Notes:	Notes of the 38th Meeting of the Maules Creek Coal Community Consultative Committee	Wednesday 24 August 2022
	Held at the Maules Creek plus Site Tour	

- Members Present: Elizabeth O'Hara (EOH) Community Representative, Emma Bulkeley (EB) WHC, Michelle Henry (MH) Narrabri Shire Council, Steve Eather (SE) Community Representative, Talan Breaden (TB) WHC
- Apologies:
 Clr Brett Dickinson (BD) Narrabri Shire Council, Darren Swain (DS) WHC, Libby Laird (LL) Maules Creek Community Representative, Lyndell

 Crowley (LC) Community Representative, Robyn Grover (RG) Community Representative

Independent Chair: David Ross (DR)

Independent Secretary: Debbie Corlet (DC)

Agen	Who to Present	
1.	Welcome and Apologies	DR
2.	Declaration of pecuniary or other interests	DR
3.	Confirmation of the Minutes of the previous meeting – Wednesday 25 May 2022	DR
4.	Business arising from the previous minutes – Action List Distributed	DR
5.	Site Tour	WHC
6.	Next Meeting – Wednesday 26 October 2022	ALL

Agenda Item	Discussion	Action/By Whom
1.	Welcome and Apologies – DR welcomed everyone. DR confirmed with members whether they had received his previous email about the resignations of Jack Warnock and Simmone Moodie.	ACTION 1 – DR to send letters of thanks to Jack Warnock & Simmone Moodie
2.	Declaration of pecuniary or other interests – DR is paid a fee as chair as is DC for typing the minutes. EOH has a small bundle of WHC shares.	
3.	Confirmation of the Minutes of the previous meeting – The CCC endorsed the minutes from the previous meeting as being an appropriate reflection of what was discussed.	
4.	Business Arising from the previous minutes DR – Members have received responses to actions from the previous meeting. There were no further comments or questions on these. Members were then provided with hard copies of the monitoring report and a presentation handed out to give a summary of MCCM's activities over the past quarter. DR invited members to read the material and ask any questions of EB or himself in the following days.	
5.	Site Tour Members were shown around the lower ROM and main ROM before spending time at the viewing platform to	
	gain a wider perspective of mine operations. Mine staff described to members what was taking place in front of them (i.e. the various activities and machinery being used). After much time was spent at the viewing platform, members then were taken near where the autonomous truck fleet is operating, before seeing one of the revegetation sites.	
	There were a number of questions that EB, TB, and BM responded to. These included noting that:	
	 The Mine uses between 200,00 – 250,000 litres of diesel a day with approximately 8 days of usage stored on site. There were blasts occurring on the Friday and following Monday after the site tour took place. There are multiple trucks fitted out for autonomous usage, current circuit has 12autonomous trucks operating. They are operating in their own discrete area with numbers operating dependent on the haulage route and distance. They are no longer in a pilot phase but rather are involved in standard operations now. Members were 	

Next meeting date — Next meeting will be on Wednesday 26 October 2022 at 2:00 pm, back at Boggabri Golf Club.
• The establishment of the dams was undertaken in accordance with the enforceable undertaking.
draining towards Back Creek. Due to insufficient inflows from catchments, the dams are yet to be commissioned.
The water is diverted through a series of pumped infrastructure and released from a clean water discharge point
mining operation.
 Four high wall dams were built to divert clean water from the clean water catchment above the mine away from the
EOH had questions concerning the dams subject to an 'enforceable undertaking', some of which were pointed out on the tour. In response, EB noted that:
are left on the ground as habitat for other small animals.
• Many of the dead trees from clearing are retained. They are erected as they are good for birds of prey. Other trees
personnel with backpacks spot spraying weeds.
• During rehabilitation, one of the first steps when it comes to revegetation is to seed with native grass plus a cover crop of millet. Contractors are engaged to undertake weed management. This is undertaken through the use of
• The end of life for the mine, in line with conditions, is 2034.
autonomous fleet commenced around February 2022.
informed that another autonomous truck fleet is currently being set up. Full operations for the existing

Meeting Closed: 3:20 pm

Appendix 1: Actions

Page No	Action No	Description	Date Raised
2	1	DR to send letters of thanks to Jack and Simmone	24 August 2022



Maules Creek Coal Mine Community Consultative Committee Meeting #38

Environmental Monitoring Report For the Q2 period, April – June 2022

Attended Noise Monitoring

Maules Creek Coal (MCC) engaged an independent acoustic consultant to conduct LAeq (15minutes) and LA1 (1 minute) attended noise monitoring at six monitoring locations on site. The monitoring was carried out over April to June 2022.

