

**Minutes:** Boggabri Coal Community Consultative Committee  
Held at the Boggabri Golf Club

**Thursday 15<sup>th</sup> February 2024**

**Members Present:** Alex Williams (AW) – Boggabri Coal, Cr Cathy Redding (CR) – Narrabri Shire Council, Elizabeth O’Hara (EOH) – Community Representative, Michelle Henry (MH) – Narrabri Shire Council, Mitchum Neave (MN) – Community Representative, Phil Lancaster (PL) – Community Representative, Richard Gillham (RG) – Community Representative, Roselyn Druce (RD) – Community Representative, Stewart Dunlop (SD) - Boggabri Coal  
Susie Pym (SP) – Boggabri Coal

**Apologies:** Nil

**Independent Chair:** David Ross (DR)

**Independent Secretary:**

Rhonda Smith (RS)

<b>Agenda Items</b>	<b>Who to Present</b>
1. Welcome, Introductions and Apologies	DR
2. Declaration of Pecuniary or other interests	DR
3. Confirmation of the Minutes of the previous meeting – 26 <sup>th</sup> October 2023	DR
4. Business arising from the previous minutes – Action List Distributed	DR
5. Correspondence	AW
6. Company Reports and Overview of Activities	SD, AW
7. General Business	ALL
8. Next Meeting – <b>Thursday 16<sup>th</sup> May 2023</b>	

Agenda Item	Discussion	Action/By Whom
1.	<b>Welcome, Introductions and Apologies</b> – DR welcomed everyone to the meeting	
2.	<b>Declaration of pecuniary or other interests</b> – DR noted that he is paid a fee to chair these meetings as is RS for typing the minutes. RG’s property falls within the zone of affectation.	
3.	<b>Confirmation of the minutes of the previous meeting</b> – Previous minutes were accepted.	
4.	<p><b>Business Arising</b></p> <p>EOH – Re tenement 355, can we expect to see a new modification for mining in that area?  SD – Project approval currently covers this as it is within an exploration lease. For mining to occur in this area, the exploration lease would need to change to a mining lease – and that would need the approval of the landowner, Forest Corporation.</p> <p>RD - Is A355 in that biodiversity corridor being left alone?  SD – BCC is not planning to mine. Blue Area marked is the only area we are hoping to mine. They will leave corridor intact.</p> <p>EO- What is the nature of your correspondence with Forestry Corps?  SD- As we negotiate with them, we have to discuss things like compensation for lost timber harvesting.</p> <p>RD - Could we have a cross-section of proposed mine extension</p> <p>DR noted that, regarding tyre disposal, Tyre Stewardship Australia have indicated that they would be happy to attend the next Joint CCC meeting. DR also noted that he had spoken to the EPA about their involvement at the next Joint CCC. Asked members if they wanted EPA representation at Joint CCC to discuss EPA regulatory processes re tyre burial and/or the proactive policies that the EPA has with respect to recycling and circular economy.  Members said that they would like both parts of the EPA to be present.</p> <p>MN – Gunnedah Shire Council needs to be present at the Joint CCC meeting as they are keen on tyre recycling, locally.  DR – GSC are represented on the Tarrawonga CCC and therefore, have an open invitation to attend the Joint CCC.</p> <p>AW spoke to the Bushfire Management Strategy, which is contained within the mine’s Biodiversity Management Plan. AW continued, talking about the carbon cap that the mine works to. This is 0.0254 t of CO<sub>2</sub> emission predicted based on past 4 years data.  MN – Can you buy carbon credits from other mines who are planting trees to offset mining? Or use your own offsets?  SD – No</p>	<p>ACTION 1 – BCO to develop slide of cross-section of proposal extension</p> <p>ACTION 2 – BCO to email to members page numbers of Plan relevant to bushfire management.</p>

5.

## Correspondence

MN – Is your biodiversity corridor permanent?  
SD – There is no intent to mine in the corridor.

AW discussed the correspondence that has taken place between the mine and government organisations.

### Modification 8 Amendment

Final Assessment Report has been released by Department of Planning, Housing & Infrastructure (DPHI). AW observed that the next stage is the finalisation of the Commonwealth EPBC assessment and decision.

EOH – Commented on how quickly the modification was approved by the Department of Planning over Christmas Holidays. The community was devastated that the decision was made so quickly, without reference to Net Zero legislation passed in December; first we'd heard of a 'final' void where 'water will equilibrate with the void' 300 years after mining finishes. When is mining expected to finish- NZEM team have modelling out to 2042?  
SD- 2036

RD - A355 lease expired in 2018. Why was this?  
SD – Not sure that was the case.

**Resource Regulator** – has approved Rehab objectives and final landform submission.  
Submission of Rehabilitation Cost Estimate – still awaiting approval.

### NSW Department of Planning, Housing and Infrastructure

RD – was Swift Parrot data entered into Bionet by ecologists?  
AW – Yes, the data was entered.

AW noted that a dust exceedance in December was reported to the Department. The dust exceedance was due to the Duck Creek Bushfires, which the DPHI declared the period the bushfires took place as an extraordinary event.

**Narrabri Shire Council** – Ongoing consultation continues on the mine's housing commitment.

A discussion took place on the mine's commitment to building 20 houses in Narrabri and where this is at. SD noted that the mine is not starting any construction in Narrabri but rather, concentrating on its commitments at Glentarkie. He noted that this is a cost issue. However, he is hoping that plans for Narrabri will be drawn up by the end of the year.

ACTION 3 – BCO to follow up details of A355 lease.

6.

## Company Reports and Overview of Activities

SD discussed with the committee the key projects for the mine. These included:

- The solar farm's construction.
- Glentarkie's continued construction.
- Replacement of the main mine water dam (MW5).
- Ongoing EA negotiations, which will be voted on next week.

SD observed that MW5 will be replaced with a new dam that will be placed south of the mine's progression and will be slightly smaller than the existing dam.

### Water Take Volumes

SD – The mine hasn't had to draw from groundwater sources over the last few years, but we have commenced using bores to top up dams in the main administrative area.

RD – Will there be any more ground water coming into the pit?

SD – No, our model doesn't indicate this.

RD – Will BCO have enough water on site for mining or will you have to take from the river?

SD – We rely on onsite and bore water, even during drought.

### Air Quality Monitoring

EOH – Would re-establishing air monitors more widespread for more monitoring be possible?

AW – BCO is not required to do more monitoring than is currently the case and the monitors are very expensive. The mine pays to contribute to regional monitoring.

DR – Informed new members that he chaired the EPA's Namoi Region Air Quality Advisory Committee during the last drought. Government members of that committee, including Leanne Graham, used to attend Joint CCC meetings. Her analysis indicated that air quality issues had very little to do with the mines and instead, dust was often coming from the Great Australian Bight.

### 2023 HV Tyre Disposal

SD - BCO is a member of NSW Minerals Council Tyre Stewardship Working Group. We are still in discussions with a service provider to take tyres. The mine is planning to trial off-site disposal of up to 20% of the mine's tyres in 2024.

EOH – How much cost is involved with burying tyres?

SD – It's an operational cost –. Noted that there are no financial benefits for the mine once tyres have been recycled. Recycler would receive any profit.

ACTION 4 – DR to discuss with the EPA the potential for a future presentation at a Joint CCC meeting re- air quality monitoring.

