	1.05	0.001	<0.001			0.008	0.7		<0.01	<0.01	<0.01	<0.01	9.06	8.63	2.45				
Reg 7a	Jan-2016		8.15																																												
Reg 7a	Feb-2016		8.22																																												
Reg 7a	Mar-2016		8.29	7.47	778	17.4	7.77	788	418	<1	<1	310	310	31	45	44	24	100	2	<0.01	0.008	<0.05	0.076		<0.0001		<0.001	<0.001	0.711	0.002	<0.001			0.029	0.35		0.04	<0.01	0.02	0.02	8.11	8.57	2.75				
Reg 7a	Apr-2016		8.42																																												
Reg 7a	May-2016		8.48																																												
Reg 7a	Jun-2016		8.65	7.38	786	15	7.77	758	374	<1	<1	300	300	20	40	44	21	86	1	<0.01	0.007	<0.05	0.078		<0.0001		<0.001	<0.001	0.68	0.001	<0.001			0.022	0.31		0.03	<0.01	<0.01	<0.01	7.54	7.69	0.97				
Reg 7a	Jul-2016		8.62																																												
Reg 7a	Aug-2016		8.7																																												
Reg 7a	Sep-2016		7.96	7.25	780	15.7	7.49	790	416	<1	<1	304	304	33	41	50	21	98	1	<0.01	0.006	<0.05	0.09		<0.0001		<0.001	<0.001	0.81	0.002	<0.001			0.019	0.44		0.03	<0.01	0.05	0.05	7.92	8.51	3.59				
Reg 7a	Oct-2016		6.03																																												
Reg 7a	Nov-2016		5.76																																												
Reg 7a	Dec-2016		5.94	7.66	742	16.2	7.8	714	496	<1	<1	296	296	26	46	43	20	79	2	0.06	0.006	<0.05	0.058		<0.0001		0.002	0.003	0.005	0.006	<0.001			0.023	<0.05		0.02	<0.01	0.56	0.56	7.75	7.28	3.15				
Reg 7a	Jan-2017		6.06																																												
Reg 7a	Feb-2017		6.25																																												
Reg 7a	Mar-2017		6.34	7.22	878	17.8	7.81	860	456	<1	<1	305	305	43	58	53	24	92	2	<0.01	0.006	0.3	0.096		<0.0001		<0.001	<0.001	0.001	0.011	0.002			0.43	0.03		<0.01	<0.01	0.14	8.62	0.28						
Reg 7a	Apr-2017		6.45																																												
Reg 7a	May-2017		6.61																																												
Reg 7a	Jun-2017		6.66	7.31	869	14.1	7.67	833	496	<1	<1	311	311	36	58	53	24	98	2	<0.01	0.006		0.093		<0.0001		<0.001	<0.001	0.002	0.003	0.002			0.36	0.02		0.02	0.02	0.07	8.6	1.91						
Reg 7a	Jul-2017		6.72																																												
Reg 7a	Aug-2017		6.8																																												
Reg 7a	Sep-2017		6.81	7.45	806	15.4	7.92	774	452	<1	<1	345	345	26	45	45	20	89	2	<0.01	0.003		0.075		<0.0001		0.001	<0.001	<0.001	0.003	0.002			0.35	0.46		0.04	0.04	0.22	8.7	5.39						
Reg 7a	Oct-2017		6.93																																												
Reg 7a	Nov-2017		7.01																																												
Reg 7a	Dec-2017		7.18	6.79	898	34.5	7.74	850	421	<1	<1	358	358	38	54	52	26	108	2	<0.01	0.005		0.094		<0.0001		0.008	<0.001	0.003	0.001	0.003			0.12	<0.01		<0.01	<0.01	0.08	9.47	0.08						
Reg 7a	Jan-2018		7.27																																												
Reg 7a	Feb-2018		7.48																																												
Reg 7a	Mar-2018		7.75	7.05	852	15.3	7.44	899	506	<1	<1	329	329	47	58	54	24	92	1	<0.01	0.004		0.087		<0.0001		0.008	<0.001	<0.001	0.002	0.002			0.3	0.02		0.07	0.07	0.1	9.19	2.74						
Reg 7a	Apr-2018		7.84																																												
Reg 7a	May-2018		8.01																																												
Reg 7a	Jun-2018		8.18	7.35	790	20.9	7.73	799	427	<1	<1	350	350	34	48	49	23	96	1	<0.01	0.005		0.089		<0.0001		0.004	<0.001	<0.001	<0.001	0.002			0.23	<0.01		13.7	13.7	0.12	9.05	2.93						
Reg 7a	Jul-2018		8.28																																												
Reg 7a	Aug-2018		8.46																																												
Reg 7a	Sep-2018		8.62	7.28	822	22.2	7.69	766	398	<1	<1	295	295	28	46	41	21	89	1	<0.01	0.005		0.077		<0.0001		0.007	<0.001	<0.001	0.002	0.001			0.22	0.02		0.02	0.02	0.11	7.77	0.67						
Reg 7a	Oct-2018		8.68																																												
Reg 7a	Nov-2018		8.81																																												
Reg 7a	Dec-2018		8.97	7.33	794	26	8.51	752	460	<1	30	293	323	36	51	54	25	100	2	<0.01	0.004		0.092		<0.0001		<0.001	<0.001	0.001	0.001	0.002			0.26	0.02		0.04	0.04	0.12	8.64	2.87						
Reg 7a	Jan-2019		8.98																																												
Reg 7a	Feb-2019		9.05																																												
Reg 7a	Mar-2019		9.11	7.28	821	30.5	7.61	784	485	<1	<1	336	336	35	52	48	22	94	1	<0.01	0.003	0.2	0.089		<0.0001		<0.001	<0.001	<0.001	0.001	0.002			0.2	0.06		0.07	0.07	0.1	8.91	3.42						
Reg 7a	Apr-2019		9.21																																												
Reg 7a	May-2019		9.16																																												
Reg 7a	Jun-2019		9.04	7.2	936	22.1	7.85	881	525	<1	<1	320	320	43	60	52	27	96	1	<0.01	0.003		0.096		<0.0001		<0.001	<0.001	<0.001	<0.001	0.002			0.31	<0.01		0.07	0.07	0.1	8.98	0.2						
Reg 7a	Jul-2019		9.12																																												
Reg 7a	Aug-2019		9.17																																												
