Minut	es:	Minutes of the 23 nd Meeting of the Maules Creek Coal Community Consultative Held at the Boggabri Golf Club, Gunnedah Road, Boggabri NSW 2382	e Committee Wednesday 7 November 2018
<u>Memb</u>	ers Present:	Darren Swain (DS) – WHC, Scott Mitchell (SM) – WHC, Carolyn Nancarrow (CN) Laird (LL) – Maules Creek Community Representative, Steve Eather (SE) – Comm Representative, Kerri Clarke (KC) – Environmental Representative, Cath Collyer	unity Representative, Robyn Grover (RG) – Community Alternative
<u>Apolo</u>	<u>gies:</u>	Nigel Wood (NW) – WHC, Jack Warnock (JW) – Community Representative, Sim	mone Moodie (SMo) - Community Aboriginal Representative
<u>Observ</u>	<u>vers</u> :	David Paull (member, Sustainable Living Armidale)	
<u>Indepe</u>	endent Chair:	David Ross (DR)	Independent Secretary: Debbie Corlet (DC)
Agen	da Items		Who to Present
1.	Apologies		DR
2.	Declaration o	f pecuniary or other interests	DR
3.	Confirmation	and Discussion of the minutes of the previous meetings – 15 August 2018	DR
4.	Business arisi	ng from the previous minutes – Action List Distributed	DR
5.	Corresponder	nce	ALL
6.	Questions and	d Answers Session	ALL
7.	Company Rep	ports and Overview of Activities:	
	•	ss at the mine	
		pring and environmental performance	
		unity complaints and response to complaints	
		ation provided to the community and any feedback	
8.	Review of 201	18 CCC meetings	
9.	General Busir	ness	ALL
10.	Next Meeting	g – 13 February 2019	ALL

	Agenda Item	Discussion	Action/By Whom
1. Community Aboriginal Representative 2. Declaration of pecuniary or other interests – DR advised he is paid a fee to chair these meetings as is DC for typing the Minutes. RG has a daughter at Maules Creek and a grandson at Boggabri Coal. SE has a son at Boggabri Coal. 3. Confirmation of the minutes of the previous meetings (16 May 2018) – The CCC endorsed the minutes as an acceptable record of what was discussed. 4. Business arising from the previous minutes – DR discussed the actions from the previous minutes Action 1 - DR to discuss letter further with EPA. Completed. DR discussed with the EPA that there were different views within the CCC whether there was value in having them attend. Action 2 - WHC to include Air Quality Monitoring slide for just Maules Creek. Completed. WHC advised slide was included in presentation. Action 3 - ALL - More suggestions for projects for the region. If anyone has any suggestions for projects that WHC could fund – please send to DR who will forward to Darren at WHC. Action 4 - DR & DS to discuss workshop for Nov CCC for project ideas. Open. Will hold off discussion until JW's return. Action 4 - SOD & DR to discuss template for annual report. Completed. To be discussed today. 5. Correspondence - No correspondence has been received in the last quarter. 6. Company Reports and Overview of Activities for July, August & September 2018 by WHC September quarter production figure 2.3Mt. FY18 production target of 12.2Mtpa ROM (Run of Mine) coal. Safety record of 8.2 (Total Recordable Injury Frequency Rate (TRIFR) – injuries per million hours worked) at end of Sept, w		Welcome – DR welcomed everyone to the final meeting of the year.	
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Employment		 Employee health programs continued focus on personal health. Safety focus to reduce incidents. Ongoing Employee Drug and Alcohol testing carried out. Visits by Resource Regulators. 	

	Action/By Whom
Continued focus on local, indigenous and female employment with ongoing training programs undertaken.	
• There have been 25 new trainees employed from July to September, 6 of these are new Indigenous trainees.	
Approvals & Audits	
Independent Environmental Audit undertaken by ERM was submitted to DP&E. The NSW Resources Regulator audit	
undertaken in May was finalised in the reporting period. Annual Review approved by DP&E and available on the	
Whitehaven website. NPI (National Pollutant Inventory) & NGER (National Greenhouse and Energy Reporting).	
 reporting was undertaken across Whitehaven Coal. 	
 An Official Caution was received regarding the blast in April 2018. 	
Natural Resource Access Regulator representatives visited. Progression of various management plans ongoing.	
Monitoring and Environmental Performance	
Monitoring and environmental results previously provided within the distributed information pack.	
Air Quality Management	
Publically available results of TEOM1 available on the EPA website. Annual rolling average for TEOM 1 is	
13.1ug/m3 at 30 September 2018 (criteria 30ug/m3).	
 Dust suppressant application continued across the operation. 	
 Progressive overburden emplacement and bulk shaping on the northern dump. 	
MCC air emissions are lower (over 30%) than those modelled in the Environmental Assessment.	
Groundwater Monitoring	
• Slides on Monitoring Locations, Groundwater Levels, Air Quality Monitoring January 2016 – September 2018.	
Community	
 Supporting the Future EDU program in Narrabri Shire in promotion of STEM. 	
Whitehaven are currently advertising for Cadetships 2019. Apprenticeship program applications have closed.	
Requesting suggestions of suitable Infrastructure Projects in the NSC and GSC areas. Ideally, they would target	
Health, Education or whole of Community benefit as per Whitehaven sponsorship programs.	
Support for Narrabri Westpac Rescue Helicopter Civic Art Exhibition display. Various school visits.	
Women in the Workforce Breakfast.	
Sponsorship & Donations – July to September 2018	