A. LAeq, 15minute; GENERATED BY MCCM AGAINST OPERATIONAL DAY NOISE CRITERIA; APRIL – JUNE 2022.

The results show that MCCM is within EPL 20221 compliance limits, that operations did not exceed the applicable LAeq (15minute) criteria of 35dB and the EPA's Noise Policy for Industry compliance guidelines.

Table 1 - April Noise Monitoring

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LAeq dB ²	Exceedance dB ³
NM1	12/04/2022 23:30	0.4	0	35	Yes	IA	Nil
NM2	12/04/2022 23:00	0.1	0	39	Yes	28	Nil
NM3	12/04/2022 23:32	0.3	0	35	Yes	IA	Nil
NM4	12/04/2022 22:30	0.8	0	35	Yes	26	Nil
NM5	13/04/2022 00:00	0.6	0	35	Yes	IA	Nil
NM6	12/04/2022 22:00	0.5	0	35	Yes	25	Nil

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LAeq, 15minute attributed to MCCP, including modifying factors if applicable; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.

Table 2 – May Noise Monitoring

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LAeq dB ²	Exceedance dB ³
NM1	05/05/2022 22:30	1.6	0	35	Yes	<25	Nil
NM2	05/05/2022 23:30	1.4	0	39	Yes	25	Nil
NM3	05/05/2022 23:45	1.3	0	35	Yes	IA	Nil
NM4	05/05/2022 23:00	1.1	0	35	Yes	<25	Nil
NM5	05/05/2022 22:00	1.9	0	35	Yes	IA	Nil
NM6	05/05/2022 23:56	1.6	0	35	Yes	IA	Nil

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LAeq, 15minute attributed to MCCP, including modifying factors if applicable; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.



Table 3 – June Noise Monitoring

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LAeq dB ²	Exceedance dB ³
NM1	08/06/2022 22:30	0.5	0	35	Yes	<25	Nil
NM2	08/06/2022 23:30	0.9	0	39	Yes	<25	Nil
NM3	08/06/2022 23:37	1	0	35	Yes	IA	Nil
NM4	08/06/2022 23:00	0.3	0	35	Yes	<25	Nil
NM5	08/06/2022 22:00	0.3	0	35	Yes	22	Nil
NM6	08/06/2022 23:57	1.3	0	35	Yes	IA	Nil

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LAeq,15minute attributed to MCCP, including modifying factors if applicable; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.

B. LA1, 1minute; GENERATED BY MCC AGAINST OPERATIONAL NIGHT NOISE CRITERIA; APRIL – JUNE 2022.

MCC's EPL 20221 also has a '1 Minute - Night' criteria (LA1) that applies from 10pm to 7am Monday to Saturday & 10pm to 8am Sundays and Public Holidays. Results are shown on tables 4-6.

The results show that MCCM is within EPL 20221 compliance limits, that operations did not exceed the applicable LA1 (1minute) criteria of 45dB.

Table 4– April Noise Monitoring – Night

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LA1,1min dB ²	Exceedance dB ³
NM1	12/04/2022 23:30	0.4	0	45	Yes	IA	Nil
NM2	12/04/2022 23:00	0.1	0	45	Yes	31	Nil
NM3	12/04/2022 23:32	0.3	0	45	Yes	IA	Nil
NM4	12/04/2022 22:30	0.8	0	45	Yes	32	Nil
NM5	13/04/2022 00:00	0.6	0	45	Yes	IA	Nil
NM6	12/04/2022 22:00	0.5	0	45	Yes	28	Nil

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LA1,1minute attributed to MCCP; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.



