

Tarrawonga Coal Mine Community Consultative Committee Meeting #78

Quarterly Environmental Monitoring Report
July 2024 – September 2024



Photo taken in July 2024 showing rehabilitation progression of the South Rehab with fresh vegetation

This report has been prepared for the Community Consultative Committee (CCC) meeting to show Environmental monitoring performance at Tarrawonga Coal Mine (TCM) for the reporting period from July 1 2024 to September 30 2024. Maps with all the monitoring locations are available in *Appendix A*.

Noise Monitoring

Attended Noise Monitoring was conducted during this period.

Attended noise monitoring was conducted at the “Bungalow” (TN4), “Barbers Lagoon” (TN3) and “Matong” (TN2) properties from 16th to the 20th of September 2024. Noise criteria for the mine is 35dB(A) Leq (15 min) for all operating times.

Results below show that noise emissions from the mine did not exceed operational noise criteria at the “Barbers Lagoon”, “Bungalow” or “Matong” monitoring locations for any monitoring events during the monitoring period.

(See below summary tables extracted from Tarrawonga Coal Mine Noise Monitoring – Q3 September 2024)

Table 1 TCM Operational Noise Monitoring Results – 16 September 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC ¹	Identified Noise Sources
Matong – TN2	8:35pm	29	1.3 / 174 / F	Traffic (27), cows (24), TCM (<20)
Barbers Lagoon – TN3	7:06pm	45	0.5 / 286 / E	Traffic (45), TCM (<20)
Bungalow – TN4	7:45pm	41	0.9 / 191 / E	Traffic (41), insects (23), TCM (<20)

1. Coal trucks on private haul road

Table 2 TCM Operational Noise Monitoring Results – 16-17 September 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:00pm	29	1.7 / 061 / E	Cows (28), traffic (21), TCM (<20)
Barbers Lagoon – TN3	11:20pm	27	1.7 / 044 / E	Dogs (27), TCM (<20)
Bungalow – TN4	12:32am	27	1.5 / 046 / E	TCM (27)

Table 3 TCM Operational Noise Monitoring Results – 17 September 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	2:25pm	35	2.9 / 235 / C	Birds (35), TCM (<20)
Barbers Lagoon – TN3	11:04am	52	2.2 / 235 / B	Traffic (52), birds (32), TCM (<20)
Bungalow – TN4	12:45pm	43	2.5 / 245 / B	Traffic (43), birds (25), TCM (<20)

Table 4 TCM Operational Noise Monitoring Results – 17 September 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:09pm	29	1.9 / 053 / E	Cows (29), TCM (<20)
Barbers Lagoon – TN3	7:40pm	27	1.8 / 056 / E	Traffic (23), TCM (22), birds (21)
Bungalow – TN4	8:19pm	25	1.5 / 039 / D	Traffic (23), TCM (21)

Table 5				
TCM Operational Noise Monitoring Results – 17-18 September 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:00pm	24	2.0 / 052 / E	TCM (24)
Barbers Lagoon – TN3	12:35am	30	2.0 / 040 / E	TCM (27), birds (27)
Bungalow – TN4	11:26pm	47	1.6 / 059 / E	Traffic (47), dogs (23), TCM (<20)

Table 6				
TCM Operational Noise Monitoring Results – 18 September 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	2:19pm	45	4.1 / 293 / C	Traffic (44), birds (38), TCM (<20)
Barbers Lagoon – TN3	10:49am	53	3.5 / 286 / C	Traffic (53), birds (38), insects (23), TCM (<20)
Bungalow – TN4	12:29pm	33	4.2 / 294 / C	Birds (33), TCM (<20)

Table 7				
TCM Operational Noise Monitoring Results – 18 September 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	8:36pm	23	1.7 / 024 / E	Traffic (23), TCM (<20)
Barbers Lagoon – TN3	7:04pm	26	1.6 / 113 / D	Dogs (24), TCM (22)
Bungalow – TN4	7:45pm	25	2.2 / 035 / E	Insects (25), TCM (<20)

Table 8				
TCM Operational Noise Monitoring Results – 18-19 September 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:03pm	24	1.9 / 028 / E	Cows (24), TCM (<20)
Barbers Lagoon – TN3	12:33am	29	1.7 / 038 / E	TCM (27), insects (25)
Bungalow – TN4	11:21pm	22	2.0 / 025 / E	Dogs (22), TCM (<20)

Table 9				
TCM Operational Noise Monitoring Results – 19 September 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	1:34pm	46	6.0 / 307 / C	Traffic (46), birds (35), TCM (<20)
Barbers Lagoon – TN3	10:02am	53	5.0 / 303 / C	Traffic (53), birds (34), TCM (<20)
Bungalow – TN4	11:43am	45	5.8 / 306 / C	Traffic (45), birds (34), TCM (<20)

Table 10				
TCM Operational Noise Monitoring Results – 19 September 2024 (Evening)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	8:47pm	23	0.8 / 168 / E	Dogs (23), TCM (<20)
Barbers Lagoon – TN3	7:12pm	23	4.2 / 264 / D	Birds (23), TCM (<20)
Bungalow – TN4	7:54pm	23	1.8 / 297 / E	Birds (23), TCM (<20)

Table 11 TCM Operational Noise Monitoring Results – 19-20 September 2024 (Night)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	10:10pm	22	2.1 / 037 / E	Birds (22), TCM (<20)
Barbers Lagoon – TN3	12:54am	23	1.7 / 045 / E	Insects (23), TCM (<20)
Bungalow – TN4	11:42pm	23	1.4 / 129 / F	Traffic (23), TCM (<20)

Table 12 TCM Operational Noise Monitoring Results – 20 September 2024 (Day)				
Location	Time	Total dB(A), Leq (15 min)	Wind speed / direction / PSC	Identified Noise Sources
Matong – TN2	9:22am	45	1.4 / 273 / A	Birds (45), traffic (31), TCM (<20)
Barbers Lagoon – TN3	11:18am	42	1.9 / 236 / A	Traffic (40), birds (38), TCM (<20)
Bungalow – TN4	12:59pm	39	2.5 / 250 / B	Birds (39), TCM (<20)

Noise from the mine must not exceed 45 dB(A) L1 (1 min) between 10 pm and 7 am. This criterion is to minimise the potential for sleep disturbance because of individual loud noises from the mine.

Results of attended monitoring show that the measured L1 (1 min) noise level did not exceed sleep disturbance criteria.

Table 13 TCM Sleep Disturbance Monitoring Results – 16-17 September 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:00pm	<20	56	Cows	1.7 / 061 / E
Barbers Lagoon – TN3	11:20pm	<20	39	Dogs	1.7 / 044 / E
Bungalow – TN4	12:32am	33	33	Mine revs	1.5 / 046 / E

1. L1 (1 min) – total measured level.
2. L1 (1 min) – TCM noise only.

Table 14 TCM Sleep Disturbance Monitoring Results – 17-18 September 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:00pm	27	27	Mine revs	2.0 / 052 / E
Barbers Lagoon – TN3	12:35am	32	32	Mine revs	2.0 / 040 / E
Bungalow – TN4	11:26pm	<20	67	Traffic	1.6 / 059 / E

Table 15 TCM Sleep Disturbance Monitoring Results – 19-20 June 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:20pm	37	25	Cows	1.2 / 097 / E
Barbers Lagoon – TN3	12:55am	29	<20	Bird	1.4 / 064 / E
Bungalow – TN4	11:41pm	39	26	Car	1.5 / 053 / E

Table 16 TCM Sleep Disturbance Monitoring Results – 20-21 June 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:18pm	41	<20	Cows	0.9 / 066 / E
Barbers Lagoon – TN3	12:53am	4	35	Traffic	1.6 / 067 / E
Bungalow – TN4	11:40pm	47	33	Traffic	1.0 / 114 / E

Table 15 TCM Sleep Disturbance Monitoring Results – 18-19 September 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:03pm	<20	38	Cows	1.9 / 028 / E
Barbers Lagoon – TN3	12:33am	32	35	Insects	1.7 / 038 / E
Bungalow – TN4	11:21pm	<20	35	Dogs	2.0 / 025 / E

Table 16 TCM Sleep Disturbance Monitoring Results – 19-20 September 2024 (Night)					
Location	Time	dB(A) L1 (1 min) ¹	dB(A) L1 (1 min) ²	L1 Source	Wind speed / direction / PSC
Matong – TN2	10:10pm	<20	29	Birds	2.1 / 037 / E
Barbers Lagoon – TN3	12:54am	<20	35	Insects	1.7 / 045 / E
Bungalow – TN4	11:42pm	<20	29	Traffic	1.4 / 129 / F

The real time noise monitor located on the “Coomalgah” property remains a management tool, so the noise criteria are not applicable at that site. Levels of noise recorded at that location are managed according to the Noise Management Plan and Trigger Action Response Plan.