Agenda Item	Discussion	Action/By Whom
	 Sponsorships and donations have been made to the: Tamworth and Region = \$17,111. Narrabri area community = \$18,560 and Gunnedah area community = \$39,027. Ongoing VPA payments to Narrabri Shire Council. 	
	Voluntary Planning Agreement (VPA) Payments	
	 MCCM were required to negotiate a VPA with NSC as per Project Approval. Completed in 2014. Contributions have been paid to NSC of: \$13,425,000 paid in lump sum contributions and ongoing monthly payments \$0.075 per saleable coal tonne + CPI – ongoing (FY19>\$200,000). 	
	Looking Forward	
	 Continued focus on Health and Safety and reduction of TRIFR. Continued production targeting 13Mtpa within 3 years. FY19 production target is 12.2Mtpa ROM (Run of Mine). Continued focus on local recruitment. Autonomous Haulage System trials planned for 2019. 	
	General Discussion re the WHC Presentation	
	RK – What was the incident that received the caution?	ACTION 2 – DS to
	DS – Quantities that were reported back to them. Blast material etc.	bring information
	SM – EPA received complaints from that blast, so we provided information that they requested and from that we	about the Drug & Alcohol Testing
	received an official caution.	Program to the next
	LL – It was in April 2018.	meeting
	RK – Complaints as a result of noise, dust?	meeting
	SM – Dust. We responded with information including videos.	ACTION 3 – SM to
	LL – EPA wrote an official caution blast material, dust, alleged fumes, "incompetently acting" was the accusation by EPA.	provide the wordir
	Libby – Are they (EPA) bringing any more to you – are they (the mine) under investigation in relation to blasting on 3 rd and 21 st September?	of the blast cautior
	DS – There has been no follow up. We've responded to all complaints.	ACTION 4 – SM to
	LL – Particularly the Fairfax School – the blast went through that school and the community are asking.	supply info about
	SM – We may have responded already. We have responded to complaints. There is nothing outstanding from us to	complaints receive
	supply to the EPA.	from 3 rd and 21 st Sept blasting
	LL – So did Natural Resources Access Regulator representatives visit the site and when?	
	SM – Yes, In September. There is a complaint from the Maules Creek Community Council. Are you part of that group?	
	We haven't received a copy of the complaint letter to date – it was allegedly about water management. If anyone has a copy we would be appreciative. LL – What specifically?	

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	SM – Water including within the pit and surface water run-off.	
	CC –When was that undertaken.	
	SM – September / October.	
	 KC – Can we include graphs from monitoring report into the presentation? We need to get it out to the community – if it is presented in the slides – we can then discuss it properly. DS – Suggestion to do it on a separate slide if the community want to go through it? LL – In relation to the Environmental Monitoring Data handout emailed to CCC members. What is the reason for that dip (re monitoring at Red Bore 3) in September 2018? Monitoring bore – there was a 10-metre drop? DS – A logger is a tool that is hung down to measure the water level – the logger may have been hung up in the bore. The higher the number – the deeper the water in the bore. SM – There actually isn't a 10-metre drop. It was an increase in water level of a few metres. KC – How does it go up if the water doesn't go up. DS – Calibrated to a certain level and measuring from a certain point. LL – Oh. Being that it is "slotted" at 50 metres depth, it is monitoring Gunnedah Oxley porous rock levels. What are / or is the MCCM bores monitoring the shallow alluvia's, i.e. where farmers have bores in this area (i.e. close to the actual creek at Elfin, but between the mine and Elfin)? SM – We've been through this in the AGE presentation last meeting. The monitors for alluvia's – all along there are at Greengully, Elfin. 	ACTION 5 – Graphs from monitoring report to be included in the presentation ACTION 6 – SM to confirm with the monitoring contractor re the measurement at the bore
	LL – Government bores? None from MCCM? SM – Yes, but also alluvial monitors are also to the north.	
	CC – Deposition dust – Maules Creek PM10 – TEOM – 2 Sept spike. SM – 4 Aug and 1 Sept were regional events – another day like today. Looked at other monitors. CC – Weather conditions – put in better descriptions about what the causes are.	
	LL – What do you do when there is other dust in the environment. Yes, there would be dust coming from other places and yes, it is cumulative. It's how you manage your dust. SM – We have a licence to generate dust, but I understand what you are saying. That's why we have monitoring conditions in place – it was a regional event. Using dust suppression – water carts – training to the guys – slowing down and restricting people. We do stop work.	
	CC – Very windy day yesterday. Do you use a dust suppression practice? Do you cease or reduce the scale? SM – That's one management option. CC – Yesterday's and today event – what management practice was undertaken because of the regional wind event.	