Table 5 – May Noise Monitoring – Night

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LA1,1min dB ²	Exceedance dB ³
NM1	05/05/2022 22:30	1.6	0	45	Yes	28	Nil
NM2	05/05/2022 23:30	1.4	0	45	Yes	30	Nil
NM3	05/05/2022 23:45	1.3	0	45	Yes	IA	Nil
NM4	05/05/2022 23:00	1.1	0	45	Yes	<25	Nil
NM5	05/05/2022 22:00	1.9	0	45	Yes	IA	Nil
NM6	05/05/2022 23:56	1.6	0	45	Yes	IA	Nil

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LA1,1minute attributed to MCCP; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.

Location	Start Date and Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies ¹	MCCP LA1,1min dB ²	Exceedance dB ³
NM1	08/06/2022 22:30	0.5	0	45	Yes	28	Nil
NM2	08/06/2022 23:30	0.9	0	45	Yes	<25	Nil
NM3	08/06/2022 23:37	1	0	45	Yes	IA	Nil
NM4	08/06/2022 23:00	0.3	0	45	Yes	<25	Nil
NM5	08/06/2022 22:00	0.3	0	45	Yes	25	Nil
NM6	08/06/2022 23:57	1.3	0	45	Yes	IA	Nil

Table 6 – June Noise Monitoring – Night

Notes:

1. Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);

2. Site-only LA1, 1minute attributed to MCCP; and

3. NA in exceedance column means criterion was not applicable due to atmospheric conditions outside those specified in project approval.

Wind Direction during Attended Monitoring

Wind direction data is collected from the Maule's Creek Coal Mine (MCCM) Automated Weather Station (AWS). Wind data for the duration of the attended monitoring assessment, recorded at the MCCM AWS is presented in the table below.

Table 7 - Prevailing Wind Direction

Monitoring Date	Prevailing Wind Direction
April	-
May	S
June	E



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Blast Monitoring

There were 25 blasts at MCCM during Q2 2022. All blast monitoring results recorded within the reporting period have complied with applicable overpressure and ground vibration limits specified in the respective approvals.

Table 8 – Blast Results Summary

Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Noise	dB (Lin Peak)	All	25	91.87	107.9	120	No
Vibration	mm/s		25	0.14	0.90	10	No

Air Quality

A. Total Depositional Dust

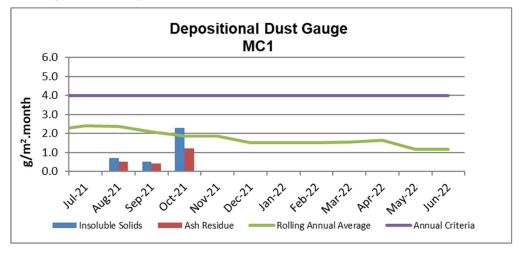
The 12 monthly rolling annual average remains below the relevant Project Approval (PA 10_0138) criteria of 4g/m²/month for the respective monitoring points.

Table 9 – Deposited Dust Gauge Results [g/m²/month]

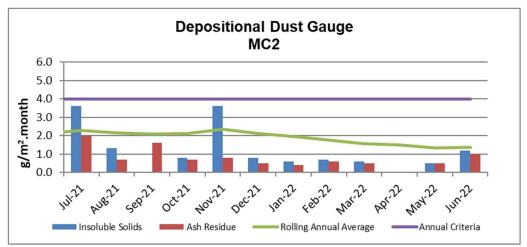
MONTH	MC1	MC2	MC3	MC4
April	36.3c	12.5c	1.9	0.6
Мау	36.1c	0.5	2.3	0.8
June	23.4c	1.2	3.1	4.2c
12 MONTH ROLLING AVERAGE	1.2	1.4	1.7	1.3

^c samples contaminated by bird dropping, decomposed insects or vegetable matter.