Reg 7a	Sep-2019		9.25	9.53	862	22.1	7.32	912	510	<1	<1	287	287	36	47	51	25	97	1	<0.01	0.004		0.096		<0.0001		0.007	<0.001	<0.001	0.003	0.002			0.21	<0.01		0.04	0.04	0.09	7.81	6.23						
Reg 7a	Oct-2019		9.35																																												
Reg 7a	Nov-2019		9.38																																												
Reg 7a	Nov-2019		9.34	7.28	839	24.6	7.4	888	482	<1	<1	341	341	39	55	49	24	96	2	<0.01	0.004		0.093		<0.0001		0.004	<0.001	0.001	0.002	0.002			0.09	0.02		0.02	0.02	0.01	9.18	2.97						
Reg 7a	Jan-2020		9.53																																												
Reg 7a	Feb-2020		8.77																																												
Reg 7a	Mar-2020		8.37	7.28	912	22.4	7.29	885	533	<1	<1	376	376	43	59	65	28	100	2	<0.01	0.003	<0.05	0.11		<0.0001			<0.001	0.416	0.002	<0.001			0.064	0.17		0.02	<0.01	<0.01	<0.01	10.1	9.95	0.62				
Reg 7a	Apr-2020		7.83																																												
Reg 7a	May-2020		7.05																																												
Reg 7a	Jun-2020		7.03	6.99	961	9	7.19	968	558	<1	<1	344	344	60	65	62	28	110	2	<0.01	0.002	<0.05	0.123		<0.0001			<0.001	0.353	<0.001	<0.001			0.044	0.1		<0.01	0.02	0.4	0.42	9.96	10.2	1.38				
Reg 7a	Jul-2020		7.05																																												
Reg 7a	Aug-2020		7.04																																												
Reg 7a	Sep-2020		7.11	7.07	984	20.4	7.18	957	551	<1	<1	360	360	60	67	60	27	116	2	<0.01	<0.001	<0.05	0.113		<0.0001			0.001	0.343	0.001	<0.001			0.052	0.13		<0.01	<0.01	0.42	0.42	10.3	10.3	0.09				
Reg 7a	Oct-2020		7.06																																												
Reg 7a	Nov-2020		7.08																																												
Reg 7a	Dec-2020		7.06	7.07	469	27.9	7.4	896	540	<1	<1	343	343	59	60	58	26	103	2	<0.01	<0.001	<0.05	0.109		<0.0001			0.006	0.317	0.002	<0.001			0.064	0.07		<0.01	0.01	0.24	0.25	9.77	9.56	1.08				
Reg 7a	Jan-2021		6.9																																												
Reg 7a	Feb-2021		6.85																																												
Reg 7a	Mar-2021		6.84																																												
Reg 7a	Apr-2021		6.11																																												
Reg 7a	May-2021		6.16																																												
Reg 7a	Jun-2021		6.1																																												
Reg 7a	Jul-2021		5.28																																												
Reg 7a	Aug-2021		4.88																																												
Reg 7a	Sep-2021		4.85																																												
Reg 7a	Oct-2021		5.07																																												
Reg 7a	Nov-2021		5.16																																												
Reg 7a	Dec-2021		4.17																																												
Reg 7a	Jan-2022		4.22																																												
Reg 7a	Feb-2022		4.71																																												
Reg 7a	Mar-2022		4.77																																												
Reg 7a	Apr-2022		5.12																																												
Reg 7a	May-2022		5.34																																												
Reg 7a	Jun-2022		5.44																																												
Reg 7a	Jul-2022		5.57																																												
Reg 7a	Aug-2022		5.73																																												
Reg 7a	Sep-2022		5.77																																												
Reg 7a	Oct-2022		4.55																																												
Reg 7a	Nov-2022		3.25																																												
Reg 7a	Dec-2022		3.44																																												
Reg 7a	Jan-2023		4.32																																												
Reg 7a	Feb-2023		4.56																																												
Reg 7a	Mar-2023		4.81																																												
Reg 7a	Apr-2023		5.04																																												
Reg 7a	May-2023		5.24																																												
Reg 7a	Jun-2023		5.39																																												
Reg 7a	Jul-2023		5.58																																												
Reg 7a	Aug-2023		5.66																																												
Reg 7a	Sep-2023		5.68																																												
Reg 7a	Oct-2023		5.9																																												
Reg 7a	Nov-2023		5.95																																												
Reg 7a	Dec-2023		5.99																																												
Reg 7a	Jan-2024		6.15																																												
Reg 7a	Feb-2024		6.35																																												
Reg 7a	Mar-2024		6.27																																												
Reg 7a	Apr-2024		6.45																																												
Reg 7a	May-2024		6.65																																												
Reg 7a	Jun-2024		6.71																																												
Reg 7a	Jul-2024		16.8																																												