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	SM – We use several management measures, including water carts, operational changes, use of Dust-a-Side for dust	
	suppression.	
	CC – Seems to be successful.	
	KS – What are the environmental facts?	ACTION 7 – WHC to
	SM – I think it is biodegradable.	present on their dust
	KC – Is it plant based?	suppression
	DS – I believe it is vegetable based.	practices and what
		Dust-a-Side is made
	Groundwater levels slide (metres on the side and dates across the top).	from
	KC – Who is pumping?	
	DS – Irrigators.	ACTION 8 –
		Distribute
	Community slides	information re
	CC – More information on Cadetships and what they entail would be great. Going to Uni and working as well.	cadetships and
	DS – Will provide CCC members with information about what cadetships and apprenticeships are coming up, so the CCC	apprenticeships
	can start talking to the community about what is coming up at the mines.	
	RK – On behalf of the Council, we thank WHC for their sponsorship and Westpac helicopter.	ACTION 9 – Provide
	DS – RK initiated most of those discussions.	links to websites in
		all presentations
	RK – Re employment at the mine. I've been contacted over the last few weeks (second or third parties) who have put in	
	multiple applications for a person and never heard anything from WHC Maules Creek Coal.	ACTION 10 – Report
	CN – I know of people who haven't received "Separation Certificates" etc. Need to have a chat to the Program people.	back as to why
	Lack of correspondence from WHC. Boggabri Medical Centre have been trained but still people are being sent to	applicants aren't
	Mudgee. Surely there are places in Gunnedah that are trained to do medicals.	being advised about
		applications
	DS – Contractors maybe going through the Coal Services – insurances are set up through them – there must be a link.	
	That's my initial thoughts?	ACTION 11 – Advise
		why employees
		aren't sent locally for
		medicals.
7.	General Business	
	CN – Currently pumping out of the river – are you pumping into the pits to store water.	
	DS – The intent is to do that.	
	KC – Offsets – how is that progressing – vegetation requirements? Surveying offsets – been cleared or being cleared.	
	KC - What's the progress of the offsets – will be good to have an update.	

Agenda Item	Discussion	Action/By Whom
	LL – Have you received any new Groundwater Licences in 2017 / 2018?	ACTION 12 – Clarify progress of the
	DS – I would expect so, since we've bought more country. SM - All the licences are listed in the Annual Review. LL – I haven't seen it – have you got the Annual Review.	offsets
	LL – When was that issued? SM – I don't have a date with me. We can find a date. You will be provided with the 2017 Annual Review today.	ACTION 13 – WHC to advise of any new
	LL – What is the number you are selling to farmers (re water)?	Groundwater
	DS – We don't transfer to the end of the year. Certainly, we wouldn't be doing that now. Water year is the financial year. We sold some in June 2016, 2017 and 2018. SM – The last few years to irrigators.	Licences in 2017 / 2018
	CN – Announced to the CCC her resignation after 5 years.	
	DR – On behalf of everyone on the CCC – thank you for your contribution and your time.	
	LL – If there are any modifications coming out before Christmas – can those management plans or strategies please get issued to the community for comment.	
	SM – There are always management plans being updated. I don't believe there is any where we would be seeking consultation before Christmas. BTM – water one went out for comment. Independent Audit we've discussed. I don't believe there is.	
	LL - Water Management Plan has not been approved by Dept of Planning?	
	SM – Not at the start of this meeting there hasn't been. We don't have any modifications – if something does eventuate, I apologise in advance.	
	KC – What usually triggers the modifications? Could you give us a calendar of events – so, if you know you have something – it'll give us timeframes.	ACTION 14 – WHC 1 produce a schedule
	LL – Would like to put something in and would like a bit of notice as they are substantial documents.	of modifications
	Annual Review	
	 DR facilitated a discussion after members gave their thoughts on a series of questions with respect to: The key issues that have been raised in CCC meetings this year – and what action has been taken on these? In order to have good meetings in 2019, what do we need to keep doing? Stop doing? 	
	 What issues need to be discussed next year? And how should they be dealt with? 	

Agenda Item	Discussion	Action/By Whom
	The key issues identified for the past year include:	
	Minutes: differences within the committee on what should be included	
	 Biodiversity with information presented by WHC 	
	 Water with information presented by consultants 	
	 Discussions and information provided on fire management and feral animals 	
	 Information provided on air, dust and noise 	
	Local employment	
	Engagement with landholders and social licence	
	A request was also made to release briefing documents with minutes and presentations on the web to ensure meetings are successful in 2019, CCC members identified that there was a need to involve consulting experts, be open and respectful rather than feel like we are in a court room.	
	Furthermore, it was suggested that CCC members should have questions prepared beforehand, improve discussion on fines and complaints, and gain EPA clarification of the compliance process.	
	The key issues identified for next year included:	
	 Training in the Guidelines, Approval Conditions, Compliance (State and Federal), EPA – EPL Licence. 	
	 Water Monitoring term and operation guidance. 	
	Like for like offsets info and tour.	
	 Know the plan for shutdowns when coal market drops out soon. 	
	Encourage reps from Government Agencies, e.g. EPA and DPE regularly but with more open communication	
	 Emerging Water (depending on weather) 	
	Biodiversity ongoing	
	 Deal with communications respectfully - not everyone will be happy with answers available. 	
	Less allegations and greater trust	
	 Requests were also made for more advanced warning for submissions and use the opportunity to ask questions in advance in order to help meetings have good discussions. 	
	Discussions were then held on a number of the above subjects.	
	DR – If members of the CCC have (advanced) questions for WHC – please forward questions to DR who will compile a list	
	and forward to WHC and then WHC can respond at the meetings – so they aren't put on the spot.	