Blast Monitoring

Blasting Results

Since 2006, there have been 1318 blasts (until 30/09/2024) at TCM.

Table 1 below displays the peak ground pressure and overpressure values recorded and dated at the compliance monitor on Coomalgah property during the quarter.

TCM overpressure and ground vibration for the quarter was compliant and did not exceed the blasting criteria declared in the project approval and Blast Management Plan (BMP).

Table 1 - Max Peak Overpressure and Ground Pressure for the Quarter

Monitor Location	Date	Max. Peak Overpressure (dB)	Criterion (dB)	Date	Max. Peak Ground Pressure (mm/s)	Criterion (mm/s)
Coomalgah	21-08-24	106.3	120	02-08-2024	042	10

Air Quality Monitoring

Dust Deposition Gauge Results

Standard Australia AS/NZS 3580.10.1:2016, "Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric Method," classifies deposited dust as insoluble solids. Therefore, TCM tests air quality monthly at mine-owned sites for indicative purposes, to infer compliance, against the limit of 4 g/m²/month.

Table 3 shows deposited dust gauge results over 12 months. All the dust monitors are located on project related or WHC owned land; as such compliance criteria (4g/m²/month) do not apply. While deposited dust trends remain steady during the reporting period (refer graph in *Appendix B*), some monitors are displaying non-mine related particulate matter deposition more regularly than others. Non-mine related particulate matter could be attributed to organic matter (such as leaves, mice, frogs, insects or bird faeces that fall in to the bottles), or they may be in farming locations, so during some months dust levels may be higher due to harvesting. To mitigate contamination from bird faeces, spikes have been added to the top of each dust gauge unit to deter birds from perching.

Table 2 - Deposited Dust Gauge Results [g/m2/month]

MONTH	TEMPLEMORE (EB-4)	BOLLOL CREEK STN (EB-5)	AMBARDIO (EB-6)	TARRAWONGA (EB-7)	PINE GROVE (EB-9)	TARRAWONGA MINE (EB-10)	TARRAWONGA MINE (EB-11) ¹	TARRAWONGA MINE (EB-14)	TARRAWONGA MINE (EB-15)	JERALONG NORTH (EB-16)
Oct-23	0.5	1.3	1.1	1.5	0.5	2.6	3.3	2.2	1.9	2.0
Nov-23	0.3	0.7	0.4	0.6+	0.6	0.8	2.0	3.2	1.0	1.2
Dec-23	1.6	1.5	0.7	0.4+	1.2	0.8	3.1	4.7+	2.9	0.5+
Jan-24	0.3	1.2	0.9	1	1.2	1.9	2.3	2.1	2.2	1.1
Feb-24	0.8	0.4	0.8	0.6	0.6	1	3.4	3.7	1	0.7
Mar-24	0.8	2.8	1	2.7	0.8	0.6	4.2	5#	9#	1.6
Apr-24	0.4	2.3	0.9	0.4	0.8	2.2	4.4	3.9c	3.1	0.6
May-24	N/A	0.9	0.6	0.6	0.4	1.6	5.2	2.6	1.0	0.8
Jun-24	1.5	0.2	0.4	0.2	0.4	0.5	7.4	4	0.7	1
Jul-24	1.5	1.2	0.3	0.4	0.7	0.6	5.5	4.2	1.7	0.5
Aug-24	1	1.5	0.2	0.2	0.7	0.3	3.6	3.3	0.2	0.6
Sep-24	1	1	0.2	0.4	0.2	2.1	4.7	2.8	0.9	0.5
12 MONTH ROLLING AVERAGE	1.9	2.3	1.2	1.2	1.2	1.3	4.3	3	1.2	1.4

Analysis done/ field comments on these bottles concluded that they are contaminated, often with low ash/insoluble matter. Often noted on field sheets are bird droppings, insects and plant matter. These are now excluded from the average calculation.

+ bottles not compliant for DDG testing, so results are not to be assessed against criteria alone. Still used to calculate average

¹DDG bottle on the fenceline between TCM and BCM ROM.

^{N/A} bottle was removed with a fence by land occupant. No result available.

High Volume Air sampler (PM10) Results

The High Volume Air Sampler (HVAS) installed at Coomalgah property monitors levels of Particle Matter under 10 micron (PM₁₀). It operates for 24hr every 6 days. **Table 3** shows that all 24hr average values recorded for this quarter are below 50µg/m³.

Table 3: HVAS PM10 24hr Quarterly Average levels

Date	24hr averaged PM10 (µg/m ³)	Criterion 24hr average (µg/m ³)	Comments
4/07/2024	8.0	50	
10/07/2024	3.4		
16/07/2024	6.4		
22/07/2024	5.3		
28/07/2024	2.5		
3/08/2024	4.0		
9/08/2024	4.2		
15/08/2024	1.9		
21/08/2024	19.3		
27/08/2024	19.5		
02/09/2024	20.0		
08/09/2024	19.9		
14/09/2024	4.2		
20/09/2024	13.4		
26/09/2024	14.8		

Real-time Air monitoring (PM₁₀)

A real time air quality unit (TEOM) is located at the “Flixton” property to monitor PM₁₀ levels in ambient air, as per the current Air Quality and Greenhouse gas Management Plan. It is an operational management tool and dust levels nearing or reaching the nominated criteria will trigger actions onsite to assess the source of dust and modify operations if it is determined to be related to Tarrawonga operations.



Figure 1: TEOM installed at Flixton property

Three portable dust (PM₁₀) monitors have been utilised since Nov 2018 to improve the real-time dust monitoring network and assist the operation to mitigate any potential dust generated by the operation.



Figure 2: Portable and real-time dust monitor installed at TCM in November 2018

Water Monitoring

Groundwater

Routine groundwater monitoring results undertaken between March 2023 and March 2024 are shown in **Table 4** (refer to graphs in *Appendix C*).

Table 4: Groundwater results summary

Site	Date	SWL (mbgl)	pH (units)	Elect. Conductivity (µS/cm)
MW1	September 23	5.61	6.98	3,390
	December 23	5.45	7.24	2,810
	March 24	6.33	7.25	3,260
	June 24	6.36	7.22	3,880
	September 24	2.61	7.53	3,470
MW2	September 23	3.58	6.31	778
	December 23	3.61	7.15	729
	March 24	4.6	6.89	716
	June 24	4.58	7.64	831
	September 24	4.22	7.18	669
MW4	September 23	8.31	6.62	2,990
	December 23	8.24	7.49	3,100
	March 24	8.89	7.43	3,190
	June 24	8.78	7.51	3,680
	September 24	8.66	7.70	3,410
MW5	September 23	2.29	6.97	1,862
	December 23	2.47	7.52	2,004
	March 24	3.46	7.57	1,321
	June 24	3.61	7.85	892
	September 24	3.50	7.69	2,420
MW8*	September 23	12.54	Casing blocked	Casing blocked
	December 23	Sampling error		
	March 24	12.91		
	June 24	Sampling error		
	September 24	12.70		

*Bore scheduled to be assessed by consultant using a borehole camera, and any problems rectified this year.

Surface Water

Water storage onsite is expected to be sufficient for at least the next 12 months. TCM undertook one controlled discharge event on August 6th-August 9th. An approximate 7ML was discharged through Licenced Discharge Points at this time.

TCM has recorded 475.4mm of rain thus far in 2024.