				Field Parameters						Major Anions						Major Cations				Total Metals																											
Sample Location	Date	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µs/cm	Temp - Field - °C	pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L	Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**								
Reg 7a	Aug-2024		6.80																																												
Reg 7a	Sep-2024		6.83																																												
Reg 7a	Oct-2024		6.80																																												
Reg 7a	Nov-2024		7.06																																												
Reg 7a	Dec-2024		7.09																																												
Reg 7a	Jan-2025		7.1																																												
Reg 7a	Jan-2025		7.13																																												
Reg 7a	Feb-2025		7.23																																												
Reg 7a	Apr-2025		6.96																																												
Reg 7a	May-2025		6.67																																												
Reg 7a	Jun-2025		6.44																																												
Reg 7a	Jul-2025		5.88																																												
Reg 7a	Sep-2025		4.88																																												
Reg 7a	Sep-2025		4.67																																												
Reg 7a	Oct-2025		4.88																																												
Reg 7a	Nov-2025		5.05																																												
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Sample Location	Date	Depth to Ground -mbgl	Depth to Stand -mbtoc	Field Parameters			pH - Lab	EC - Lab - µs/cm	Total Dissolved Solids	Major Anions						Major Cations				Total Metals																					Mercury (Hg) - mg/L	Ammonia as Nitrogen (N)	Nitrite as N - mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Anions - meq/L	Total Cations - meq/L	Ionic Balance	TPH C6-C9	TPH C10-C36	TRH C6- C10	TRH C10-C40
				pH - Field	EC - Field - µS/cm	Temp - Field - °C				Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Sulfate (SO4) - mg/L	Chloride (Cl) - mg/L	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Boron (B) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Cobalt (Co) - mg/L	Chromium (Cr) - mg/L	Copper (Cu) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Lead (Pb) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Iron (Fe) - mg/L														
ANZECC Guideline - stock drinking water									**4000**					**1000**		**1000**				**5**	**0.5**				**0.01**	**1**	**1**	**1**		**1**	**0.1**	**0.02**		**20**		**0.002**			**400**									
Reg 14																																																
Reg 14	Mar-2014		20.58	7.63	1575	26.9	7.76	1260	959	<1	<1	354	354	36	188	35	14	233	3	0.7	0.012	<0.05	0.08		0.0002		<0.001	0.019		0.006	0.008			0.043	3.08		0.13	<0.01	<0.01	<0.01	13.1	13.1	0.09				
Reg 14	Apr-2014		20.54																																													
Reg 14	May-2014		19.67																																													
Reg 14	Jun-2014		19.45				7.72	1290		<1	<1	396	396	34	170	38	13	268	4	0.03	0.003	<0.05	0.072		<0.0001		<0.001	0.002		0.004	<0.001			0.015	0.09		0.2	<0.01	0.34	0.34	13.4	14.7	4.62				
Reg 14	Jul-2014		19.4																																													
Reg 14	Aug-2014																																														
Reg 14	Sep-2014		22.41																																												
Reg 14	Oct-2014		21.2																																												
Reg 14	Nov-2014		19.97																																												
Reg 14	Dec-2014		19.85	7.85	1198	29.1	8.14	1250	710	<1	<1	347	347	24	181	30	10	205	3	<0.01	0.01	<0.05	0.056		<0.0001		<0.001	<0.001		0.001	<0.001			0.024	<0.05		0.29	<0.01	0.05	0.05	12.5	11.3	5.17				
Reg 14	Jan-2015		20.14																																													
Reg 14	Feb-2015		20.67																																												