	<p>MN – So of your 300 tyres, just 60 would be recycled and 240 buried in ground. Gunnedah Shire Council have some ideas to recycle tyres, locally. Reminded mine of his efforts to get a program set up locally to recycle.</p> <p>SD – Our preference would be to have something locally and we welcome any discussions.</p> <p>PL – Where could you get rid of the recycled rubber?</p> <p>SD – This a matter for the recycler but would typically include Tennis courts, roads, benches.</p> <p><b>Tree Clearing Program</b></p> <p>AW noted that tree clearing commenced on the day of the meeting.</p> <p><b>Archaeological Salvage Program</b></p> <p>BC54 Recommended in January 2024. AW noted that a need for further works has been identified, the scope of works to be determined by the archaeologist’s report that is due later in the year.</p> <p>MN – Community concerns about the RAPs and whether they are appropriate representatives of the local community.</p> <p>RD – Concerned RAPs are not from Country and worry artefacts might be destroyed.</p> <p>SD –Can make recommendations to add to the list and update. We will come back to BC54 later in the year. Don’t have to be clearing for probably 2 years.</p> <p><b>Sponsorship</b></p> <p>SD discussed the sponsorships undertaken in 2023.</p> <p>RD – What is the unallocated / discretionary donations made up of.</p> <p>SD – This amount is made up of various small donations for \$1000, \$2000 etc.</p> <p>A discussion then took place on the lack of dialysis machines in local hospitals, a subject that MN has been raising for the last six months. Both NSC and GSC see this as a problem. RD suggested that BCO could be involved in funding a dialysis machine. She also noted that no one in the community appears to know what this would cost.</p> <p>SD would look into the matter further but noted that the mine does not generally get involved in funding government front line funded departments.</p>	<p>ACTION 5 - MN to approach BCO re local tyre recycling opportunity when timing is appropriate.</p> <p>ACTION 6 – SD will report back to MN the process for amending the RAP list.</p> <p>ACTION 7 – BCO to provide email address used for sponsorship applications to members.</p>
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<p><b>7.</b></p>	<p><b>General Business</b></p> <p>MN – Is there any chance that we can have a larger print on the graphs as some members are struggling to read</p> <p>MN – Is there going to be a super pit? SD – No.</p> <p>MN- Would like to see Red Chief Aboriginal Council involved in the committee. He will talk to new CEO and ask if he wants to be involved. SD – I am happy to meet with him.</p> <p>AW informed the committee that here have been administrative updates to the Noise, Blast, Social Impact, Air Quality Greenhouse Gas, and Water Management Plans.</p> <p>MN - Are you sharing water with Tarrawonga? SD – No</p> <p><b>Decarbonisation Projects 2024</b></p> <p>SD then shared with members the mine’s 2024 plans to incorporate decarbonisation into the value chain. There are 4 projects all of which are at a feasibility stage, except for the Solar Farm which is currently undergoing planning approvals. The 4 projects are:</p> <ul style="list-style-type: none"> <li>- The solar farm, which is already in progress. The mine is also looking at the installation of a battery to store power.</li> <li>- Rail-Veyor – a light rail system to transport mined material. This would take four to five trucks out of use. This system is not currently operating anywhere in Australia.</li> <li>- Carbon and Agriculture Feasibility Study – the mine is exploring options for how its land can be used for farming and gain carbon credits from doing so.</li> <li>- Hydrogen Injection Study – a study will be undertaken to explore how the mine can combine hydrogen with diesel in the combustion chamber of its mobile plant engines to reduce diesel consumption. SD noted that representatives from Japanese vehicle manufacturers will visit in March to discuss reductions in fuel consumption in mine vehicles.</li> </ul>	<p>ACTION 8– BCO to bring some A3 sized hard copies of presentation to next meeting.</p> <p>ACTION 9 - MN to arrange meeting with Red Chief new CEO and BCO.</p>
<p><b>8.</b></p>	<p><b>Next Meeting - 16<sup>th</sup> May 2024, commencing at 9.30 a.m. (Boggabri Golf Club).</b></p> <p>AW then spoiled DR’s announcement to the committee that, after 7.5 years chairing the BTM committees, he had informed the Department of Planning, Infrastructure and Housing that he was resigning. He thanked all members for their time and contribution through the years. Meeting closed 12.45 PM</p>	

**Appendix 1: Actions**

<b>Page</b>	<b>Action No</b>	<b>Description</b>	<b>Date Raised</b>
2	1	BCO to develop slide of cross-section of proposal extension	15 <sup>th</sup> February
2	2	BCO to email to members page numbers of Plan relevant to bushfire management. <b>Bushfire Management Plan is pg. 11-12 of Appendix I of the Biodiversity Management Plan.</b>	15 <sup>th</sup> February
3	3	BCO to follow up details of A355 lease.	15 <sup>th</sup> February
4	4	DR to discuss with the EPA the potential for a future presentation at a Joint CCC meeting re- air quality monitoring.	15 <sup>th</sup> February
5	5	MN to approach BCO re local tyre recycling opportunity when timing is appropriate.	15 <sup>th</sup> February
5	6	SD will report back to MN the process for amending the RAP list.	15 <sup>th</sup> February
5	7	BCO to provide email address used for sponsorship applications to members.	15 <sup>th</sup> February
6	8	BCO to bring some A3 sized hard copies of presentation to next meeting.	15 <sup>th</sup> February
7	9	MN to arrange a meeting with BCO and the CEO of Red Chief.	15 <sup>th</sup> February



# CCC Meeting February 2024

15 February 2023





# Agenda

February 2024



- Apologies
- Declaration of pecuniary interests
- Business arising from previous minutes
- Correspondence
- Company Reports & Overview
- General business & Consultation
- Next meeting

# Business Arising from Previous Minutes

Action	Action to be done	Status	Comments
1	TM to provide direct link to Audit and hard copy to MH	●	Provided
2	Boggabri Coal to ensure hard copies are provided to members.	●	Provided
3	DR to invite the EPA to the next Joint CCC meeting.	●	
4	Present carbon cap for mines and for BCOPL.	●	Slide 5
5	AW to provide a slide on the parrots and where they were.	●	Slide 6
6	AW to investigate feasibility of swift parrot data being uploaded.	●	Slide 6
7	BCOPL to provide Bushfire Management Plan.	●	Slide 4
8	AW and RG to give an update on nursing scholarship opportunity at next meeting.	●	Ongoing
9.	DR to organise further discussions at next CCC re Red Chief visiting a meeting.	●	

# Bushfire Management Strategy

## Biodiversity Management Plan

### Management strategies:

- Monitor and maintain equipment and areas where bushfire hazards are present to prevent and minimise the potential outbreak of bushfire.
- Communicate issues relating to bushfire management at toolbox meetings.
- Ensure that all Project personnel report any environmental incident involving fire or flammable liquids to the site supervisor as soon as practically possible.
- In the event of an accidental fire, implement the Incident Management Protocol.
- If controlled burning is required, implement mosaic burning to reduce the extent of any negative outcomes, provide refuge for wildlife and promote structural and species diversity.
- The timing of any burning will be determined based on fuel loads, vegetation maturity and weather/seasonal conditions; however, it will generally be undertaken in autumn to encourage native species recruitment.
- Source relevant permits and approvals before any burning event.
- Monitor the effects of the fire regime in the corridor for effects on biodiversity.

### Performance criteria:

- Accidental fires attributed to the Project occur are minimised.
- No significant reduction in habitat suitability for fauna or alteration to the composition or structure of native plant communities occurs due to inappropriate fire regimes.

## Carbon cap

Industry average emissions intensity has been calculated as 0.0653 t CO<sub>2</sub>-e/t ROM coal.

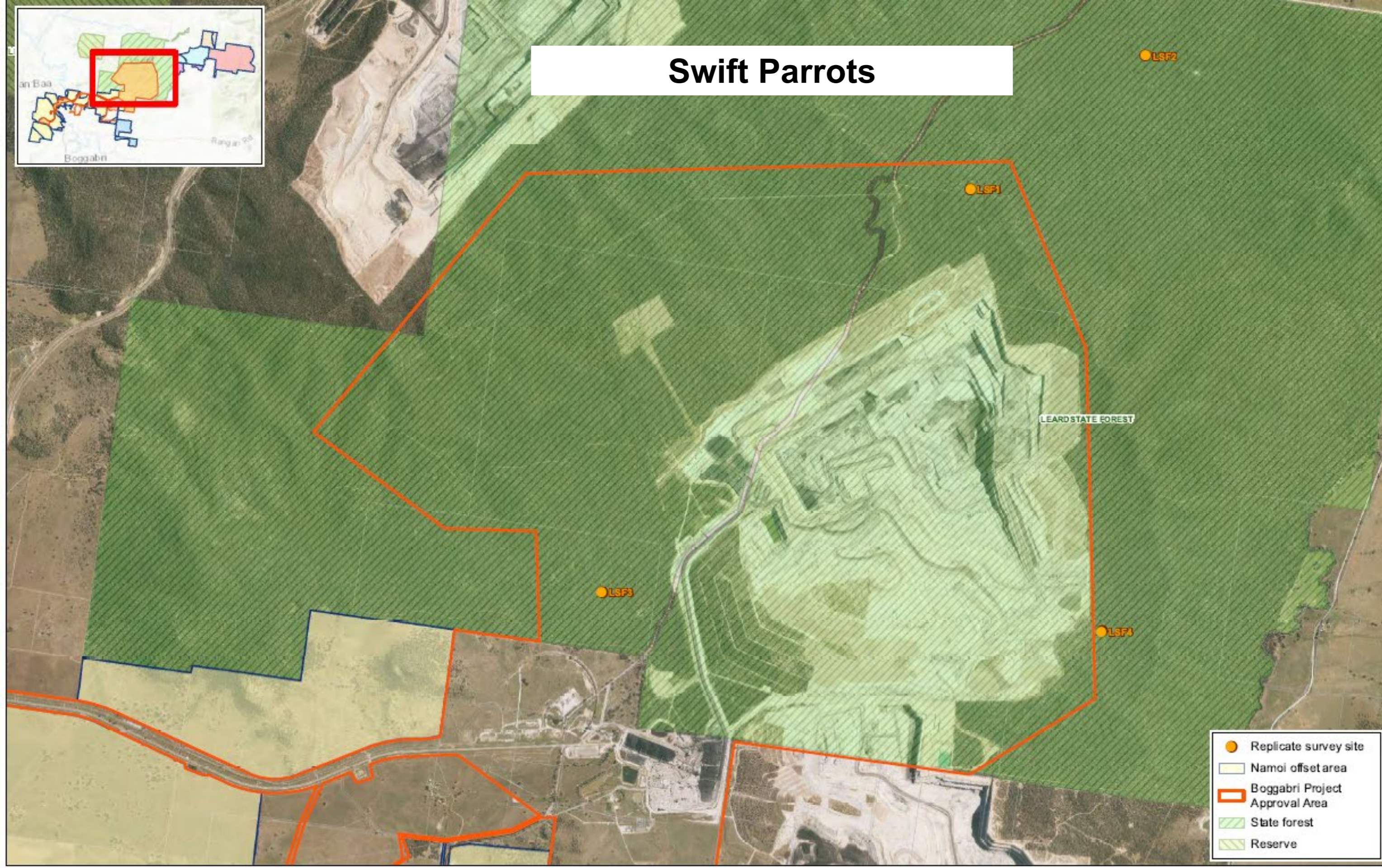
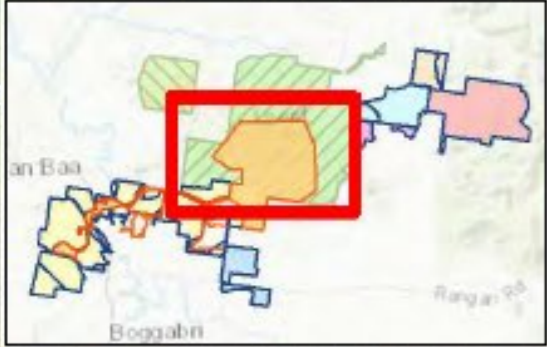
Boggabri Coal site specific emissions predicted to be 0.0254 t CO<sub>2</sub>-e/t ROM coal. Based on past 4 years data.