Table 5: Annual rainfall

2023	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	21.2	11	169.8	37.2	0.8	35.8	8	11.4	2	18.6	123	79.4	518.2
Cumulative (mm)	21.2	32.2	202	239.2	240	275.8	283.8	295.2	297.2	315.8	438.8	518.2	
2024	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monthly Rain (mm)	53.6	56.8	26	84.6	39.2	54.2	45.2	62.4	53.4				
Cumulative (mm)	53.6	110.4	136.4	221	260.2	314.4	359.6	422	475.4				

Evaporator Fans

During the reporting period, Tarrawonga did not use the Evaporator fans to evaporate mine water. TCM may consider utilising the evaporator fans should the wet weather persist throughout the rest of the year.

Rehabilitation and Clearing

Rehabilitation

By the close of September 2024, TCM prepared approximately 12.3Ha of Landform, reaching almost half of the target 25Ha for the calendar year for landform establishment.

Trees on the both the North and South rehab areas continue to successfully establish and grow on our historical rehabilitation areas. Ecologists are scheduled to come during October to assess the success rate of rehab, and the previous years monitoring report has assisted in building a maintenance schedule on the rehabilitation areas for the coming years.



Figure 3 South Rehab (Sept 30) after cover crop and seed (planted June 2024) have sprouted.

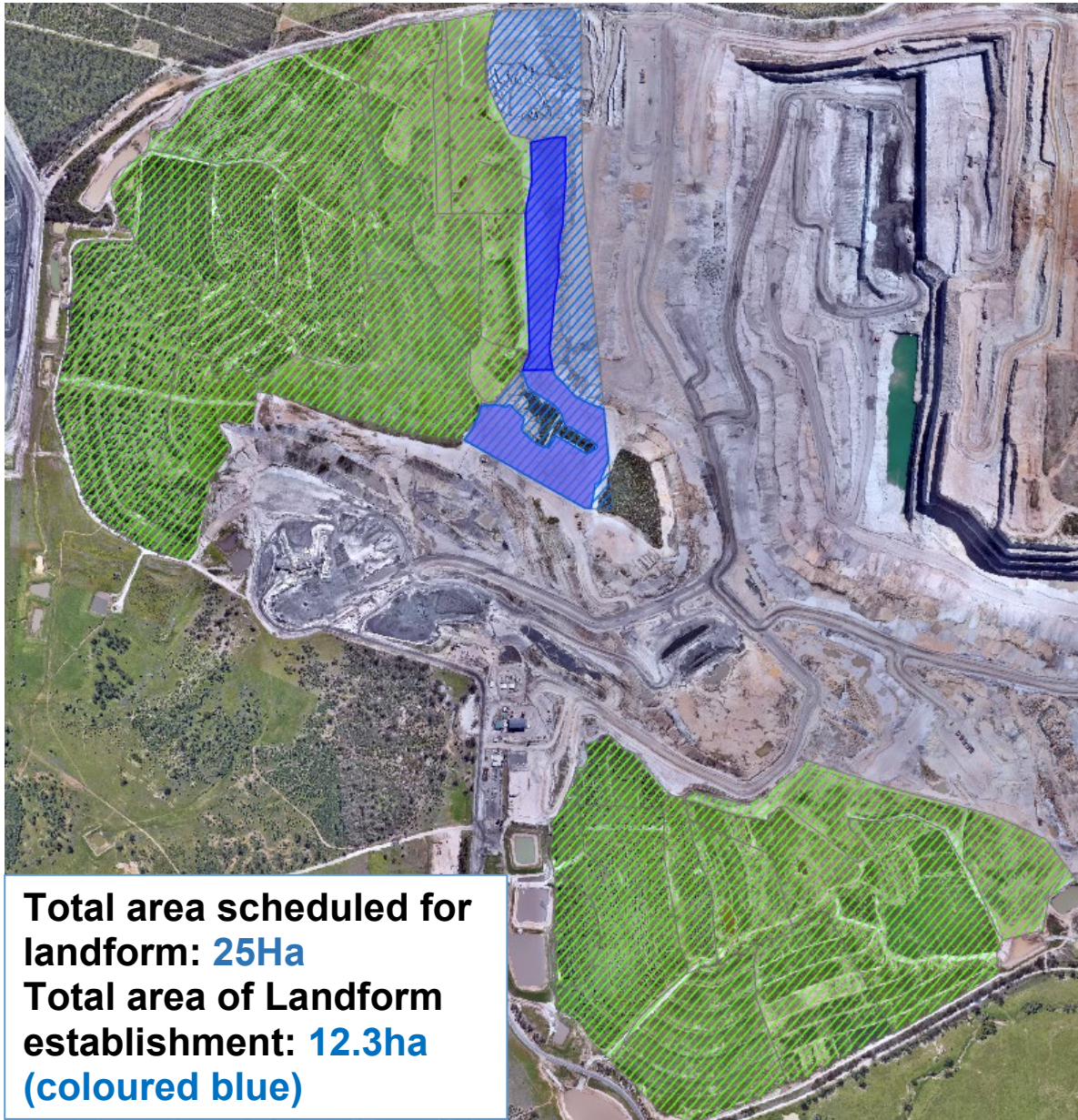


Figure 4: Rehabilitation areas that reached Landform Establishment during reporting period

Clearing

No Clearing activities occurred during the reporting period. Clearing will not begin again until the clearing period between February and April, 2025.

Complaints

No complaints were received during the reporting period.

Environmental Management Plans

TAR Management Plans

TCMs Traffic Management Plan was reviewed and submitted for approval after the consultation process. An RFI has been received by the DPHI which is currently being addressed.

TCMs Air Quality Greenhouse Gas Management Plan was submitted for approval during the reporting period. An RFI has been received by the DPHI which is currently being addressed.

TCMs Heritage Management Plan was approved by the DPHI during the reporting period.

The Rehabilitation Management Plan is still undergoing internal review, with the main purpose being to transfer to the new WHC Management Plan template.

BTM Strategies

The BTM Water Management Strategy has been submitted to and approved by the Department during the reporting period.

The BTM Air Quality Management Strategy is undergoing internal review and is expected to be submitted to the Department by the close of the year.

Annual and Compliance Reporting

Annual Review and Annual Return Reports

The Annual Return and Annual Review periods are coming up during the next reporting period (December-March).

Tyre Disposal

TCM completed its a round of tyre disposal in July, 2024. TCM disposed of 94 HV tyres through in-pit disposal. These were disposed of in the TN Pit as per approval conditions, and this will be reported in the Annual Return for the EPA in January 2025.

Annual Compliance EPBC statement

The Annual Compliance EPBC statement was submitted to DAWE in June 2024.

Annual National Pollutant Inventory (NPI) and Greenhouse Gas Emission (NGERs) Reports 2024

TCM has submitted information for the NPI and NGERs reports and these were approved and reports are expected to be finalised in the coming weeks.

Audits - Compliance

Tarrawonga underwent their Independent Environmental Audit and Independent Biodiversity Audit, last year. These audits are required by the Project Approval PA11_0047, and EPBC Act respectively. These audits were carried out in June 2023.