Reg 14	Mar-2015		20.67	8.23	1226	22.9	8.09	1220	758	<1	<1	449	449	30	175	38	12	253	2	<0.01	0.01	0.05	0.05		<0.0001		<0.001	<0.001		0.002	<0.001			0.009	<0.05		0.32	<0.01	0.03	0.03	14.5	13.9	2.12				
Reg 14	Apr-2015		19.95																																													
Reg 14	May-2015		19.77																																													
Reg 14	Jun-2015		19.65	8.62	1178	21	7.85	1200	699	<1	<1	380	380	29	164	44	11	239	3	0.02	0.008	<0.05	0.044		<0.0001		<0.001	0.001		0.001	<0.001			0.01	<0.05		0.25	<0.01	0.05	0.05	12.8	13.6	2.81				
Reg 14	Jul-2015		19.59																																													
Reg 14	Aug-2015		19.57																																												
Reg 14	Sep-2015		19.54	8.24	786	17.6	7.85	797	480	<1	<1	287	287	38	59	22	8	167	2	<0.01	0.004	<0.05	0.041		<0.0001		<0.001	<0.001		0.002	<0.001			0.039	0.07		0.01	<0.01	0.05	0.05	8.19	9.07	5.06				
Reg 14	Oct-2015		20.27																																													
Reg 14	Nov-2015		19.74																																												
Reg 14	Dec-2015		20	7.26	917	27	7.95	959	535	<1	<1	329	329	48	77	27	8	179	2	<0.01	0.009	<0.05	0.038		<0.0001		<0.001	<0.001		0.002	<0.001			0.006	0.41		0.03	<0.01	0.02	0.02	9.74	9.84	0.46				
Reg 14	Jan-2016		20.76																																													
Reg 14	Feb-2016		21.04																																												
Reg 14	Mar-2016		21.24	7.62	995	29.6	8.01	983	504	<1	<1	320	320	40	78	26	10	184	2	<0.01	0.004	<0.05	0.034		<0.0001		<0.001	<0.001		0.004	<0.001			0.007	0.09		0.04	<0.01	<0.01	<0.01	9.43	10.2	3.78				
Reg 14	Apr-2016		20.34																																													
Reg 14	May-2016		20.14																																													
Reg 14	Jun-2016		19.92	8.08	876	17	8.15	871	444	<1	<1	292	292	40	68	25	7	154	2	<0.01	0.004	<0.05	0.044		<0.0001		<0.001	<0.001		0.002	<0.001			0.01	0.12		0.12	<0.01	0.04	0.04	8.58	8.57	0.11				
Reg 14	Jul-2016		19.79																																													
Reg 14	Aug-2016		19.75																																													
Reg 14	Sep-2016		19.75	8	886	17.4	7.96	921	519	<1	<1	291	291	45	64	21	7	159	1	<0.01	0.003	<0.05	0.043		<0.0001		<0.001	<0.001		0.002	<0.001			<0.005	0.09		0.16	<0.01	0.04	0.04	8.56	8.56	0.01				
Reg 14	Oct-2016		19.65																																													
Reg 14	Nov-2016		19.6																																													
Reg 14	Dec-2016		19.76	8.15	888	17.2	8.12	856	600	<1	<1	297	297	36	83	26	7	162	2	<0.01	0.004	<0.05	0.041		<0.0001		<0.001	<0.001		0.002	<0.001			<0.005	0.08		0.16	<0.01	0.05	0.05	9.02	8.97	0.3				
Reg 14	Jan-2017		20.53																																													
Reg 14	Feb-2017		20.43																																													
Reg 14	Mar-2017		20.23	7.36	972	20.1	7.88	938	660	<1	<1	320	320	47	76	22	8	177	2	<0.01	0.005	0.3	0.034		<0.0001		<0.001	<0.001		0.007	0.003			0.34	0.05		0.01	0.01	0.28	9.52	0.05					
Reg 14	Apr-2017		19.7																																													
Reg 14	May-2017		19.72																																													
Reg 14	Jun-2017		19.56	8.22	908	14.9	8.34	935	504	<1	5	271	276	34	82	29	8	169	2	<0.01	0.002		0.042		<0.0001		<0.001	<0.001		0.002	0.004			0.1	0.21		<0.01	<0.01	0.09	8.54	5.39					
Reg 14	Jul-2017		19.49																																													
Reg 14	Aug-2017		19.42																																													
Reg 14	Sep-2017		19.77	8.16	916	17.3	8.15	893	419	<1	<1	298	298	41	81	26	7	163	2	<0.01	0.003		0.039		<0.0001		<0.001	<0.001		0.002	0.003			0.09	0.23		0.03	0.03	0.12	9.09	0.43					
Reg 14	Oct-2017		20.33																																													
Reg 14	Nov-2017		19.97																																													
Reg 14	Dec-2017		20.15	7.1	938	24.6	8.34	928	576	<1	6	306	312	44	104	26	7	158	2	<0.01	0.003		0.033		<0.0001		<0.001	<0.001		0.001	0.002			0.09	0.18		0.04	0.04	0.08	10.1	6.81					
Reg 14	Jan-2018		21.27																																													