Clean air regulator has provided the methodology for each site to calculate their emissions

To be submitted and approved in April



# Swift Parrots



- Replicate survey site
- Namoi offset area
- Boggabri Project Approval Area
- State forest
- Reserve





idemitsu

# Correspondence





# Correspondence

## Mod8 Amendment Current Status

- Since the last CCC Meeting in October 2023, DPHI has released the final Assessment Report and Development Consent.
- All NSW State approved documentation can be found on the Planning Portal ([MOD 8 - Increase in depth of mining | Department of Planning Housing and Infrastructure \(nsw.gov.au\)](https://www.nsw.gov.au/planning-portal))
- Next stage is finalisation of the Commonwealth EPBC assessment and decision.
- Consultation continues with both the NSW DPHI and Commonwealth DCCEEW to finalise all approvals for MOD8.

## Correspondence

### NSW Department of Planning, Housing and Infrastructure

- Independent Environmental Audit received by Department of Planning – Assessment currently underway.
- Social Impact Management Plan submitted to DPE and stakeholders for consultation. Awaiting response.
- December dust exceedance reported. Noted as an extraordinary event due to Duck Creek bushfire

### Resources Regulator

- Resources Regulator have approved Rehab objectives and Final landform submission.
- Submission of Rehabilitation Cost Estimate- awaiting approval.

## Correspondence

### Environment Protection Authority

- Submitted monthly attended noise monitoring reports.

### Biodiversity Conservation Trust

- Regular progress meetings are being held regarding Conservation Agreements.
- BCOPL received extension until 30/06/2024 to execute conservation agreements.
- Conservation Agreements – Group 1 agreements signed and will be effective from 18 December 2023.
- Group 2, 3 and 4 currently under review with BCT.

## Correspondence

### Forestry Corporation of NSW

- Forestry drafting compensation agreement for A355..
- Finalising Forest Permit and Exclusive Use Rights.

### Department of Climate Change, Energy, Environment and Water

- Nil

### Narrabri Shire Council

- Ongoing consultation on housing commitment.

### NSW Natural Resources Access Regulator (NRAR)

- Q4 monitoring report submitted.



# idemitsu Company Reports and Overview





# 2023 Project Overview

## Production Targets

Metric	2023 Result
Total Waste (Kbcm)	60,327
Coal Mined (tonnes)	8.07 million
Coal railed (tonnes)	6.6 million

Metric	2024 Budget
Total Waste (Kbcm)	60,000
Coal Mined (tonnes)	8.5m
Coal railed (tonnes)	7.1m

## Key Projects

- Commissioning of replacement excavator and truck fleet.
- Expansion of workshop and warehouse.
- Solar Farm construction.
- Glentarkie construction.
- Replacement of main mine water dam.
- EA negotiations ongoing.





## Mine Water Dam 5 (MW5)

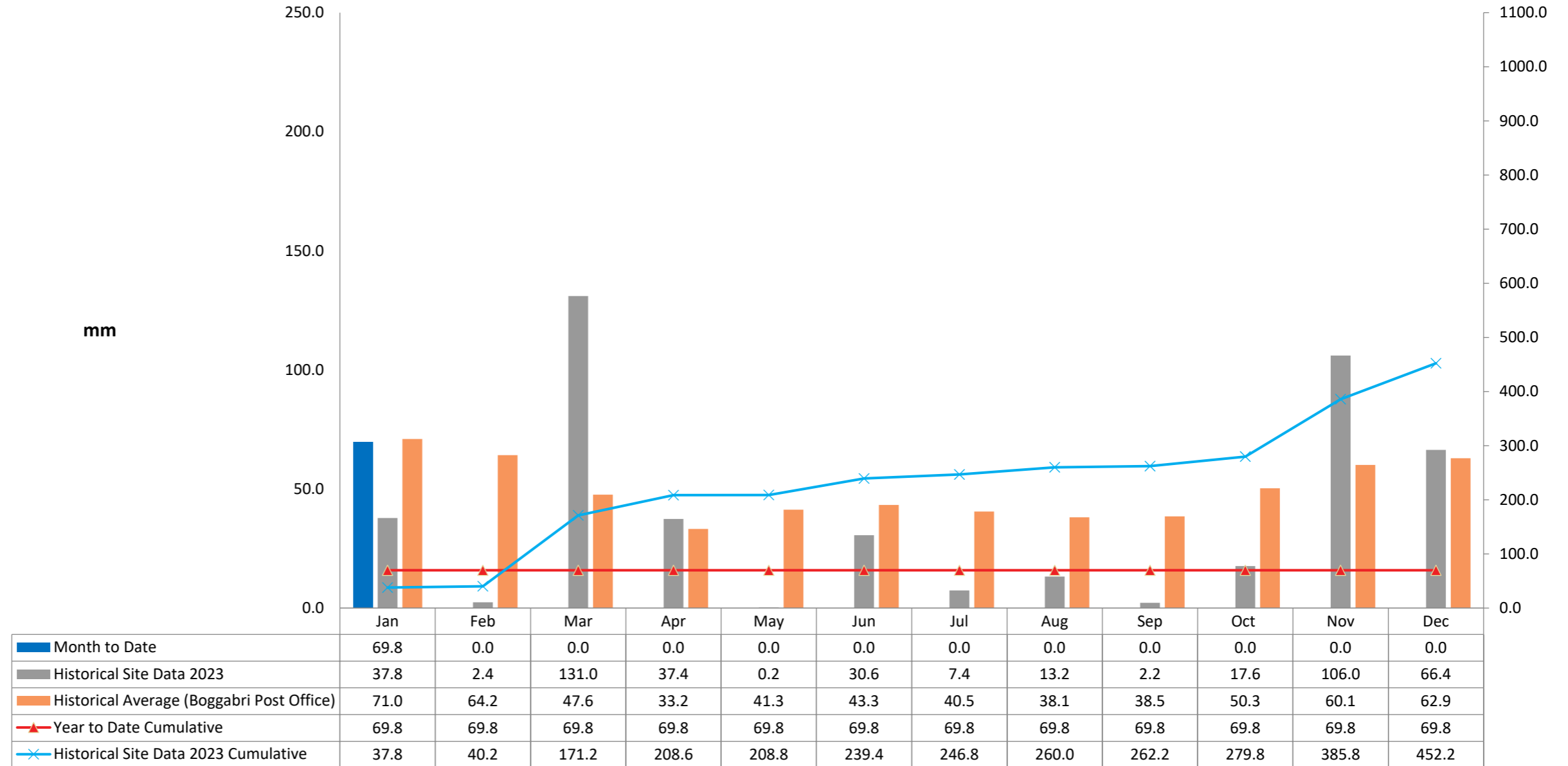
- Main water storage dam for the mine.
- Will be mined through in the coming years.
- Plan is to build replacement behind mine progression.
- Construction planned to commence in Q3 24