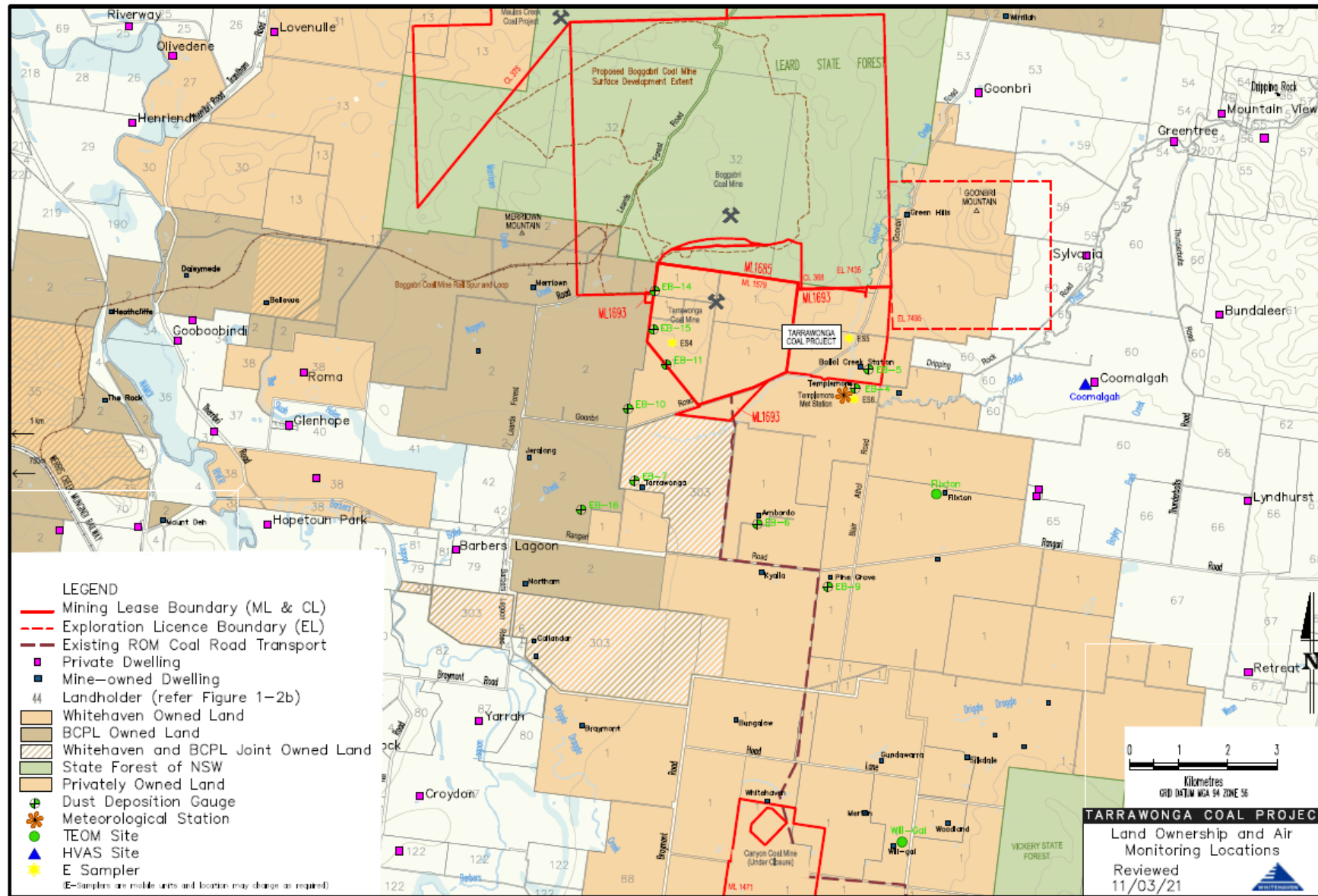
The next audit will be conducted on a three year cycle, expected in June of 2026.