Reg 14	Feb-2018		21.65																																													
Reg 14	Mar-2018		20.77	7.14	1002	18.1	7.62	1050	595	<1	<1	325	325	75	102	26	8	178	2	<0.01	0.004		0.028		<0.0001		<0.001	<0.001		0.002	0.005			0.28	0.03		0.02	0.02	0.26	10.9	5.72					
Reg 14	Apr-2018		20.77																																													
Reg 14	May-2018		20.68																																													
Reg 14	Jun-2018		21.96	7.4	980	18.4	7.84	978	566	<1	<1	335	335	54	78	24	8	184	2	<0.01	0.003		0.03		<0.0001		<0.001	<0.001		0.003	<0.001			0.37	0.03		<0.01	<0.01	0.25	10	0.54					
Reg 14	Jul-2018		21.04																																													
Reg 14	Aug-2018		20.91																																													
Reg 14	Sep-2018		20.44	6.9	1024	22.4	8.55	988	520	<1	22	288	310	41	65	22	7	170	1	<0.01	0.004		0.032		<0.0001		<0.001	<0.001		0.002	<0.001			0.27	0.05		<0.01	<0.01	0.24	8.88	1.18					
Reg 14	Oct-2018		20.96																																													
Reg 14	Nov-2018		20.96																																													
Reg 14	Dec-2018		21.25	7.51	948	25	8.55	951	588	<1	29	332	361	45	81	26	9	189	2	<0.01	0.003		0.038		<0.0001		<0.001	<0.001		0.003	0.001			0.08	0.03		<0.01	<0.01	0.23	10.4	0.6					
Reg 14	Jan-2019		22.07																																													
Reg 14	Feb-2019		22.05																																													
Reg 14	Mar-2019		22.05	7.67	988	29.4	7.6	993	608	<1	<1	269	269	58	92	26	8	185	2	<0.01	0.003		0.021		<0.0001		<0.001	<0.001		0.003	0.002			<0.05	0.08		<0.01	<0.01	0.16	9.18	4.56					
Reg 14	Apr-2019		21.33																																													
Reg 14	May-2019		21.01																																													
Reg 14	Jun-2019		21.03	7.51	1017	23.8	8.22	972	588	<1	<1	305	305	41	88	25	9	177	2	<0.01	0.003		0.032		<0.0001		<0.001	<0.001		0.005	0.006			0.06	0.08		<0.01	<0.01	0.21	9.43	1.61					
Reg 14	Jul-2019		21																																													
Reg 14	Aug-2019		21.38																																													
Reg 14	Sep-2019		20.91	7.22	1223	31.2	7.8	1240	670	<1	<1	265	265	70	157	29	14	202	4	<0.01	0.003		0.034		<0.0001		<0.001	<0.001		0.012	0.011			0.13	0.15		0.02	0.02	0.16	11.2	1.36					
Reg 14	Oct-2019		21.59																																													
Reg 14	Nov-2019		21.24																																													
Reg 14	Nov-2019		21.41	7.48	1435	30.9	7.75	1360	713	<1	<1	255	255	243	168	50	12	222	7	<0.01	0.003		0.032		<0.0001		<0.001	<0.001		0.009	0.029			<0.05	0.12		<0.01	<0.01	0.1	14.9	5.58					
Reg 14	Jan-2020		21.72																																													
Reg 14	Feb-2020		21.25																																													
Reg 14	Mar-2020		20.85	7.75	994	21.4	7.72	1010	654	<1	<1	337	337	54	114	29	9	175	2	<0.01	0.003	<0.05	0.026		<0.0001			<0.001		0.009	<0.001			0.008	<0.05		0.15	<0.01	<0.01	<0.01	11.1	9.85	5.84				
Reg 14	07/04/202		20.64																																													
Reg 14	May-2020		20.54																																													
Reg 14	Jun-2020		20.5	7.27	1048	19.2	7.58	1040	488	<1	<1	320	320	49	126	24	9	199	2	<0.01	0.003	<0.05	0.034		<0.0001			0.001		0.011	<0.001			0.02	<0.05		0.05	<0.01	0.01	0.01	11	10.6	1.49				
Reg 14	Jul-2020		20.45																																													
Reg 14	Aug-2020		20.44																																													
Reg 14	Sep-2020		20.41	7.45	1034	17	7.47	1060	646	<1	<1	343	343	81	106	28	9	194	2	<0.01	0.003	<0.05	0.031		<0.0001			<0.001		0.004	<0.001			0.016	<0.05		0.06	<0.01	0.04	0.04	11.5	10.6	4.07				
Reg 14	Oct-2020		20.65																																													
Reg 14	Nov-2020		20.57																																													
Reg 14	Nov-2020		21.1	7.52	472	30.5	7.54	1040	694	<1	<1	348	348	78	109	26	8	184	2	<0.01	0.003	<0.05	0.027		<0.0001			<0.001		0.004	<0.001			0.013	<0.05		0.04	<0.01	0.02	0.02	11.6	10	7.58				