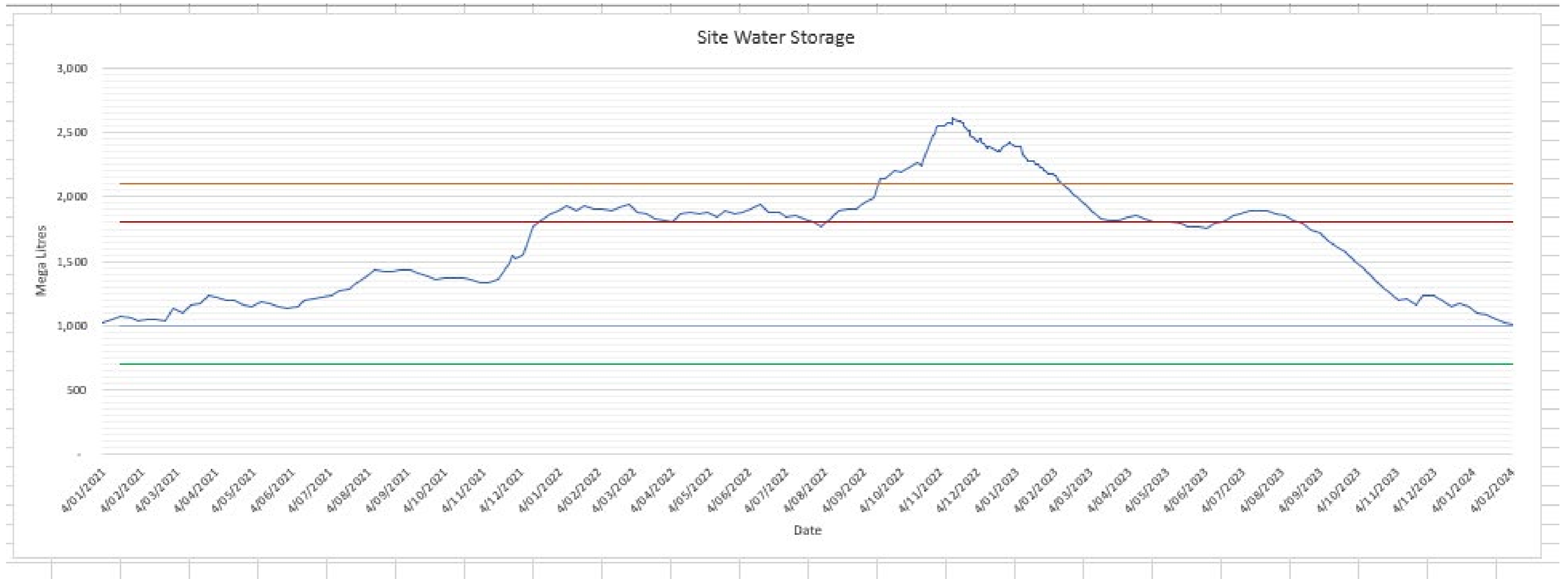
## 23/24 Water Year – Water Take Volumes

Surface Water Source	Licence held (ML)	Water take to date (ML)
Unregulated - Bluevale Water Source	250	19.23
Groundwater	Licence held (ML)	Water take to date (ML)
Upper Namoi Zone 4 Namoi Valley (Keepit Dam to Gin's Leap)	1028	24.5
Upper Namoi Zone 11 Maules Creek Groundwater source	20	0
Gunnedah Oxley Basin Murray Darling Basin Groundwater Source	842	0

## YTD Rainfall 2024









# Air Quality Monitoring

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Wilberoi East TEOM		
Date	PM10	
	24hr Ave	PA YTD PM10 ANN AV
1/12/2023	14.1	14.9
2/12/2023	5.1	14.9
3/12/2023	7.0	14.8
4/12/2023	12.0	14.8
5/12/2023	15.1	14.8
6/12/2023	31.3	14.9
7/12/2023	28.1	14.9
8/12/2023	24.8	15.0
9/12/2023	47.0	15.1
10/12/2023	52.6	15.2
11/12/2023	22.9	15.2
12/12/2023	37.7	15.3
13/12/2023	35.5	15.3
14/12/2023	33.1	15.4
15/12/2023	13.5	15.4
16/12/2023	24.6	15.4
17/12/2023	69.0	15.6
18/12/2023	81.9	15.8
19/12/2023	30.2	15.8
20/12/2023	No data	15.8
21/12/2023	5.9	15.8
22/12/2023	7.8	15.8
23/12/2023	11.1	15.8
24/12/2023	9.2	15.7
25/12/2023	11.2	15.7
26/12/2023	13.2	15.7
27/12/2023	30.6	15.8
28/12/2023	45.0	15.8
29/12/2023	26.9	15.9
30/12/2023	8.7	15.9
31/12/2023	12.3	15.8



## Bore Extraction Since Previous Meeting

Groundwater extraction began October 2023. Pumped 24ML to date.





## 2023 HV tyre disposal

- 2022 EPL reporting period – 300 Tyres buried
- 2023 EPL reporting period – 300 tyres buried to date

EPL reporting period is 11<sup>th</sup> Jan – 10<sup>th</sup> Jan

### Recycling update

- Idemitsu are a member of the NSW Minerals council Tyre Stewardship Working Group.
- BCO is planning to trial off-site disposal for up to 20% of our tyres in 2024.