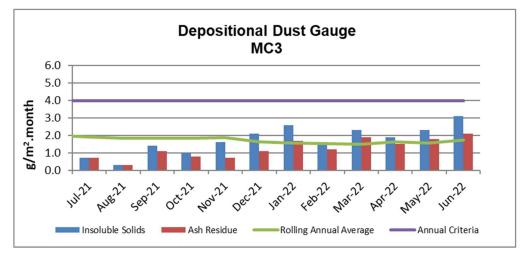




* Blank cells indicate sample periods where the sample has been contaminated and excluded from the results tables due to contaminated material (insect larvae, bird droppings, vegetation etc.).

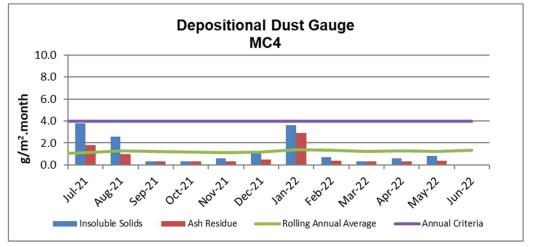


* Blank cells indicate sample periods where the sample has been contaminated and excluded from the results tables due to contaminated material (insect larvae, bird droppings, vegetation etc.).



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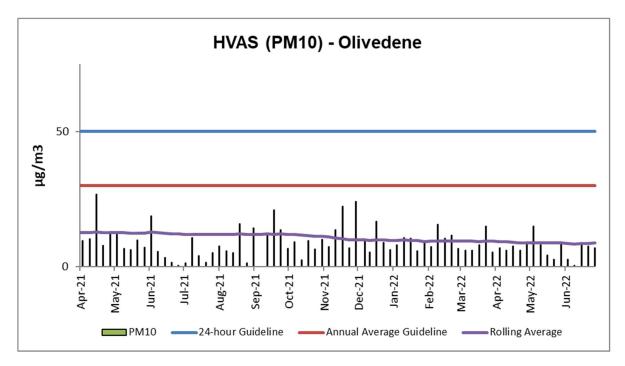


* Blank cells indicate sample periods where the sample has been contaminated and excluded from the results tables due to contaminated material (insect larvae, bird droppings, vegetation etc.).

B. High Volume Air Sampling (HVAS)

The HVAS monitor is located on the property 'Olivedene,' a mine owned property on Therribri Road. During past 12 months, there have been no exceedances of the 24-hour average of 50 μ g/m³.

HVAS PM₁₀ Rolling Annual Average as of June was 8.7 μ g/m³, which is below the Annual Average Guideline of 30 μ g/m³.



C. TEOM - PM10 Results

The annual rolling average for PM10 at the Maules Creek Coal TEOM1 was **5.6 \mug/m³**, which is below the Project Approval annual average criteria of 30μ g/m³ as shown in the following figure. There have been no exceedances of the 24-hour average for Q2.



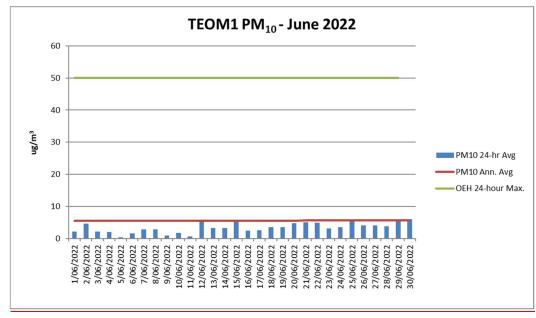
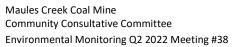


Figure 1 - TEOM Result – Particulate Matter PM_{10µg/m}³

* Blank columns indicate sample periods where there was either power outage, maintenance or other related causes.