Agenda Item	Discussion	Action/By Whom
	DS – Sounds like a great idea. Just a note though that it depends on how many questions come in and how complex they are. We may not be able to respond at the next meeting, but we can provide an update / response.	
		ACTION 15 – DR to
	CC – Yes, so for example, my question is very complex – you can at least respond with a timeframe for the answer.	invite members to
	LL – If I get a modification document like the Vickery's – it is 4,000 pages. We are being put under pressure to produce quality feedback, so our community aren't bulldozed. WHC have consultants and they all produce documentation and answers in a timely manner but up to DS who is going to supply him with the issues within Maules Creek.	provide questions 3 weeks in advance of meetings (ongoing)
	KC – All the questions should be answered in a timely manner as well and prioritised. If complex – it might take a little longer for this question to be answered.	
	DR – What is an appropriate time frame then do you think for replies?	
	A discussion was then held with agreement that DR would ask members three weeks in advance of CCC meetings for questions.	
	CC– If complex couple weeks but then give us a timeline of when it would be completed.	
	LL - EPA come here but we never get to find out about their escalation process with the mines. What is it? How many strikes etc. Direct questions to the EPA but they don't answer this part of the question in a way to communicate to affected community members. Always vague answers. EPA need to have clear information they need to give us, "This is how our process works – these are the regulatory escalating steps ensuring compliance and this is our strategy etc – then finally you get a fine".	ACTION 16 – DR to look into a presentation on compliance from
	 KC – Clear communication about non-compliance with more detail – what happened and why and what happened to rectify it. So, we know something has been addressed and changed. CN – More open communication as this is a bit like a court room. The way we sit in the CCC etc. 	EPA in 2019
	CN – The EPA won't come every time. DR – re EPA, within the CCC there were different views of being involved in the CCC as observers – 1 – It was not a unanimous decision with observations that they don't attend all the CCC and 2 – wasn't clear what they were going to provide here. Government agencies – outside Narrabri Gas Project– don't consistently or regularly attend CCC meetings; EPA they come every 6 months.	
	RK – Need to be careful from the ACT – where the people are / specific group of people / you can't just bring people in and they can't just be a CCC member. Specific issues – need to issue and beyond our knowledge – then bring in EPA, Environmental, Planning etc. Need to discuss those issues as we are the conduit between the community.	

Agenda Item	Discussion	Action/By Whom
	DR – It (CCC) is an advisory body. You can suggest, and I can investigate something. RK – Read out the CCC Guidelines and need to stick to those.	ACTION 17 – Review to be on agenda for next CCC meeting
	LL – A lot of people learn in different ways and a lot of people are not aware of how the mine Project Approval works. How compliance process works. The CCC Guidelines – education process needs to occur. Like site visits. Modifications – putting submissions in and feeling more confident and being able to read those documents.	
	DR – Needs Training? LL – Yes, in what the Project Approval is allowing WHC to do, how EPA and DPE compliance of this works, how modifications for this work, how there are different kinds of modifications and what this means, how cumulative impacts are occurring from mods and how submissions can be written by members. We need to understand what does adaptive management mean to us? What negative impact of another time extension by MCCM attaining the Commonwealth Offsets for the Commonwealth Approval has on actual biodiversity. These are all issues that CCC members need to be across in order to understand what is going on and be able to represent their community's views on this.	
	 DR – Training on the Guidelines themselves. Compliance from the EPA and DPE. Offset info. LL – State conditions and Commonwealth conditions – how do the commonwealth conditions work? How do you get an extension for your commonwealth offsets? Pushing it down the road affect biodiversity. Small modifications, admin, minor environmental impact modifications. 	
	DR – How should this training occur – who should do it? LL – An independent person/s. As State Government are financial stakeholders – they have a monetary interest. So not best placed.	
	DR – We could have government agencies talk to these. What we'll do is retain this information for next year. Some we can talk about in further detail – which has greater priority and helping me focus to build a calendar of people to present to us. Next meeting – keep discussing what's on the sheet.	
	Discussion about Minutes (in General)	
	DR – Prior to my involvement with the CCC, the minutes were 4 pages long and there were concerns about the minutes. Now the minutes are 14 pages long and there are still concerns.	
	KC / LL – Want the meetings recorded.	