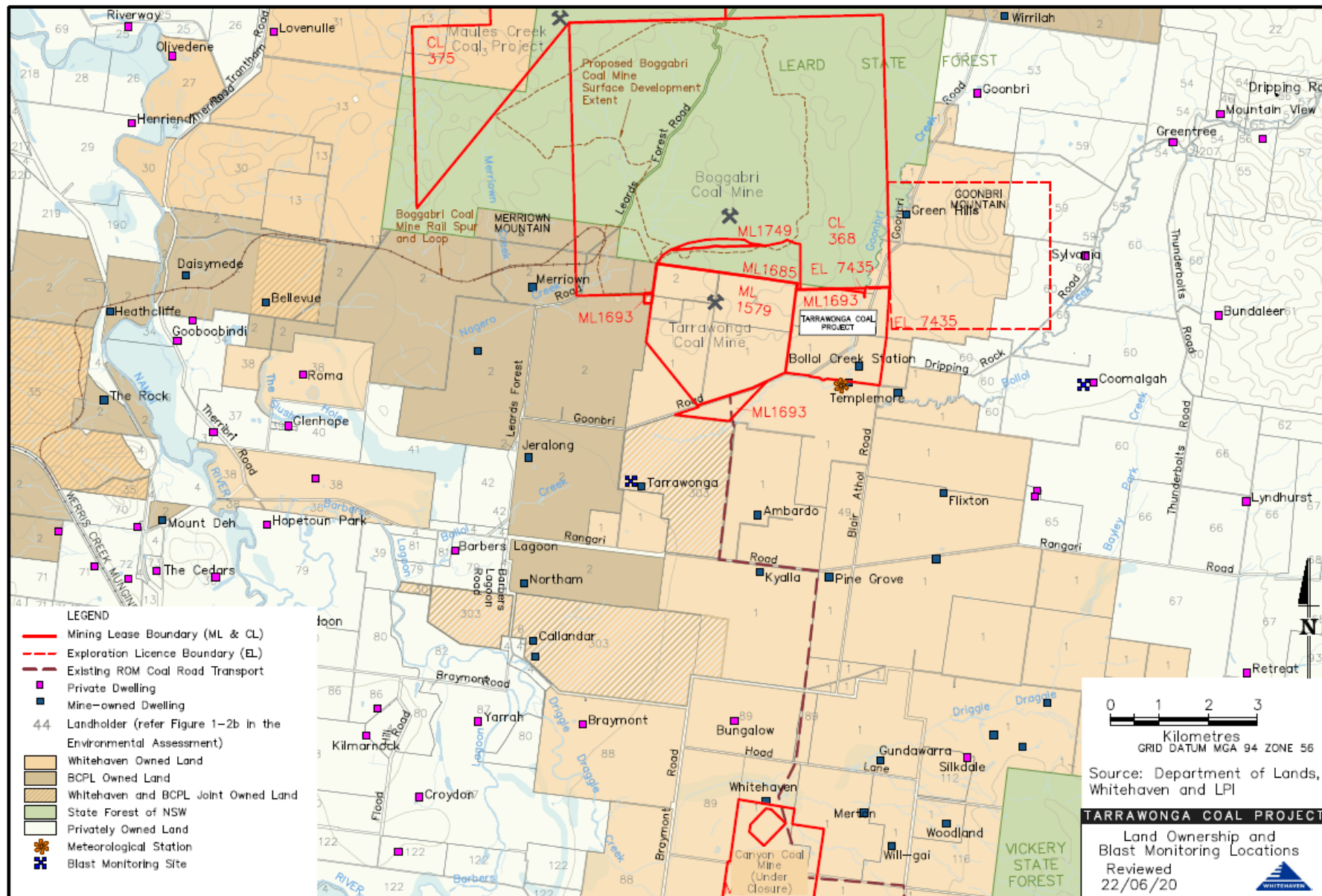
Approvals and Licencing

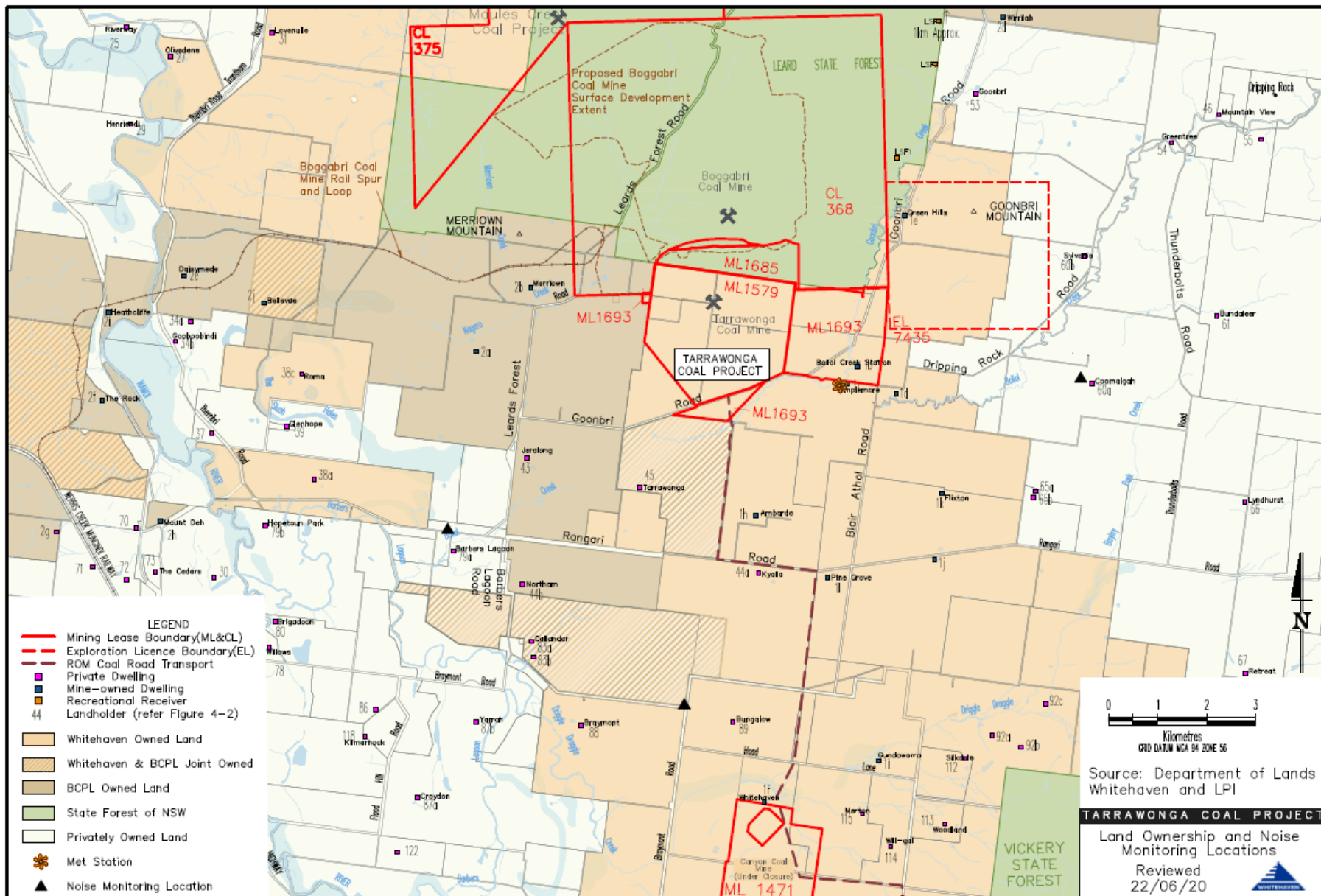
Tarrawonga's MP11_0047 Modification 10 was approved on the 19th October 2023. This modification is in relation to Haul truck hours. Tarrawonga has updated and submitted relevant management plans (Noise and Traffic) to align with this modification. These hours were enacted on the 12th of December 2023, and communication was sent out to stakeholders regarding this.

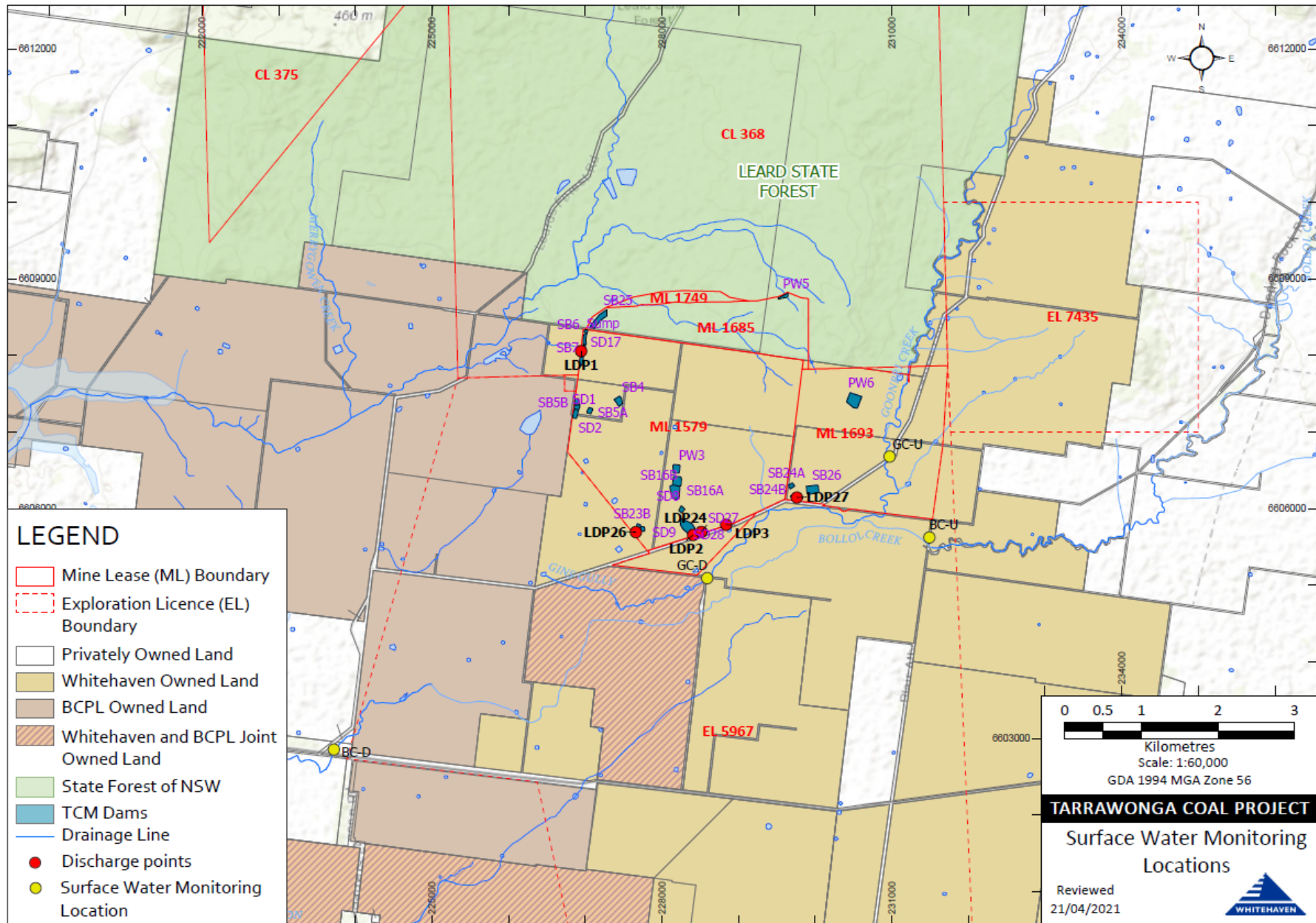
No additional modifications are expected in the foreseeable future.