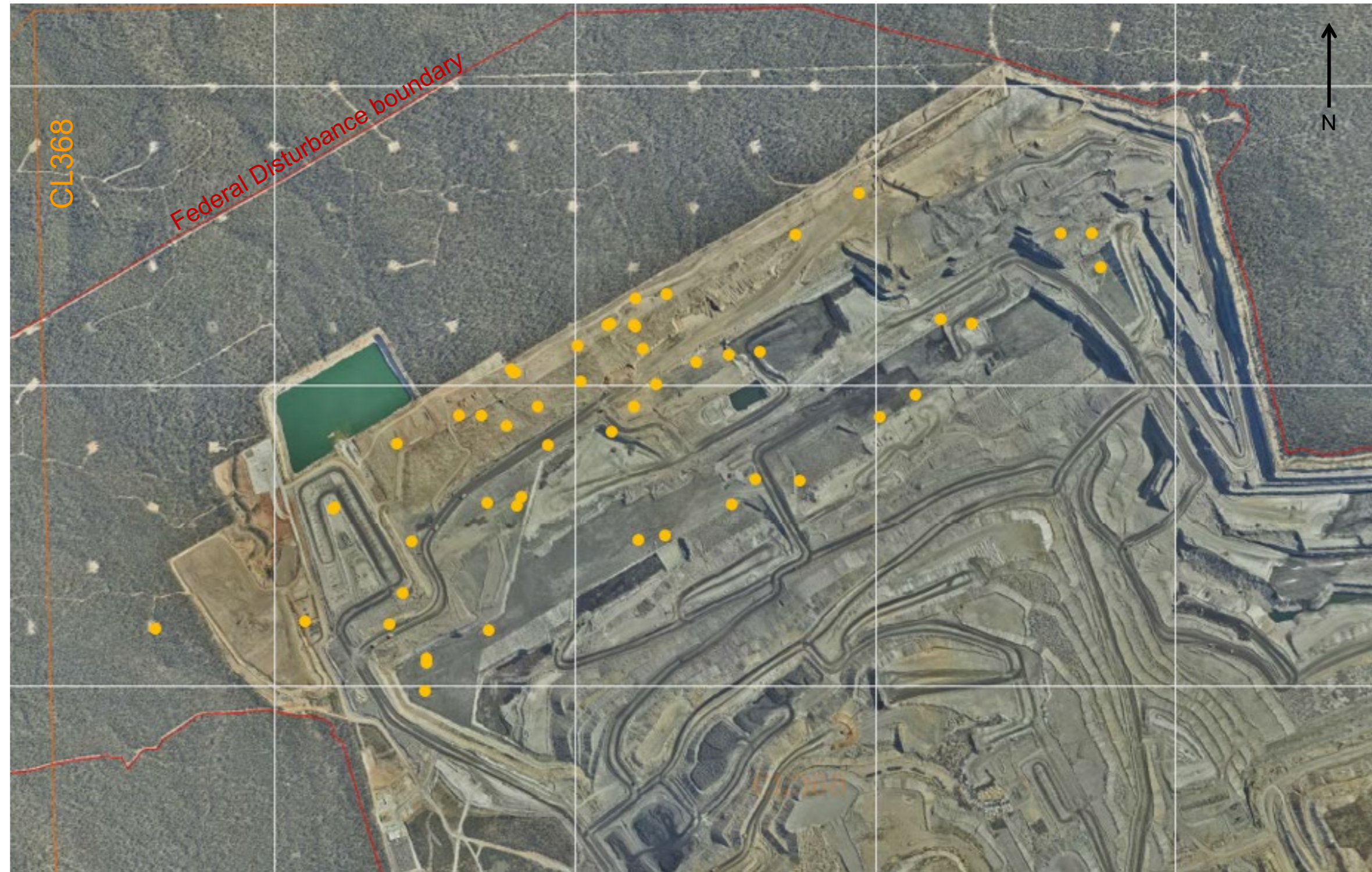
## Exploration Update

### 53 Holes Drilled 2023

39 chip holes – coal structure

14 core holes – coal quality

- 8 large diameter
- 6 HQ holes





## Exploration Update

### 51 Holes Planned 2024

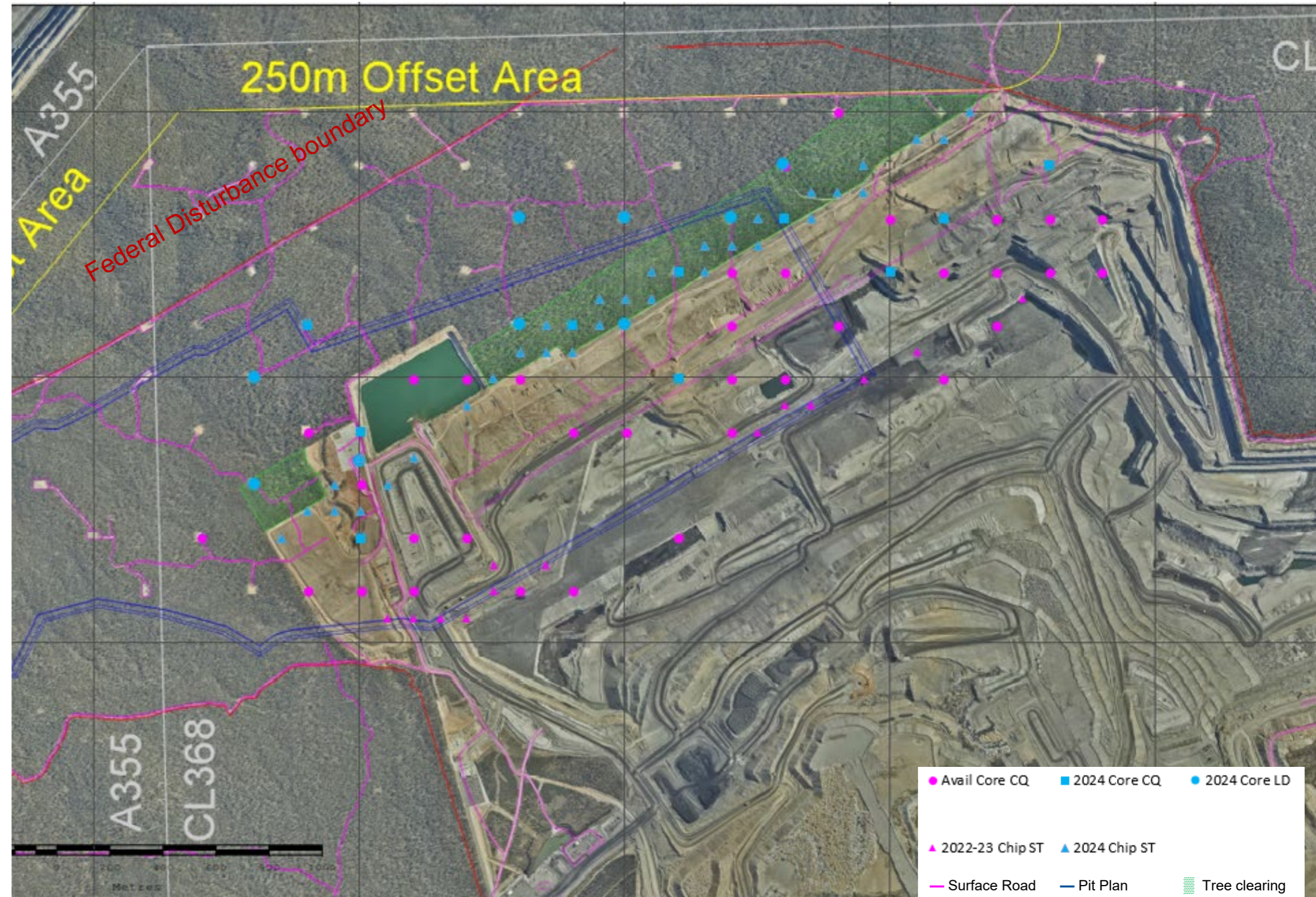
32 chip holes – coal structure

19 core holes – coal quality

- 9 large diameter
- 10 HQ holes

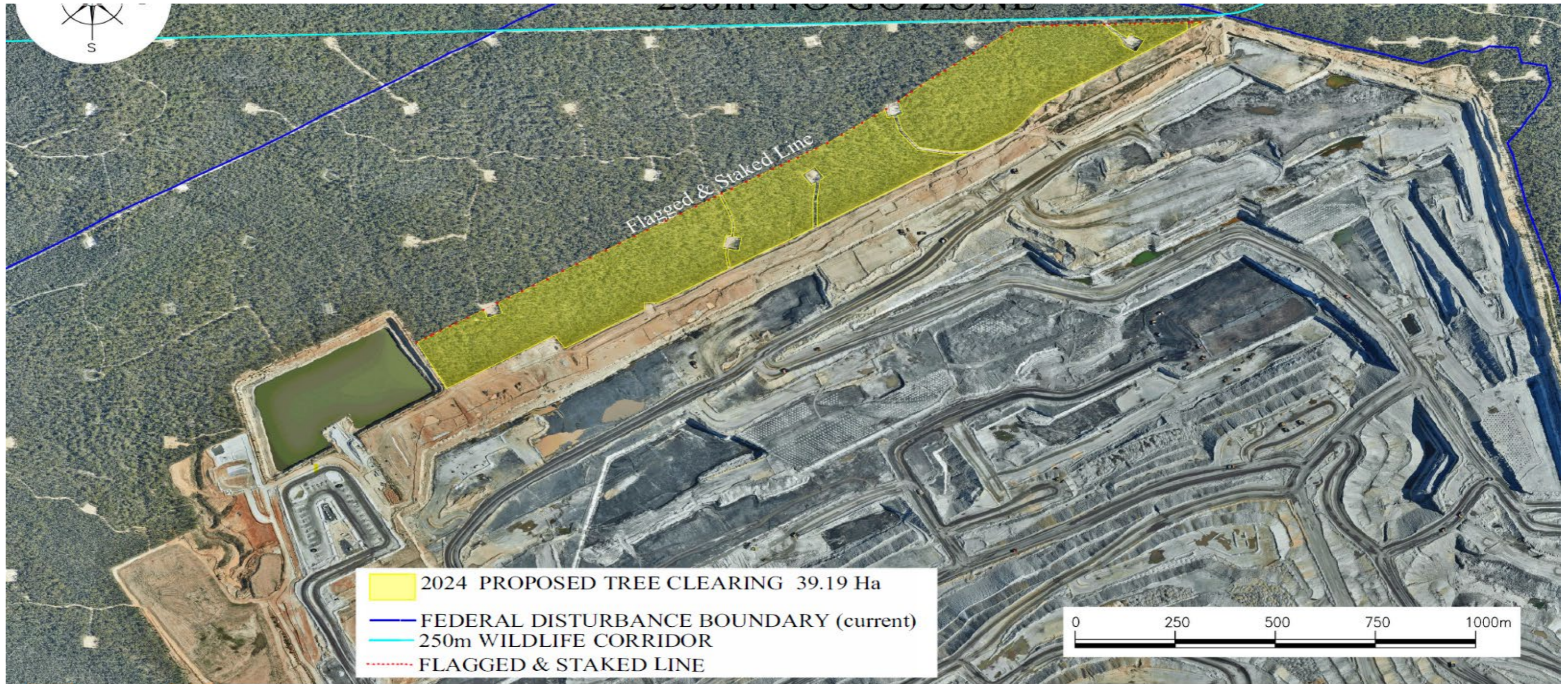
Additional holes if capacity is available