Agenda Item	Discussion	Action/By Whom
	CC – Disagree. I don't feel the whole conversation needs to be recorded. They are a general overview of the meeting. If	
	you want something in the minutes – clarify this and we can have that included in the minutes.	
	CN – If we want something on the minutes – stop the conversation and say, "Can I please make sure that is in the	
	minutes". I think they are a lot better to what they were. It is minutes and it isn't a transcript.	
	RK – I've always received the draft minutes and if each one of us has something to say – you have an opportunity when	
	the draft minutes come out to make comment. The minutes are a legal document and if not what you said – you can correct it. I don't see anything wrong with the current system.	
	DR – There is a challenge with different perspectives on different issues – he said – she said etc. DPE believes that the	
	minutes should just focus on actions and outcomes. But I've tried to be more adaptable for this CCC.	
	LL – Wouldn't taping meeting take away this problem? Making it a matter of face what was said. The tape should be	
	used as a checking tool for minute taker to have clarity around responses from WHC representatives.	
	KC – Think it's about the public record – access to the public –it is about public and open communication.	
	DR – What the Guidelines say, is that the Chairman has the final call – there are times there is so much that goes in – I	
	make a call. I'm trying to provide you (the CCC) with minutes that meet needs on so many different levels.	
	LL – The community are asking these questions – because it impacts on them personally. It's the detail in the meeting.	
	KC – They should be recorded and stored.	
	DR – It's not a transcript and we are mindful that not everything is kept in the minutes. Going from draft to draft –	
	however, there are so many perceptions – what I may see is the truth and you see may be something different.	
	LL – I'm comfortable with the final minutes – they are very good. It's just very painful getting to that point. Too much	
	time is spent amending the minutes by volunteers. Accuracy is important. What did the minutes record for today re for	
	e.g. Did Natural Resources regulator investigate groundwater in September?	
	SM – Yes. Well, we've covered that already in the meeting regarding water in the pit.	
	CC – Repeat what you want stated in the minutes – get them to repeat and answer – stop and start and type an answer.	
	DR – Technical presentations – pause the conversation more often for the question, action and reply etc.	
	KC – Good way to start and trial and error. Biggest thing is to slow it down – it gives Deb more time to get information	
	down.	
	CC – Make that decision to slow it down – just not on technical but on any questions.	
	SM – My personal view – there is a process there – everyone has an opportunity to comment. I prefer shorter minutes –	
	if it catches the key details.	

Agenda Item	Discussion	Action/By Whom
	DS – Shorter minutes – key points and then the actions. When you read the minutes and drilling down to the detail and getting lost. Are you going to be happy if everyone is going to ask you to slow down the questions and extend the meetings even longer when we are already at 4 hours?	
8.	Next meeting date to be agreed - Next meeting Wednesday 13 February 2019 at 2:00pm.	

Meeting Closed: 5:50pm

Appendix 1: Actions

			Appendix 1. Acti
Page No	Action No	Description	Date Raised
2	1	Action 4 – DR & DS to discuss workshop for Nov CCC for project ideas. DR and Darren – having a workshop around people's ideas on projects but will hold off until Jack returns. This action is to be kept open.	15 August 18
4	2	DS to bring information about the Drug & Alcohol Testing Program to the next meeting.	7 November 18
4	3	SM to provide the wording of the blast caution.	7 November 18
4	4	SM to supply info about the complaints received from 3 rd and 21 st Sept blasting.	7 November 18
5	5	Graphs from monitoring report to be included in the presentation.	7 November 18
5	6	SM to confirm with the monitoring contractor re the measurement at the bore.	7 November 18
5	7	WHC to present on their dust suppression practices and what Dust-a-Slide is made from.	7 November 18
6	8 Distribute information re cadetships and apprenticeships.		7 November 18
6	9	Provide links to websites in all presentations.	7 November 18
6	10	Report back as to why applicants aren't being advised about applications.	7 November 18
6	11	Advise why employees aren't sent locally for medicals.	7 November 18
6	12	Clarify progress of the offsets.	7 November 18
6	13	WHC to advise of any new Groundwater Licences in 2017 / 2018.	7 November 18
7	14	WHC to produce a schedule of modifications.	7 November 18
9	15	DR to invite members to provide questions 3 weeks in advance of meetings (ongoing).	7 November 18
9	16	DR to look into a presentation on compliance from EPA in 2019.	7 November 18
10	17	Review to be on agenda for next CCC meeting.	7 November 18



Maules Creek Coal Mine Community Consultative Committee Meeting #23

Environmental Monitoring Report For the Q3 period, July-September 2018

Attended Noise Monitoring

Attended noise monitoring was undertaken at six locations during July, August, and September by an independent acoustic consultant. The measured noise level (LA_{eq 15 minute}) attributed to Maules Creek Coal Mine (MCCM) and applicable criteria for each location are shown in the tables below.

LAeq, 15minute GENERATED BY MCCM AGAINST OPERATIONAL NIGHT NOISE CRITERIA – JULY TO SEPTEMBER 2018.