Department of Planning, Housing and Infrastructure

Reference: MP11_0047-PA-90

[redacted]
Superintendent - Environment
Tarrawonga Coal Pty Ltd
18/09/2026

Sent via the Major Projects Portal only

Subject: Tarrawonga Coal Expansion - Annual Review 2025

Dear [redacted]

I refer to your Annual Review for the period 1 January 2025 to 31 December 2025, submitted as required by Schedule 5, Condition 4 of MP11_0047 as modified (**the Consent**) to the NSW Department of Planning, Housing and Infrastructure (the **Department**) on 31 March 2026.

The Department has reviewed the Annual Review and considers it to generally satisfy the reporting requirements of the Consent and the Department's Annual Review Guideline (October 2015). As required by Schedule 5, Condition 12 of the Consent please make a copy of the 2025 Annual Review publicly available on the company's website.

Please note:

- The Department's acceptance of this Annual Review is not an endorsement of the compliance status of the project.
- Following submission of the 2025 Annual Review you are required to review and if necessary, revise the strategies, plans, and programs required under this Consent, in accordance with Schedule 5, Condition 5 of the Consent.

Should you wish to discuss the matter further, please contact [redacted], Senior Compliance Officer on 02 6448 8506 or email compliance@planning.nsw.gov.au

Yours sincerely

[redacted]
Team Leader - Central West
Compliance

As nominee of the Planning Secretary