- 35 core holes
- 13 chip holes





# 2024 Tree Clearing Programme

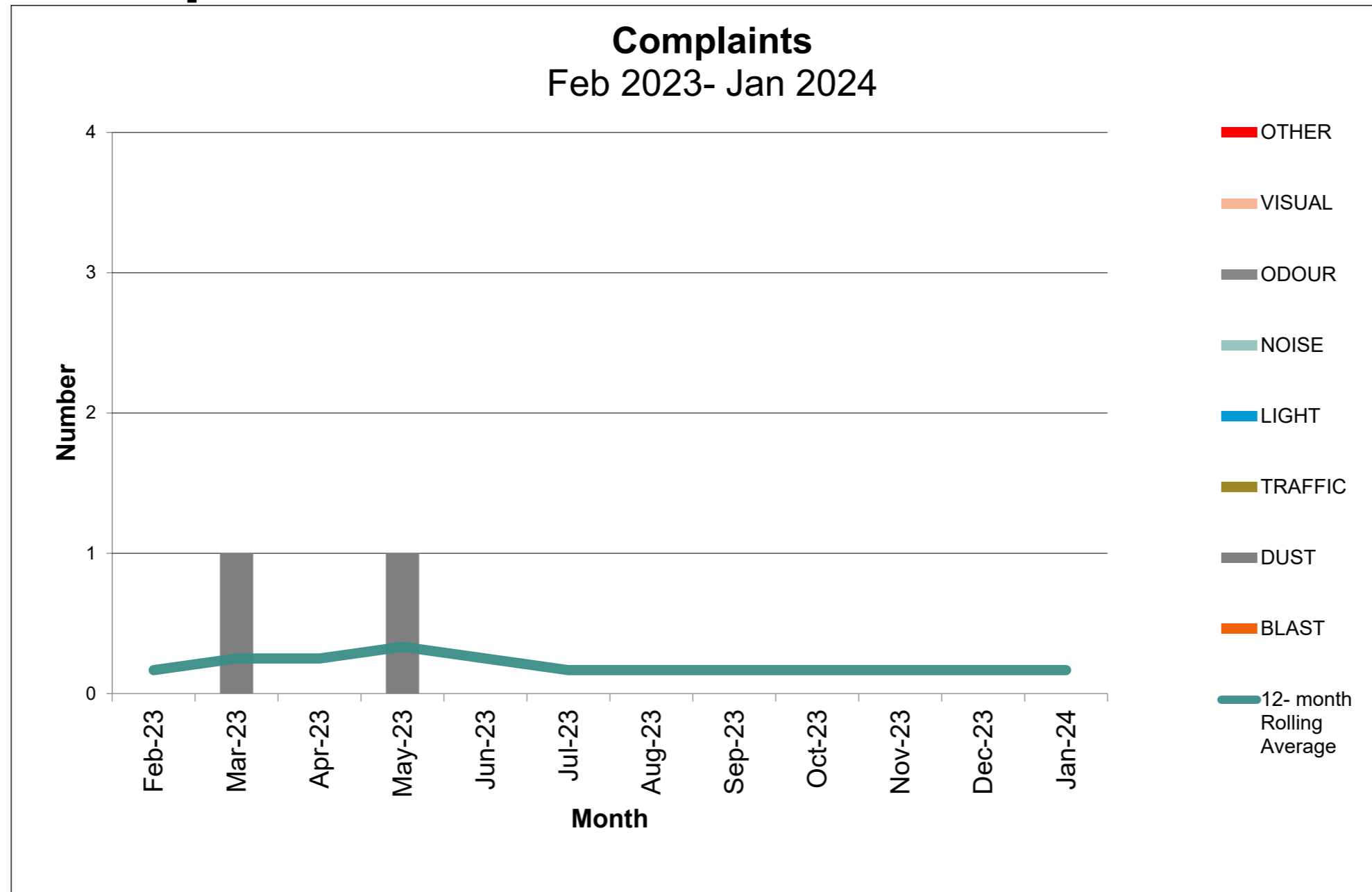




# Archaeological Salvage Program

- 2024 tree clearing has been signed off.
- BC54 archaeological salvage program recommenced January for three weeks.
- Need for further works has been identified, the scope of which will be determined by archaeologist's report.
- This work will resume later in the year.

# Community Complaints





## Sponsorship 2023

Formal process for reviewing and approving requests.

Sponsorship committee meets monthly to consider applications.

Discretionary sponsorships including

- Black “n” Blue Youth Centre
- Gunnedah District AFL
- Sacred Heart Boggabri

2023 Sponsorship	YTD
Westpac Helicopter Partnership	\$ 30,000
Gunnedah Show	\$ 20,000
Boggabri Drivers Camp fire	\$ 20,000
Maules Creek Campdraft	\$ 5,000
Narrabri Carp Muster	\$ 5,000
Boggabri Carp Muster	\$ -
Boggabri Rugby League	\$ 10,000
Manilla Show	\$ 4,545
Unallocated/Discretionary	\$ 95,959
<b>Total</b>	<b>\$ 190,504</b>

# General Business & Consultation





# Noise Management Plan

- Administrative updates
- Updated figures to reflect current pit shape
- Sensitive receptors updated
- Updated noise modelling to reflect deeper mining
- Updates to mobile plant monitoring requirements
- Attended monitoring methods updated

# Blast Management Plan

- Administrative updates, including tables and figures
- Updated figures to reflect current pit shape and monitoring equipment locations
- Updates to include neighbouring mines
- Inclusion of Leard Forest Road permanent closure
- Cumulative impacts section updated
- Updated roles and responsibilities



# Social Impact Management Plan

- Administrative updates
- Updated statistical information
- Submissions received from Narrabri Shire Council and Gunnedah Shire Council.
- 15/02/2024 last day to receive feedback.

# Air Quality Greenhouse Gas Management Plan

- Administrative updates, including tables and figures
- Air quality assessment criteria updated
  - PM2.5 monitoring added for 24hr average and annual
  - PM10 annual average updated
  - DDG removed from state approval but remains in EPL
- Updated air quality impact modelling to reflect mining deeper
- Incident reporting process added



# Water Management Plan

## Updates to both Ground and Surface Water Management Plans

- Administrative updates
- Updated figures to reflect current pit shape

Surface Water	Ground Water
Licencing updates – outcome of enforceable undertaking	Removed mined through monitoring bores ahead of mining
Increased monitoring points due to MOD 8	Increased monitoring bores/points due to MOD8

## Rehabilitation Strategy

- Consent condition requirement due to the NSW rehabilitation reforms
- Covers rehabilitation requirements for the project approval area – outside of the mining lease (rail load out, haul road, overpass etc.)
- Similar document to Rehabilitation Management Plan – includes objectives and requirements for rehabilitating the site

- *Note: BCO must still prepare and implement a Rehabilitation Management Plan in accordance with the conditions imposed on the mining lease(s) associated with the development under the Mining Act 1992*



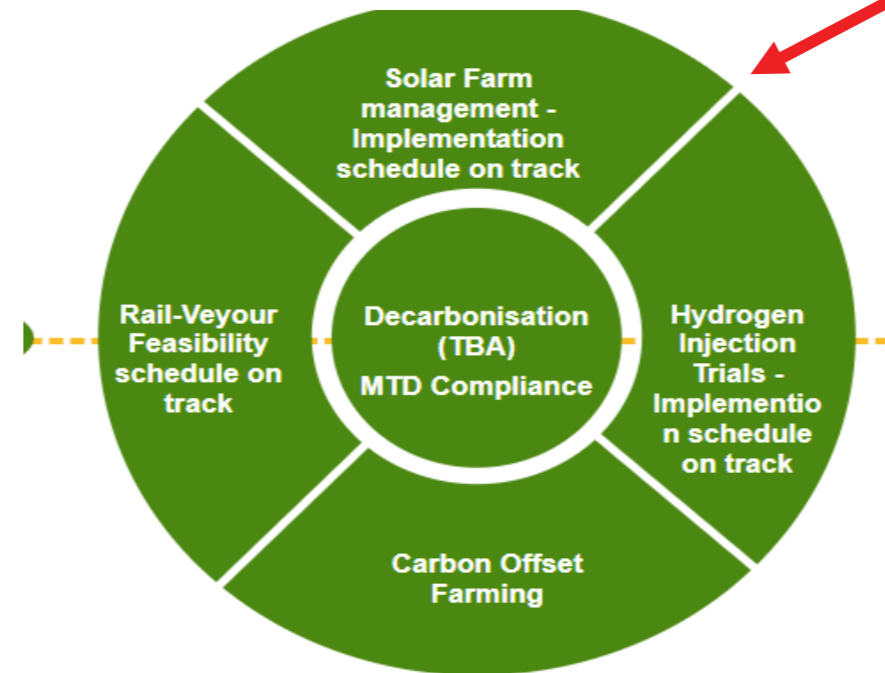
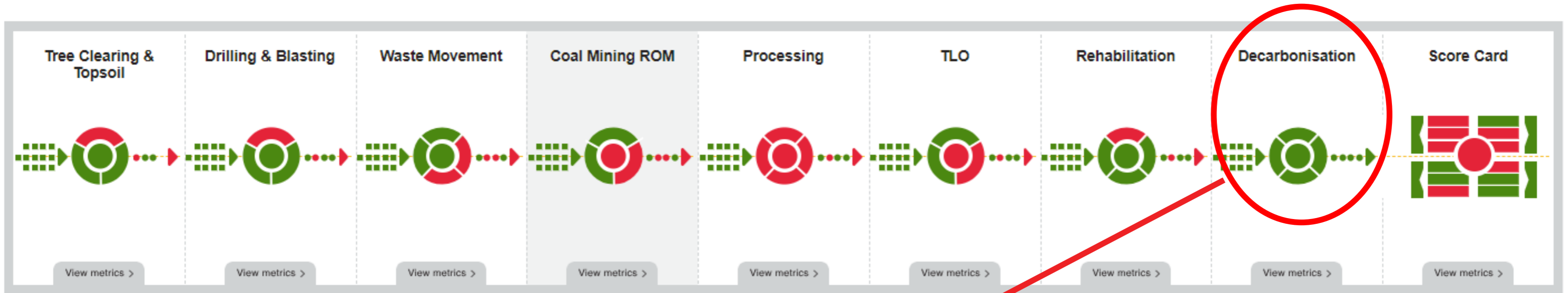
# Housing Voluntary Planning Agreement Update

- Development Application for Glentarkie approved.
- Construction documentation being finalised
- Tenders will be issued early March
- Contract recommendation and award early April
- On site works to commence May
- Completion Q1 25.