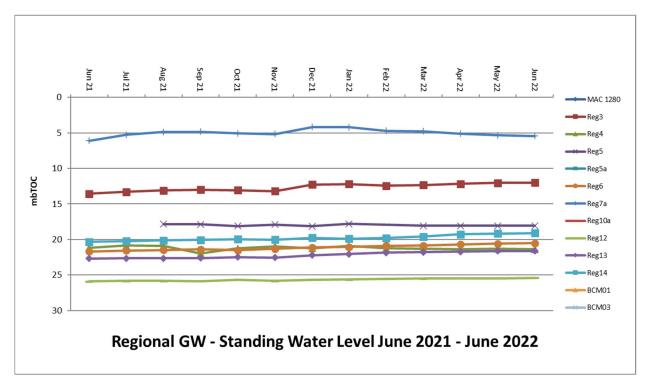




Water Monitoring

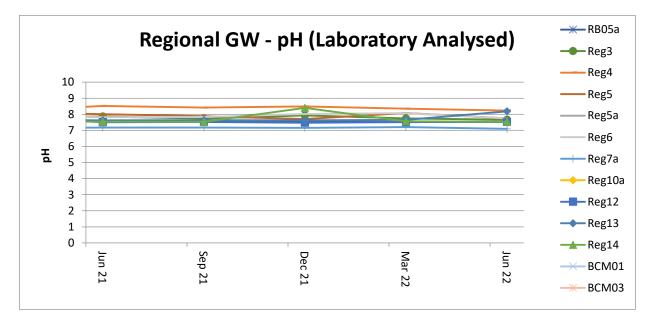
A. Groundwater

Groundwater monitoring results in open standpipe piezometers show levels to be relatively stable. The Regional bores were installed between Q4, 2013 and Q1, 2014. BCM01, BCM03, Reg10 are shallow bores which have remained dry since construction in 2013.



Acidity / Alkalinity (pH)

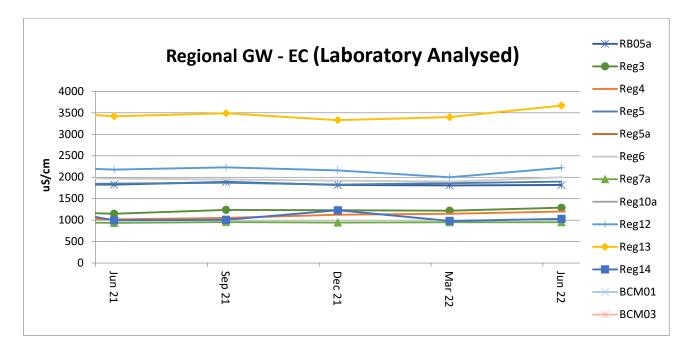
Over the past twelve months pH readings across the regional bores have remained static with very little fluctuation.





Electrical Conductivity

Laboratory Electrical Conductivity (EC) levels are all within historic groundwater EC range of $500_{\mu s/cm}$ to $2,500_{\mu s/cm}$, with the exception of monitoring bore Reg13 which has a historic groundwater EC range of $2,500_{\mu s/cm}$ to $4,100_{\mu s/cm}$. Within the last twelve months EC has remained static.

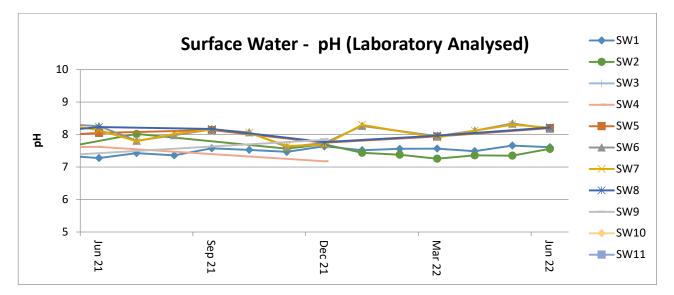


B. Surface Water - Creeks and Rivers

Routine surface water monitoring is conducted in surrounding creeks and rivers on a monthly basis. Results for parameters including pH, EC and Total Suspended Solids (TSS) are shown in the figures below. There are eleven surface water monitoring points, of which a maximum of **six** sites were able to be sampled during Q2 2022.