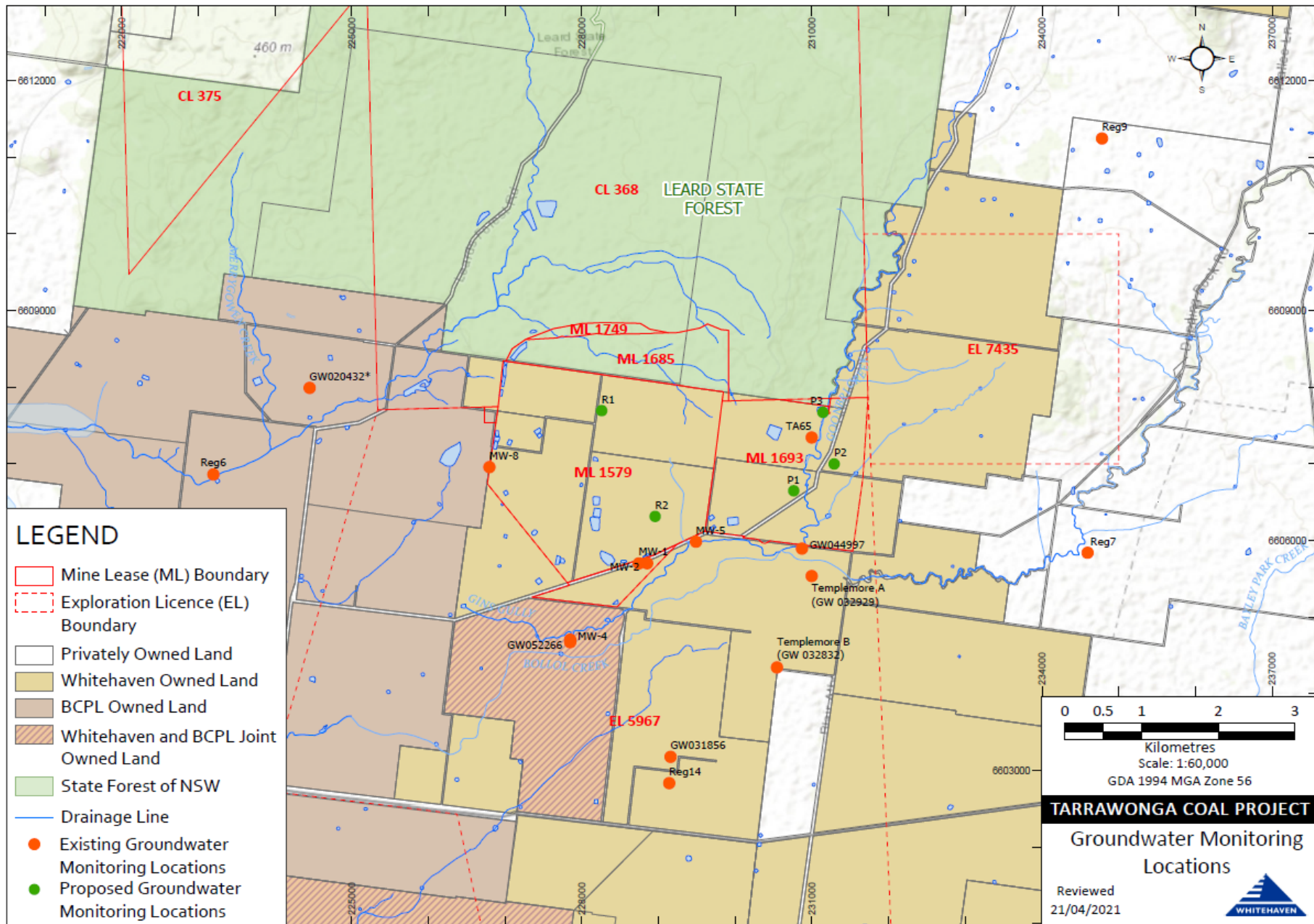
Appendix A





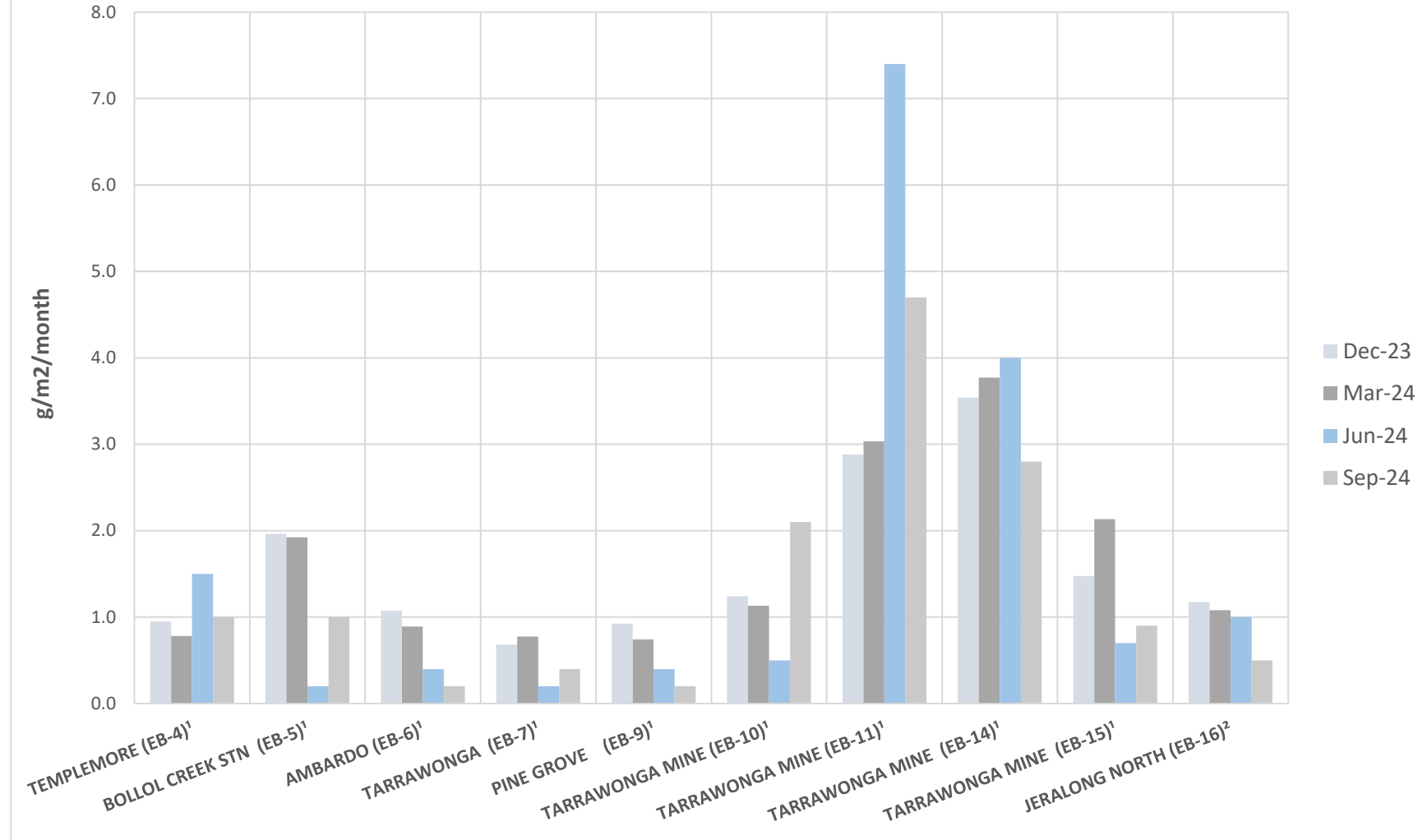




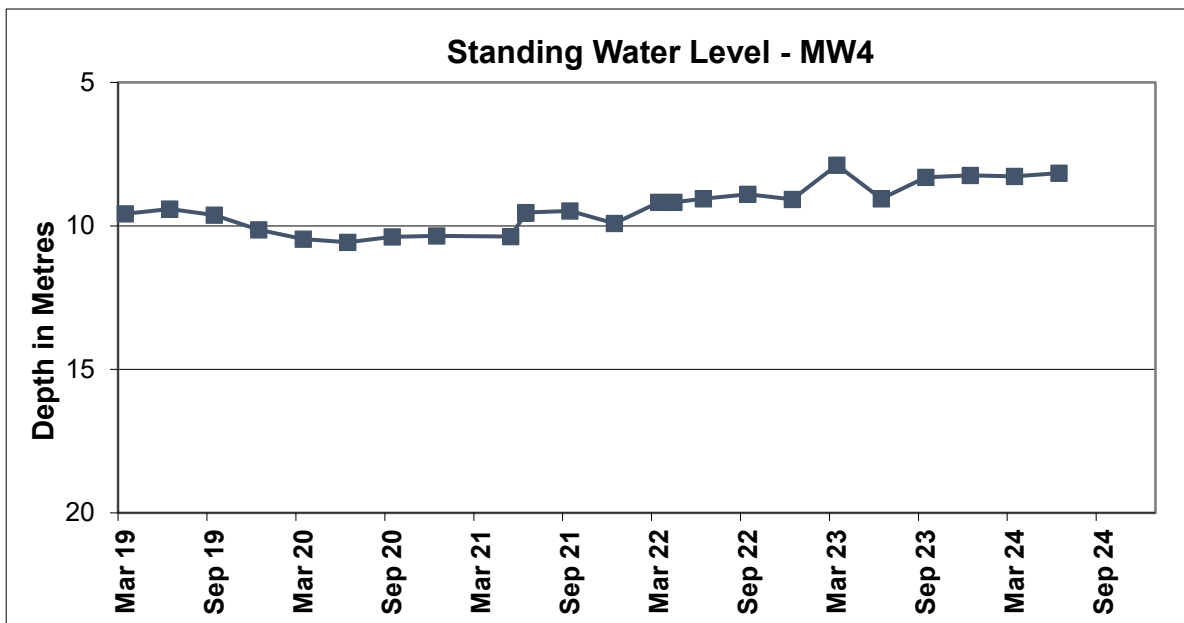
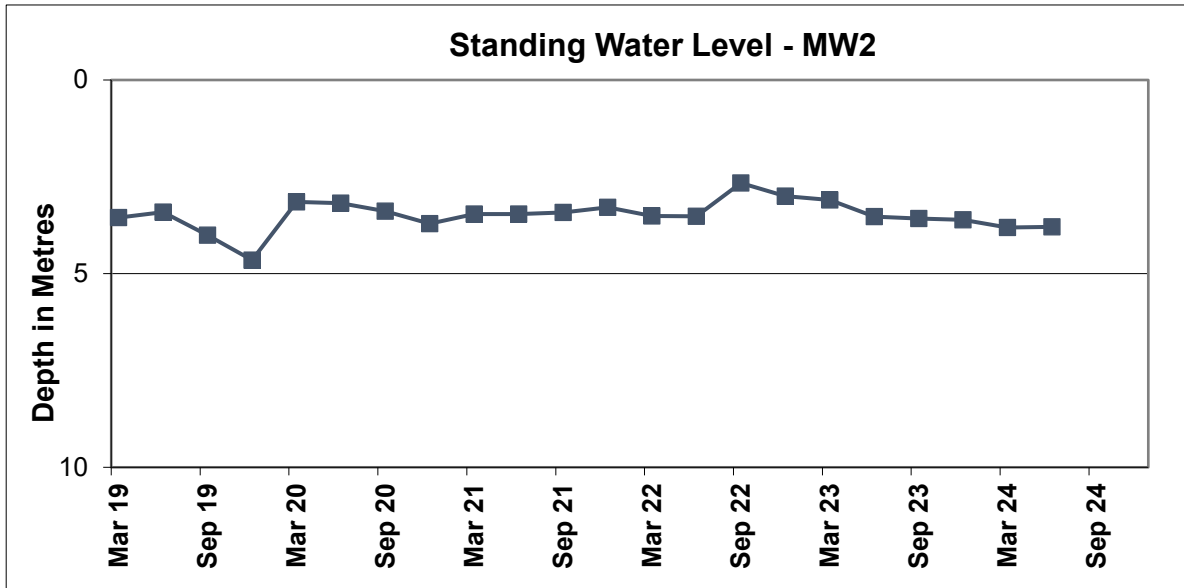
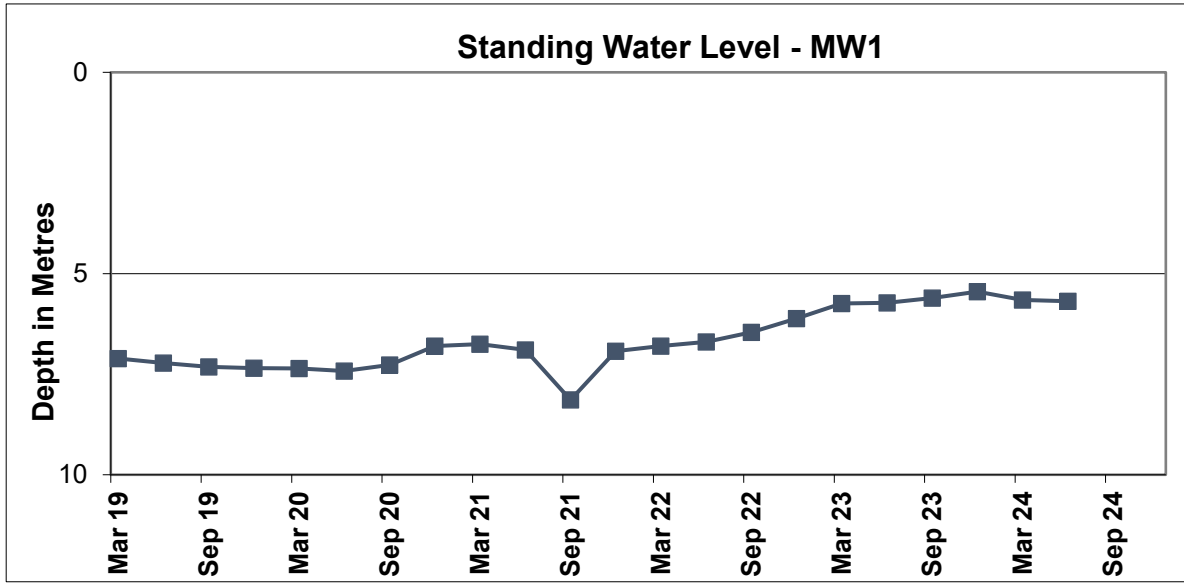


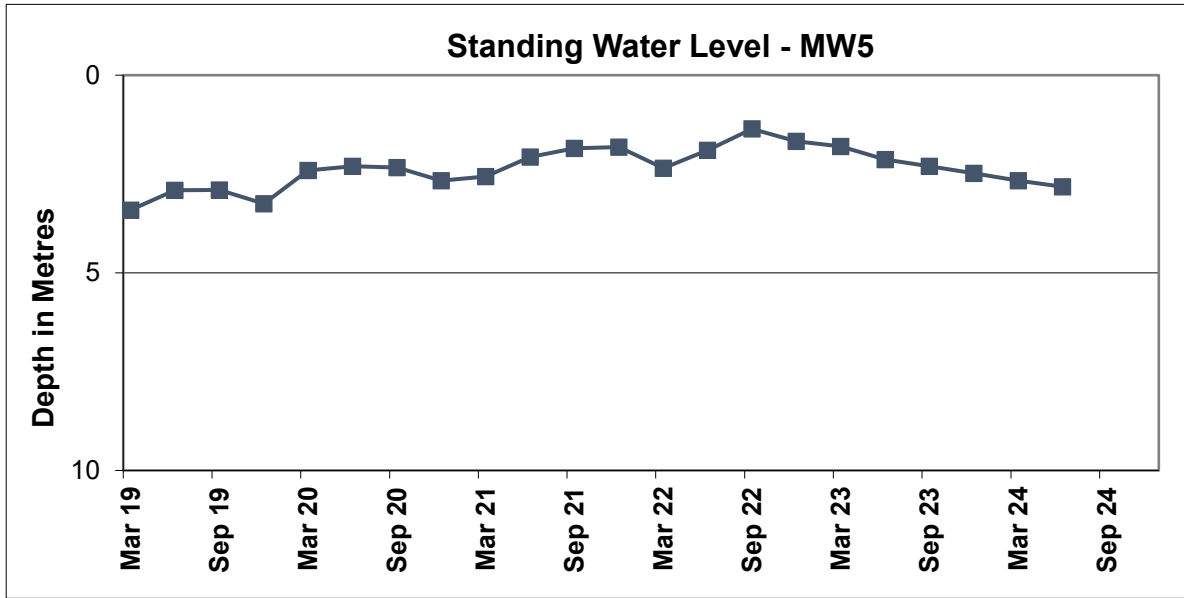
Appendix B

Deposited Dust Gauge Results- Quarterly rolling average [g/m²/month]



Appendix C





- Minutes:** Minutes of the 78th Meeting of the Tarrawonga Coal Community Consultative Committee held at the Boggabri Golf Club, Kamilaroi Highway, Boggabri on Wednesday 13 November 2024 commencing at 10.05 am.
- Members Present:** Elizabeth O’Hara (EOH) – Community Representative, Matt Hollis (MH) – Tarrawonga Coal Mine, Maddi Wright (MW) – Tarrawonga Coal Mine, Wade Hudson (WH) - Gunnedah Shire Council
- Apologies:** Lloyd Finlay (LF) – Community Representative, Cr J. Jansson – Narrabri Shire Council, Cr E. Towns – Narrabri Shire Council, Gunnedah Shire Council delegate*, Darren Swain (DS) - Whitehaven Coal.
- Independent Chair:** Michael J. Silver OAM (MJS)