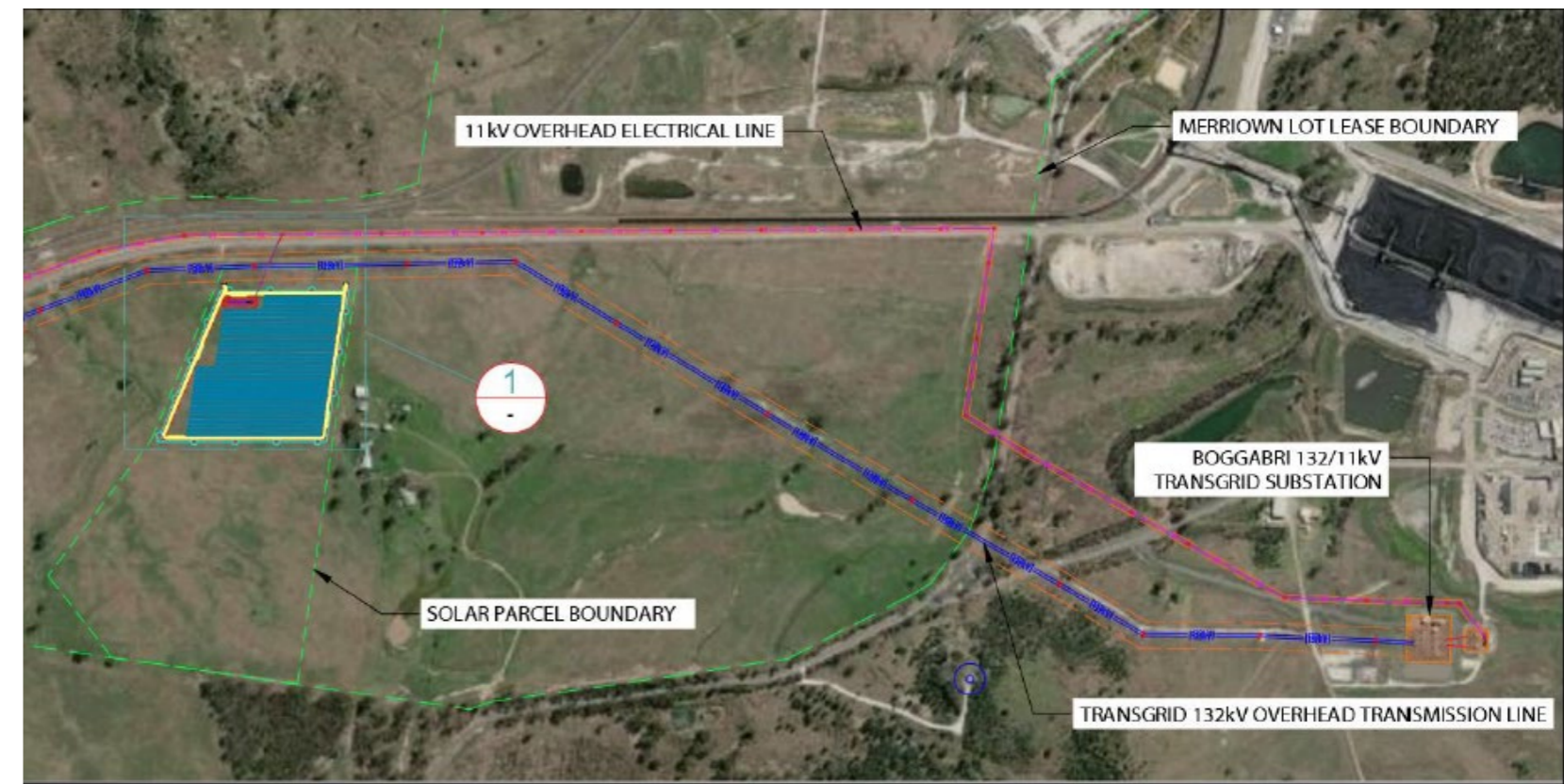
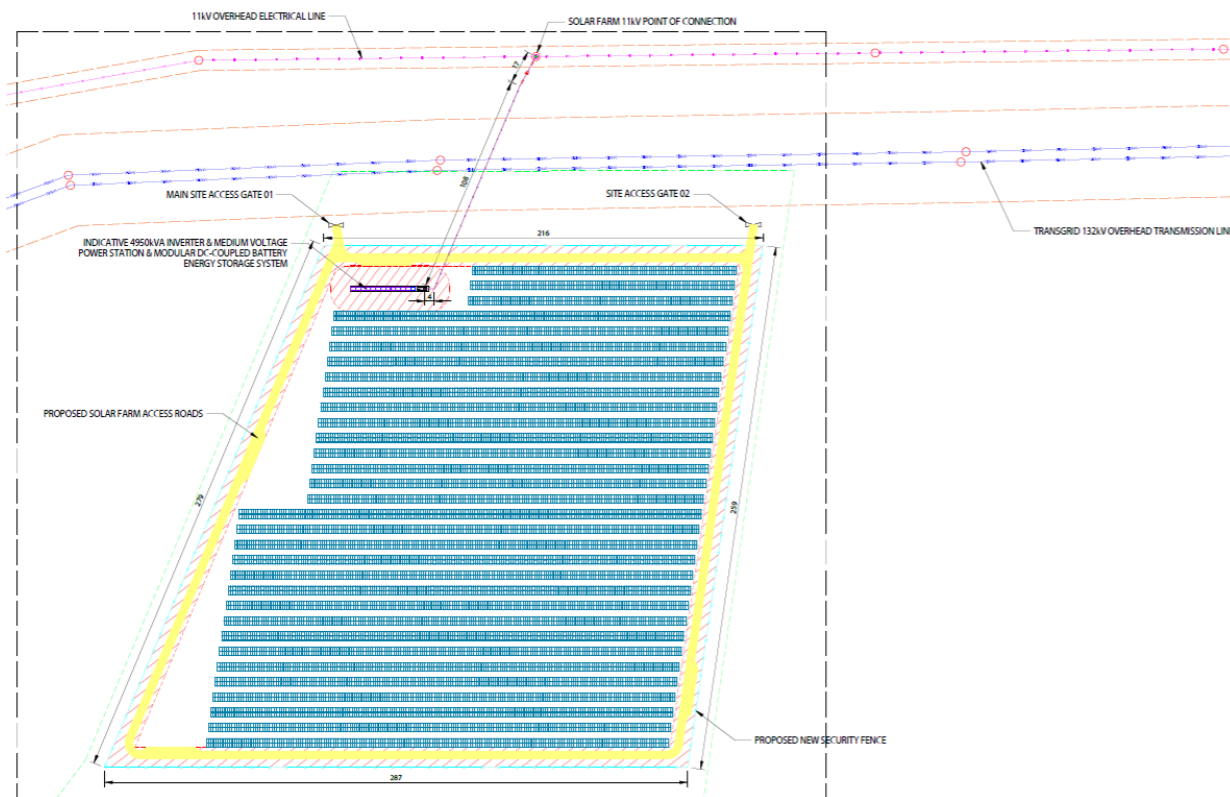
# Decarbonisation Projects 2024: Integral Part of Site Operations





# Solar Farm Update

- Design works have moved towards finalisation.
- Progression of approval pathway is continuing, Statement of Environmental Effects submitted to NSC.
- Following this assessment the project will be submitted to Northern Regional Planning Panel.
- Cultural heritage works undertaken November 2023.
- Aboriginal Cultural Heritage Assessment Report received January 2024.
- Geotechnical work commenced 6/02/2024.





# Rail-Veyor

## Overview

Rail-Veyor is a Canadian based company which has re-engineered the method of moving mined material on light rail with an electric, autonomous and low footprint (~1 metre wide) system.

The Rail-Veyor option for Boggabri is examining replacing all coal haulage between the top of ramp and the CHPP crushers with a light rail system.