Table 1 - July Noise Monitoring

		Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAeq	Exceedance
			m/s	mm	dB ³	Applies ¹	dB ^{2,3}	dB ^{3,4}
NM1	19/07/2018	23:57	0.3	0	35	Yes	IA	Nil
NM2	19/07/2018	23:01	0.4	0	39	Yes	IA	Nil
NM3	19/07/2018	22:00	0.8	0	35	Yes	IA	Nil
NM4	19/07/2018	23:29	0.4	0	35	Yes	IA	Nil
NM5	20/07/2018	0:29	0.7	0	35	Yes	IA	Níl
NM6	19/07/2018	22:32	0.4	0	35	Yes	IA	Nil

Table 2 - August Noise Monitoring

Exceedance	MCC LAeq dB ^{2,3}	Criterion	Criterion	Rainfall	Wind Speed	Time		
dB ^{3,4}		Applies ¹	dB ³	mm	m/s			
Nil	<20	Yes	35	0	0.3	23:46	6/08/2018	NM1
Nil	IA	Yes	39	0	0.4	22:56	6/08/2018	NM2
Nil	IA	Yes	35	0	0.6	22:00	6/08/2018	NM3
Nil	IA	Yes	35	0	0.3	23:21	6/08/2018	NM4
Nil	IA	Yes	35	0	1.7	0:15	7/08/2018	NM5
Nil	IA	Yes	35	0	0.6	22:27	6/08/2018	NM6
	UA.	TES	308	U	0.0	22.21	0/00/2018	NINO

Table 3 - September Noise Monitoring

		Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAeq	Exceedance
			m/s	mm	dB ³	Applies ¹	dB ^{2,3}	d8 ^{3,4}
NM1	13/09/2018	22:28	0.7	0	35	Yes	23	Nil
NM2	13/09/2018	23:30	0.4	0	39	Yes	<25	Nil
NM3	14/09/2018	0:22	0.3	0	35	Yes	IA	Nil
NM4	13/09/2018	22:53	0.6	0	35	Yes	IA	Nil
NM5	13/09/2018	22:00	0.3	0	35	Yes	IA	Nil
NM6	13/09/2018	23:56	0.4	0	35	Yes	IA	Nil

(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). Estimated or measured LAeq,15minute attributed to MCCM;

(3). NA in exceedance column means criterion is not applicable, either due to atmospheric conditions outside those specified in project

approval or due to property acquisition by MCC; and

(4). Bold results indicate exceedance of criterion.

IA – Inaudible NM – Not measurable

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None of the measurements during Q3 satisfied the conditions for further assessment when assessed for the applicability of low frequency modification factors in accordance with the EPA's Noise Policy for Industry. Therefore, no further assessment of modifying factors was needed to be undertaken.

The Maules Creek Coal (MCC) 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. The results for the LA1 monitoring are shown below. The results show that mine operations did not exceed the applicable LA1 criteria during attended noise monitoring in Q3 2018.

LA1, 1minute GENERATED BY MCC AGAINST OPERATIONAL NIGHT NOISE CRITERIA – JULY TO SEPTEMBER 2018.

Table 4 - July Noise Monitoring - Night

		July	*					
LA	(1min)	Time Wind Speed	Rainfall	Criterion	Criterion	MCC LAI(1min)	Exceedance	
			m/s	mm	dB ³	Applies ¹	dB ^{2,3}	dB ^{3,4}
NM1	19/07/2018	23:57	0.3	0	45	Yes	IA	Nil
NM2	19/07/2018	23:01	0.4	0	45	Yes	IA	Nil
NM3	19/07/2018	22:00	0.8	0	45	Yes	IA	Nil
NM4	19/07/2018	23:29	0.4	0	45	Yes	IA	Nil
NM5	20/07/2018	0:29	0.7	0	45	Yes	IA	Nil
NM6	19/07/2018	22:32	0.4	0	45	Yes	IA	Nil

Table 5 - August Noise Monitoring – Night

10		August						
LA	LA1 (1min) Tim	Time	Time Wind Speed	Rainfall	Criterion	Criterion	MCC LAI(1min)	Exceedance
			m/s	mm	dB ³	Applies ¹		dB ^{3,4}
NM1	6/08/2018	23:46	0.3	0	45	Yes	<20	Nil
NM2	6/08/2018	22:56	0.4	0	45	Yes	IA	Nil
NM3	6/08/2018	22:00	0.6	0	45	Yes	A	Nil
NM4	6/08/2018	23:21	0.3	0	45	Yes	LA	Nil
NM5	7/08/2018	0:15	1.7	0	45	Yes	IA	Nil
NM6	6/08/2018	22:27	0.6	0	45	Yes	IA	Nil

Table 6 - September Noise Monitoring – Night

1		September						
LA	1 (1min)	Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAI(Imin)	Exceedance
			m/s	mm	dB ³	Applies ¹	dB ^{2,3}	dB ^{3,4}
NM1	13/09/2018	22:28	0.7	0	45	Yes	23	Nil
NM2	13/09/2018	23:30	0.4	0	45	Yes	<25	Nił
NM3	14/09/2018	0:22	0.3	0	45	Yes	IA	Nil
NM4	13/09/2018	22:53	0.6	0	45	Yes	IA	Nil
NM5	13/09/2018	22:00	0.3	0	45	Yes	IA	Nil
NM6	13/09/2018	23:56	0.4	0	45	Yes	IA	Nil

Notes:

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

2. Estimated or measured LAeq, 15minute attributed to MCCM;

3. Estimated or measured LA1,1minute attributed to MCCM;

 NA in exceedance column means atmospheric conditions outside those specified in Project Approval and criterion is not applicable.