Acidity / Alkalinity (pH)

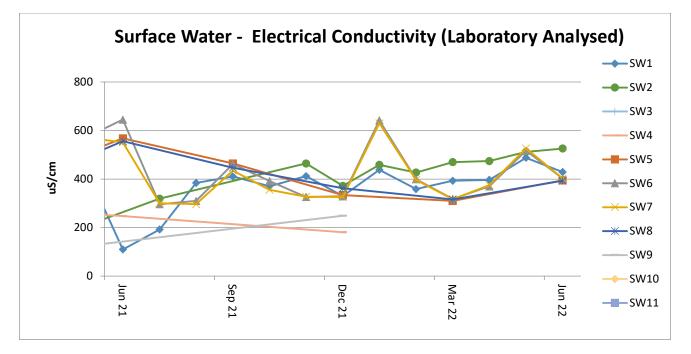
Monitoring results for pH in creeks and rivers surrounding MCCM are all trending within the ANZECC range for Irrigation, Ecosystem Health and Recreation.





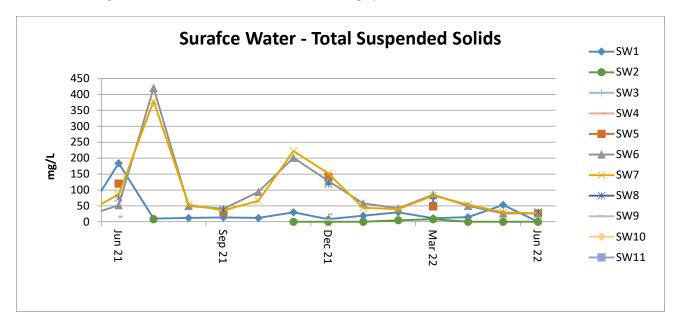
Electrical Conductivity

Surface water EC trends have remained consistent with SW5, SW6, SW7 and SW8 all historically variable. SW5, SW6, SW7 and SW8 are points along the Namoi River which are subject to regulated and variable flow regimes.



Total Suspended Solids (TSS)

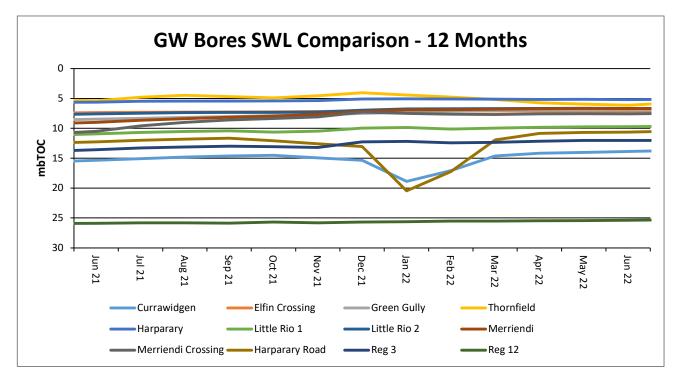
Surface water TSS trends have remained generally consistent with historical results. SW5, SW6, SW7 and SW8 are historically variable as they are located along the Namoi River which is subject to regulated and variable flow regimes. The Q3 results were elevated due to significant rainfall events, as demonstrated on the graph below TSS levels have since decreased

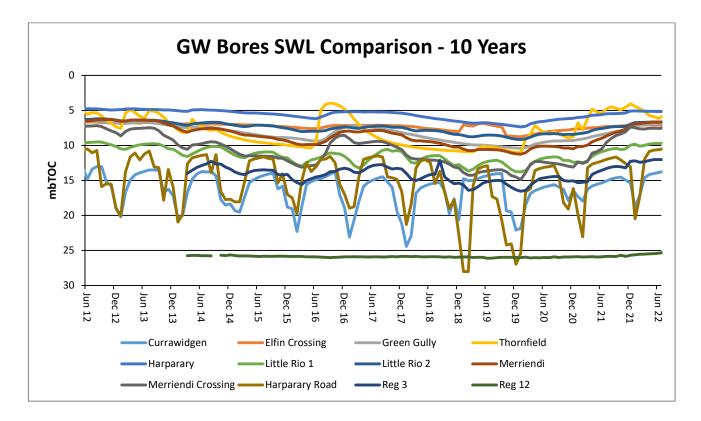




Regional Groundwater monitoring

Maules Creek Coal Mine monitors regional bores across the region.





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Rehabilitation

Progressive rehabilitation works are ongoing. 180.6 hectares were ariel seeded during April 2022.