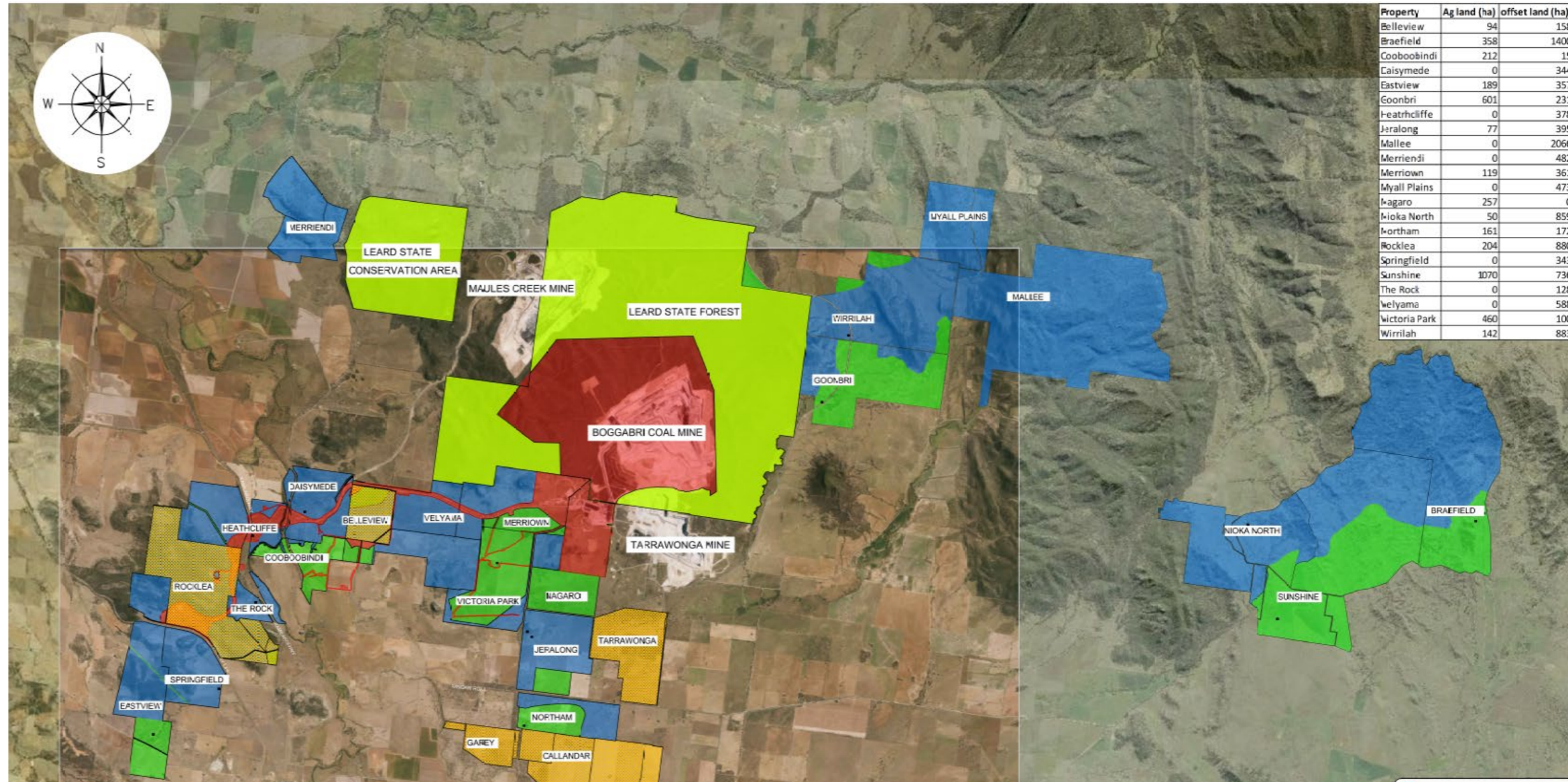
A concept study was completed in February 2023. This indicated that the Rail-Veyor system offers an opportunity to reduce Hitachi EH3500 truck numbers, which enables a proportional reduction in operators and maintainers, vehicle interactions, diesel use, dust and noise generation.





# idemitsu Carbon and Agriculture Feasibility Study

- BCO has approximately 3,700 Ha of Agricultural land over 12 properties, adjacent to our offset areas.
- We have commissioned a study to explore options for generation of ACCU's (Australian Carbon Credit Units) through a range of agricultural opportunities.
- We will be reviewing the findings and making recommendations to the business by the end of Q2.





# idemitsu Hydrogen Injection Study

- BCO consumes approximately 80million Litres of diesel per Annum which accounts for over 96% of our Scope 1 emissions.
- This study will examine the opportunities and benefits of combining hydrogen with diesel in the combustion chamber of our mobile plant engines, to reduce fuel consumption.
- We have identified a potential technology partner and are working through the detail of a trial installation on selected plant.

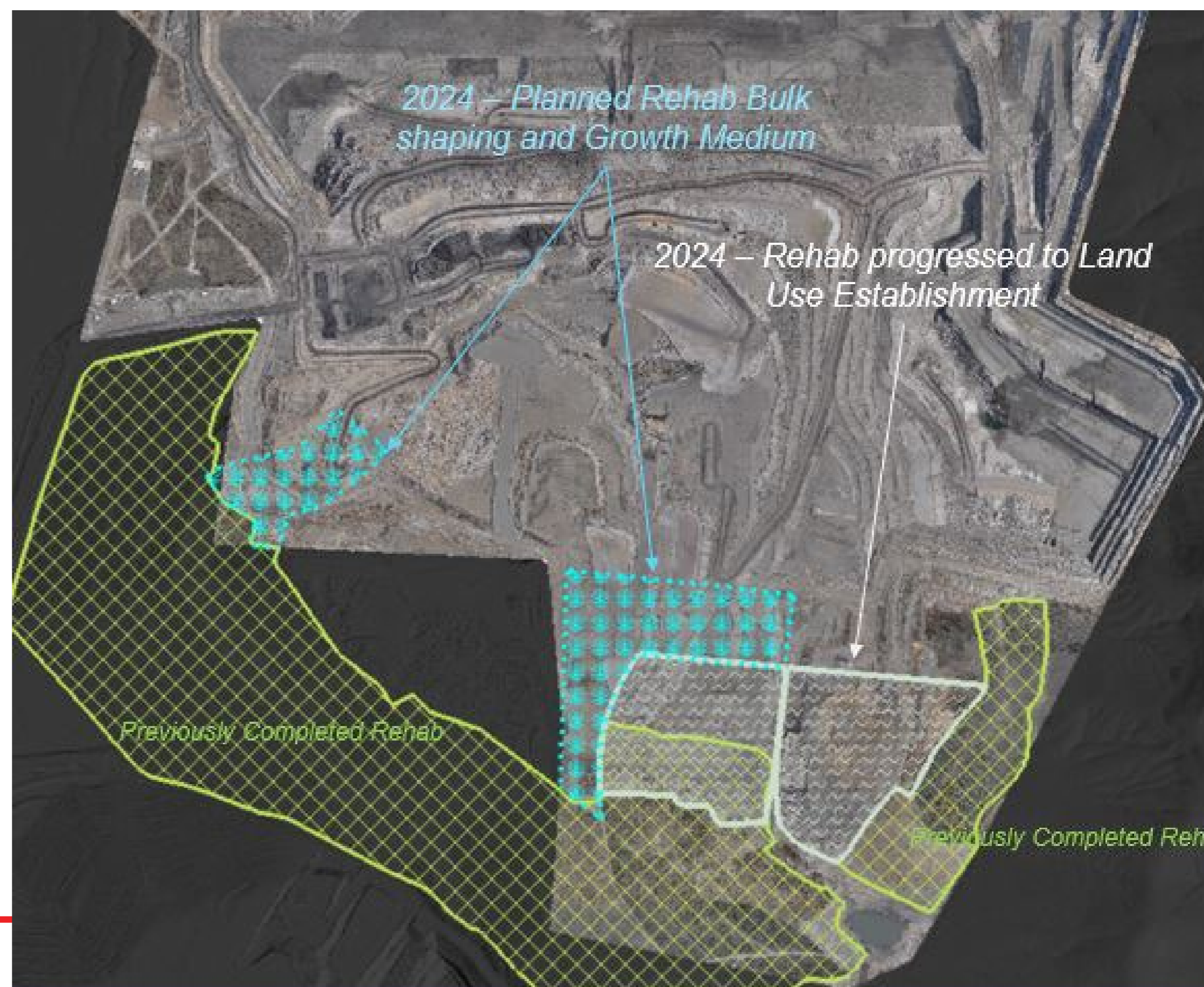
## ***The Technology:***

- *HHO or Oxyhydrogen is a mixture of hydrogen and oxygen.*
- *The proposed system generates a small quantity of HHO onboard the vehicle from distilled water using power from the engine alternator.*
- *The HHO is drawn into the engine air induction pipework to improve combustion and reduce fuel burn.*



## 2024 Rehabilitation

- 2023 75ha bulk shaping completed. 28ha required minor topsoil/revegetation work.
- 2024 40ha planned for rehabilitation.
- Seeding commenced 6/02/2024.





# Questions?