IA – Inaudible NM – Not measurable

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Wind Direction during Attended Monitoring

Wind direction data is collected from the 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
19/20 July	SSW, SW
6/7 August	SW, SSW
13/14 September	E, ESE

Blast Monitoring

There have been 31 blasts at MCCM during Q3 2018. All blast monitoring results recorded within the reporting period have been within the applicable overpressure and ground vibration limits specified in the respective approvals.

Table 8 - Blast Results Summary Quarter 3 2018

Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Noise	dB (Lin Peak)	All	31	93.12	117.6	120	No
Vibration	mm/s		31	0.23	0.65	10	No

Air Quality

Total Depositional Dust

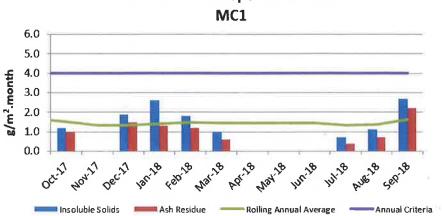
The monthly rolling annual average remains below the relevant Project Approval criteria of 4gm/m²/month for the respective monitoring points, as shown on the graphs below.

Deposited Dust Monitoring Figures (MC1 – MC4)

Please refer to the following page.

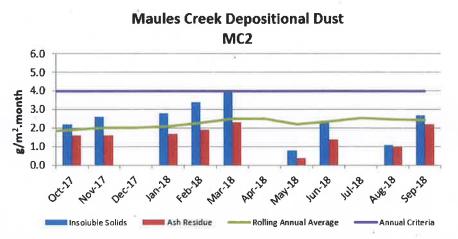
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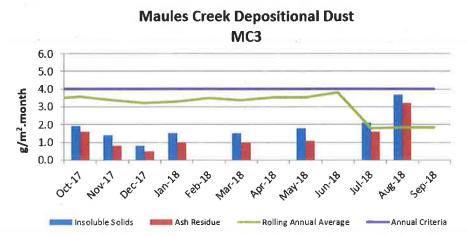


Maules Creek Depositional Dust

* 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.).



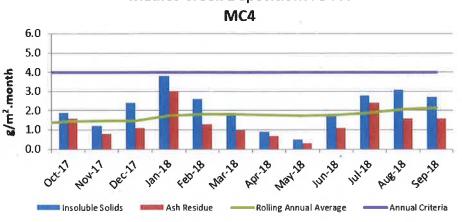
* Blank cells indicate sample periods where the sample has been contaminated and excluded from the results tables due to contaminated material (insect larvae, bird droppings, vegetation etc.).



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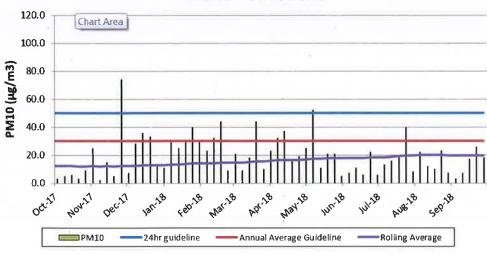




Maules Creek Depositional Dust

High Volume Air Sampling (HVAS)

The HVAS monitor is located on the property 'Olivedene,' a mine owned property on Therribri Road. HVAS PM₁₀ Rolling Annual Average during Q3 2018 remained well below the Annual Average Guideline 30 μg/m³.



HVAS - Olivedene

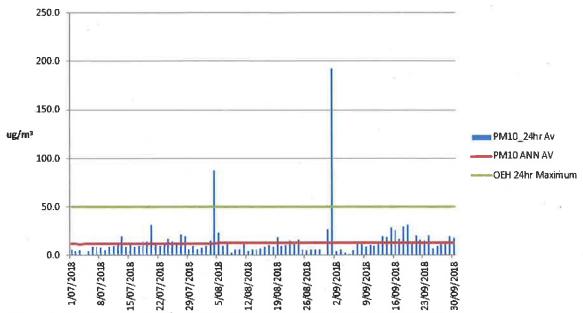
TEOM - PM10 Results

The annual average for PM₁₀ results at the Maules Creek Coal TEOM remain below the Project Approval annual average criteria of 30µg/m³ (at 30 June 2018) as shown in the following figure. The PM₁₀ average results have remained below this criteria since the TEOM was commissioned in November 2011. On the 4 August and 1 September there were 24 hour average result of 87.4µg/m³ and 193.2µg/m³ respectively which were above the OEH 24hr maximum. These elevated results were not mine related - real time monitoring data, weather conditions and site operations were assessed to ensure air quality contributions were minimised during these regional dust events.

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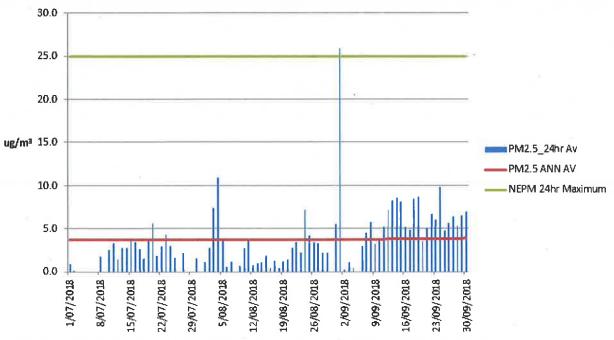