Feral Animal Management

Most recent routine Whitehaven Biodiversity Feral Animal Control program (June 2022) results were: 150 out of total 222 pigs trapped or baited were from the Maules Offset properties; and 369 out of total 1470 fox baits (1080) taken were from the Maules Offsets properties.

Feral animal control program will be conducted within the MCC project boundary on site during Q3. The dominant animals that will be of focus are pigs, foxes, cats and goats.

Weed Control

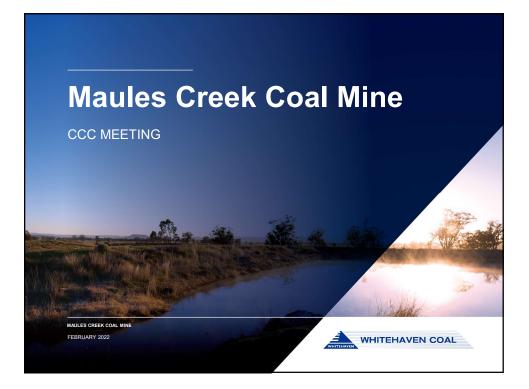
Spraying of early Winter growing broadleaf weeds like Turnip and Patterson Curse is underway. Targeted seasonal weed control for Pear and Box Thorn completed. Maintenance of fire break tracks to control excessive vegetation growth ongoing given good seasonal conditions.

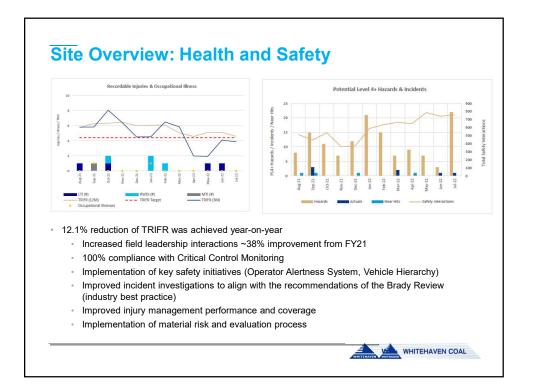
Fencing & Waste Management

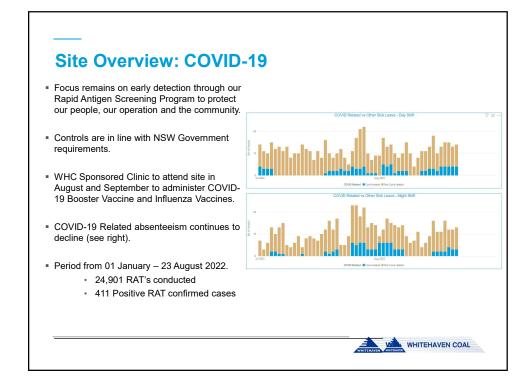
Old fencing removed and new constructed for Mt Lindesay and Velyama East as well as new fencing installed on Additional properties of Triangle and Long Gully.

Community Complaints

No complaints were received during Q2 2022.

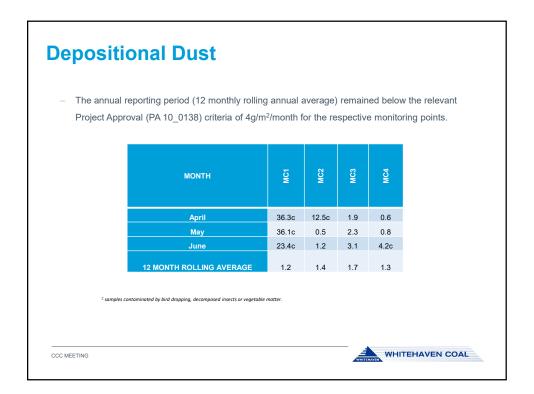












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HV	AS
	- The HVAS monitor is located on 'Olivedene'
	 Data is publically available
	– No exceedances recorded during the 24 hour average of 50 $\mu\text{g}/\text{m}^3$
	$-$ The Rolling Annual Average was recorded at $8.7~\mu g/m^3,$ which is below the Annual Average Guideline of 30 $\mu g/m^3.$
7 // CCC MEE	