**Council’s delegate has not been appointed.*

Agenda Item	Discussion	Action/By Whom
1.	Welcome and Apologies – MJS welcomed everyone to the meeting.	
2.	Acknowledgement of Country - The Chair acknowledged the Traditional Owners of the land on which the meeting is being held and their continuing connection to land, water, and culture, paying respects to their Elders past, present and emerging.	
3.	Declaration of pecuniary or other interests – EOH has a small package of WHC shares. MJS expenses as chair are borne by TCM.	
4.	Minutes from Previous Meeting – Members noted that the minutes of the meeting of 28 August 2024 were approved on 25 September 2024 and appropriately reflected what was discussed.	
5.	Business Arising EOH questioned how the auditing of offsets in the Tarrawonga Coal Mine Offset Management Plan (OMP) will be implemented. MH advised that the auditing process is fully outlined in the draft Plan.	
6.	Actions from Previous Meeting 6.1 TCM to explore feasibility of presenting a slide in future of injuries falling / rising. <i>A table outlining the current safety performance was presented as part of the Proponent’s Report.</i> 6.2 That the Tarrawonga Coal Mine Rehabilitation Objectives be presented at the October 2024 CCC meeting. <i>A comprehensive presentation on the mines Rehabilitation Objects was presented as part of the Proponent’s Report.</i>	
7.	Correspondence Nil	
8.	Environmental Monitoring Report <i>A copy of the Quarterly Environmental Report is attached to the minutes.</i> The Environmental Monitoring Report was distributed to members with the agenda prior to the meeting. No matters in the report were raised for discussion.	
9.	Proponent’s Report <i>A copy of the Proponent’s Report is attached to the minutes.</i> MH commenced the presentation by providing members with an update on the mine’s current safety performance. with a Total Recordable Incident Frequency Rate (TRIFR) sitting at zero. He did highlight a safety incident on 16 September 2024 where workers were working at height without appropriate fall protection. He then stepped the Committee through the Significant Incidents graphs noting that green are hazards whilst orange is a breach. MH added that were incidents are identified corrective action is initiated to avert the risk or hazard. He proceeded to provide examples of risks and hazards that may be identified, and the mechanisms employed to reduce or mitigate the risk. In particular, he highlighted the use of radar monitoring in areas that are subject to failure due to ‘ground strata issues’, and the establishment of ‘no go zones’ in high-risk	

hazard locations. These actions are supported by daily inspections of hazard locations and specialist geological advice. This addressed the Action relating to safety performance.

EOH questioned what punitive action is taken where a breach of safety occurs. MH responded that it is dependent on the nature and seriousness of the breach and may result in reinforcement of induction procedures up to employment dismissal and in the case of contractors, dissolution of the contract.

MH provided an overview of community involvement and support noting that \$217,566.43 in donations and sponsorship has been provided to the local community in the first quarter of 2025.

In respect of Monitoring and Compliance, MH advised that there had been no compliance issues during the period with one controlled water discharge on 6 August 2024.

MH advised that in respect of rehabilitation the current focus is on land forming and shaping in the northern rehabilitation sector. He indicated that the rehabilitation work is now linking up with the Boggabri Coal boundary. The rehabilitation process being followed is July to December – land forming with top soiling and seeding undertaken in the autumn, generally March to May. WH enquired as to the success rate, to which MH responded that this strategically staged process provides the best outcome.

On other environmental matters, MH advised there had been no complaints during the period. He noted there had been reasonable success with the control of feral pigs using the poison 'Hoggone'. He also noted that considerable eradication work was being undertaken to control outbreaks of Patterson's Curse throughout the rehabilitation areas.

In response to the Action requesting presentation of the Tarrawonga Coal Mine Rehabilitation Objectives, MH provided a detailed overview of the rehabilitation objectives. He stepped the Committee through the various critical areas of the rehabilitation process and explained the rational and impact/issues to be addressed. He highlighted the overarching criteria that must be addressed and advised that the Final Void Closure Management Plan is currently being prepared by consultants.

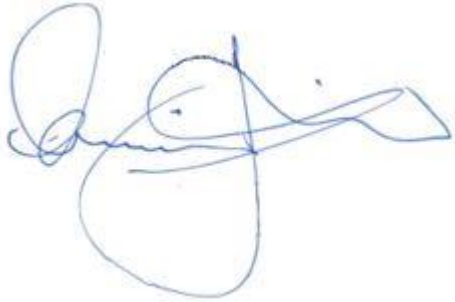
MH advised that a minimum of 257 hectares of Class 3 agricultural land will be established. The landform created will be consistent with the surrounding landform and the ecosystem function will be restored. In respect of structures, some may remain whilst others will be removed. The treatment and management of these structures will be discussed with the Regulator. In respect of disposal of 'rejects', these will be buried at an adequate depth.

MH did point out that some objectives may change over the next two years given possible variations in approach to closure actions. MH added that in the last quarter of 2024, twenty-six hectares of rehabilitation will be land formed, with the last tyres to be disposed of in the pit under the current approval.

	<p>MH advised that excess sediment water captured onsite will be discharged off site after treatment in accordance with Environmental Protections License requirements. The extent of any discharge depends on the volume of water stored onsite and the ongoing management of water on the site to maintains site demands for dust suppression activities. WH asked, what implications the Vickery-Tarrawonga pipeline would have? MH responded that it would provide greater flexibility over water management. WH enquired whether there were long term plans to extend the pipeline to Maules Creek? MH indicated there is an existing approval for a pipeline from Vickery to Tarrawonga and that the pipeline linking Maules Creek Mine to Tarrawonga and Vickery mines is a concept that is still subject to approval within a future project approval modification for both Maules Creek and Tarrawonga Mines, if the concept were to proceed.</p> <p>EOH noted that Maules Creek Coal has a high priority water licence with the potential to feed water from that licence into the pipeline. She indicated that there is considerable community concern that water from this licence will be pumped to Tarrawonga.</p> <p>MH advised that the Tarrawonga mine has no surface water extraction approval but does have an interception license where groundwater is taken by virtue of the mining operations whilst both Vickery and Maules Creek Coal have existing surface and groundwater water entitlements. He indicated that water from the former Canyon mine void – now part of the Vickery mine operation was previously trucked via road transport to Tarrawonga during extended dry period in 2019. The existing approved Tarrawonga to Vickery mine pipeline will permit the transfer back and forward to Tarrawonga in the future thus reducing the risk in future dry times. Ultimately the post closure Tarrawonga mine void may be used for storage of surplus water from Vickery Mine and consequently to derisk the need to buy water in the future.</p>	
10.	<p>Tarrawonga Coal Mine Offset Management Plan (OMP)</p> <p>MH provided an update on consultation associated with the OMP. He encouraged members with matters of concern to send comments to tarrawongaenvironment@whitehavencoal.com.au . MH advised that considerable consultation has been undertaken with various government agencies.</p>	
11.	<p>Other Agenda Items</p> <p>Nil</p>	
12.	<p>General Business</p> <p>Nil</p>	
13.	<p>Next Meeting</p> <p>The next meeting is scheduled for 12 February 2025.</p>	

Meeting closed at 11.17 am.

Approved:



Michael J. Silver OAM
Independent Chair

17 November 2024

Appendix 1: Actions

Action No	Description	Date Raised	Page No	Status
1	TCM to explore feasibility of presenting a slide in future of injuries falling / rising	14.02.24	3	COMPLETED 13.11.24
2	TCM to provide link to Sustainability Report	14.02.24	3	COMPLETED 15.05.24
3	MW to investigate if Social Impact Plan was available	14.02.24	4	COMPLETED 15.05.24
4	MJS to advise Ms Druce that the proposition should be discussed with NSC and RFS.	15.05.24	2	COMPLETED 06.06.24
5	That the Tarrawonga Coal Mine Rehabilitation Objectives be presented at the October 2024 CCC meeting.	29.08.2024	3	COMPLETED 13.11.224