TEOM Result Figures – Particulate Matter PM10µg/m3 and PM2.5µg/m3



Maules Creek TEOM1 PM₁₀

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



Maules Creek TEOM1 PM_{2.5}

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

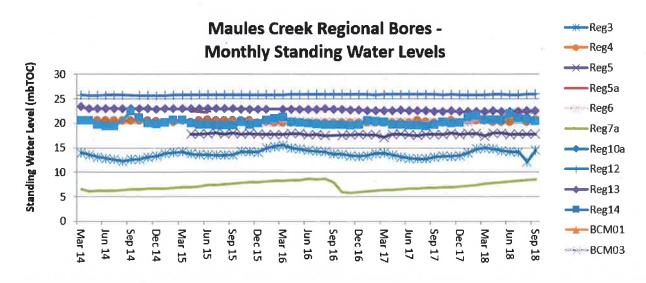
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Water Monitoring

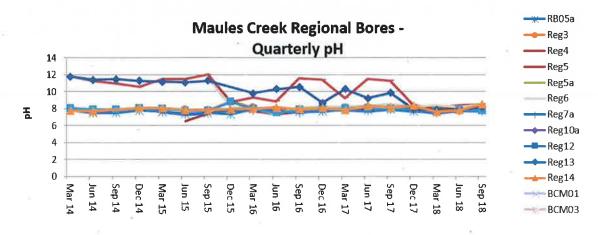
Groundwater

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)

Initially bores Reg4 and Reg13 showed elevated pH levels (above pH 8.5) this has been determined to be as a result of low recharge volumes and affected by grout within these bores at installation, however for the past 12 months pH levels for both of these bores seems to have stabilised.

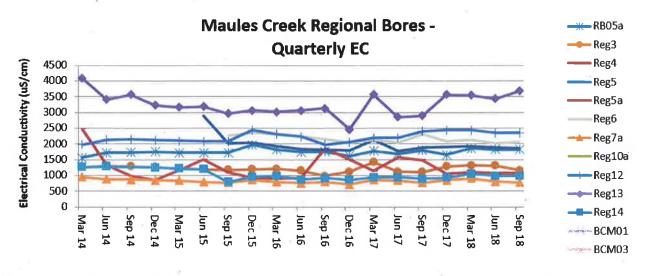


Electrical Conductivity

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 $4,100_{\mu s/cm}$.

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Wet Weather Discharge Sampling

Between 1st July and 30th September 2018, Maules Creek Coal AWS recorded 79.4mm of rainfall. There were no rainfall events that exceeded the 38.4mm value over a consecutive 5 day period during Q3 2018. There were no wet weather discharge events during Q3 2018.

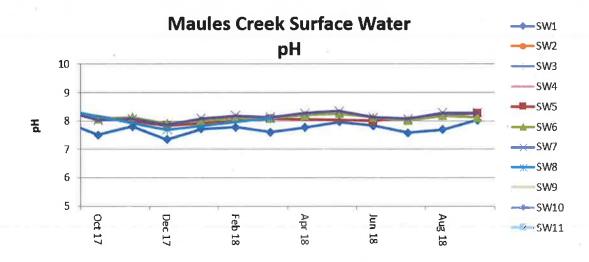
Note: As per wording of condition L2.5 of EPL20221, 38.4mm equates to the 5 day 90 percentile rainfall for the Gunnedah region.

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.

Acidity / Alkalinity (pH)

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

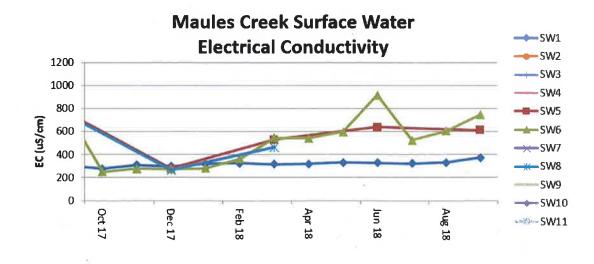


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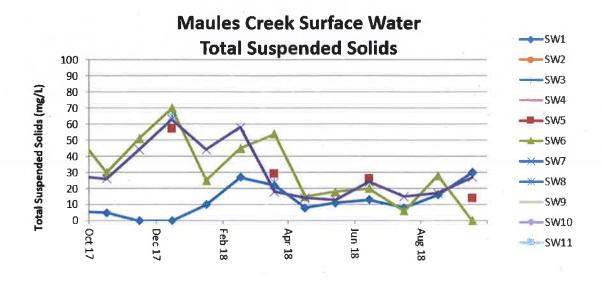
Electrical Conductivity

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 is 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.



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Rehabilitation

The rehabilitation phase of bulk shaping of the lower benches on the northern dump is ongoing.

Feral Animal Management

During the most recent routine Whitehaven Offset Area Feral Animal Control program the results included: 0 pigs from the Maules Creek area (from 30 trap days but all dams were dry at the time) and 32 Foxes.

Weed Management

Minimal weed control has been undertaken due to prevailing dry conditions however Spring seasonal weed spraying is scheduled to ramp up given recent rain.

Community Complaints

22 complaints were received during Q3 2018. Please refer to the *Community Complaints Register* published on the Whitehaven Coal Maules Creek website.

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