

**MOOLARBEN COAL OPERATIONS - COMMUNITY CONSULTATIVE COMMITTEE
MEETING No. 50**

Date: Tuesday 10th September 2019
Time: 4:03pm
Location: Moolarben Coal Open Cut Administration Board Room, Ulan
Attendance: Independent Chairperson
Lisa Andrews (LA)

Community Members

Andrew Palmer (AP) *{arrived at 4.05pm}*
Bev Smiles (BS)
Helen Ungaro (HU)
Julia Imrie (JI)
Aleisha Lonsdale (AL)

Moolarben Coal Operations

Steve Archinal (SA)
Graham Chase (GC)
Trent Cini (TC)
Mathew Croake (MC) *{Minute taker}*

Apologies

David Stokes (DS)
Cr John O'Neil (JO)

A hard copy of the Agenda and Meeting 50 Presentation was provided to all attendees.

1. Introduction and Welcome

Lisa Andrews (LA) opened the meeting and welcomed all attendees to the Moolarben Coal Operations (MCO) CCC.

2. Apologies

David Stokes (DS)
Cr John O'Neil (JO)

3. Business Arising from Previous Finalised Minutes

There was no business arising from Meeting 50.

Correspondence

Correspondence to and from meeting 49 included the following:

- 12/6/19 – Draft minutes sent to CCC members for review/comment.
- 21/6/19 – Finalised minutes sent to CCC members with advice on IPC determination
- 25/6/19 – Email from Julia Imrie requesting water data for the next CCC.
- 8/7/19 – Email from MCO providing the additional groundwater data, which was provided to all members.
- 31/8/19 – Email to members with the Meeting Notice & Agenda for this meeting with Correspondence Report.
- 2/9/19 – Email from BS - request for Drip Deed update.
- 2/9/19 – Email from JI - request for water data.

CCC Update Presentation

GC provided an update on the community Support Program (CSP) including events and initiatives supported by MCO, along with upcoming events MCO are also supporting.

TC provided an operational update.

TC provided an exploration update.

TC provided an update on environmental monitoring including water quality. JI asked about the Independent Water Quality Study (IWQS). GC advised the University of Queensland – Sustainable Minerals Institute (UQ) has been endorsed by DPIE, in consultation with the EPA, to complete the study. GC advised the study is due to be completed by December 2021. JI asked how far the study will extend. GC advised the scope is being developed by UQ and will be in consultation with the EPA. JI asked if UQ will be drawing on local knowledge, stating that she has relevant qualifications and research experience that would be of some assistance. BS asked if the CCC can see the scope. GC advised MCO will provide an update on the IWQS to the CCC at the next meeting. **Meeting 50 Action 1** – MCO to provide an update on the IWQS at the next meeting.

JI asked how the rehab is performing with the dry weather. TC advised rehab is under climatic stress, however monitoring to date is showing the rehab is still trending towards completion criteria.

BS asked if other SW sites are being monitored. TC advised MCO monitors the SW sites in the monitoring program when they are flowing.

TC provided an update on air quality. JI enquired whether the air quality data is just for August 2019. TC confirmed the data is showing an annual average. JI asked if MCO can show the range recorded for air quality data to the CCC as averages do not capture the daily fluctuations in air quality. General discussion of annual average and 24 hour monitoring. GC advised more air quality data is available on the MCO website. BS asked if MCO has to report PM2.5 monitoring results. TC advised MCO will be required to monitor PM2.5 on approval of the updated Air Quality Management Plan. BS asked if the PM10 annual average limit is 25. GC confirmed the PM10 annual average limit was updated from 30 to 25 as result of Modification 14.

TC provided an update on noise monitoring and community complaints. BS asked if MCO is still acquiring properties. GC advised that MCO has made no recent purchases. BS asked if the CCC can be advised of the last property purchase. **Meeting 50 Action 2:** MCO to advise on the last purchase of private land.

TC provided an update on Rehabilitation and Biodiversity Offset Management.

BS asked if the groundwater data can be included in the CCC presentation. **Meeting 50 Action 3** – MCO to include Groundwater data at the next meeting. GC advised that the review and analysis of groundwater data will be available in the Annual Report.

GC provided an employment update.

GC provided information on the UG4 Ancillary Works Modification. JI asked why the RSIA is on the northern side of Bora Creek considering the risk of erosion and impact on remnant woodlands. GC advised the location of the RSIA area is dependent on the location of first workings to UG4. BS asked if the proposed activities are outside the original assessment. GC outlined that planning approval is required for new works and advised that the activities in the UG4 Ancillary Works Modification will require planning approval. BS asked why the modification is happening now. GC informed the CCC that following on from the original plan for UG4, more detailed work has been undertaken, which includes some minor changes that have been identified for the safe and efficient operation of the mine.

JI asked if there is a need for more ventilation fans or dewatering bores in the UG4 area in addition to what is being proposed in MOD 15. GC confirmed a downcast shaft with no fan has been included in the modification and that no additional ventilation fans are required for UG4. JI asked how PZ129 would be affected by the close location of a proposed northern dewatering bore and its ability to monitor potential impacts from LW mining on the Drip. GC advised that monitoring will be considered in revisions of water management plans and the extraction plan that is required prior to secondary extraction in UG4, in the vicinity of the Drip and PZ129. BS asked what the additional works at the PZ129 site are. GC advised the additional works at the currently approved dewatering site include increasing the size of the drill pad area. BS asked MCO to provide the distance from the dewatering sites to the Goulburn River. **Meeting 50 Action 4** – MCO to provide distance from dewatering sites to the Goulburn River. JI asked what monitoring methodology including triggers will be used to ensure compliance of “nil impacts” on the Drip and Goulburn River and how will MCO address the potential lag time or delayed response of groundwater to mining drawdown?. GC advised triggers are in the GWMP and will be progressively revised and updated. BS asked how the modification process proceeds. GC advised that an application would be submitted to the Department and that the Department would determine the consultation and assessment process, and is expected to include referral to the IPC.

AL asked if there is flexibility with the location of the RSIA area in relation to Bora Creek. AL advised there is community concern regarding the impact to five heritage sites (4 low significance and 1 high scientific significant) in the vicinity. GC advised the location is determined by the first workings to UG4 and flooding extents. JI asked if this mod is Modification 15. GC confirmed it will be Modification 15. BS asked how MCO will manage impacts to the Offset. GC explained the offsetting mechanisms available to MCO including the Gilgal offset. BS asked if the modification would be referred for EPBC approval. GC advised that this was currently being considered. **Meeting 50 Action 5:** MCO to advise the CCC of EPBC referral.

GC confirmed MCO will advise LA when the UG4 Ancillary Works Modification is on public exhibition.

4. General Business

LA advised that the Department of Planning has changed its name to the Department of Planning, Industry and Environment.

Jl asked if the CCC could receive updated GW monitoring data on a regular basis at future meetings as impacts on the groundwater system was a key concern with mining UG4. GC advised the next round of monitoring is due to be undertaken in October. Jl asked what the EC level from the UG. GC advised the EC level from underground varies but is generally around 1500, and the average dewatering from the UG operations including water input and recirculation is approximately 80lps. Jl commented that this indicates an increase in groundwater make from last meeting that is not related to rainfall recharge considering the ongoing dry conditions. General discussion of dewatering works in underground, including advanced dewatering of first workings towards UG4.

GC advised that there is currently no dewatering from the Northern Borefields.

GC provided an update on the Drip Deed. Certificates of Title have been issued from Land Registry Services enabling the process to continue. Easements are currently being registered and OEH are currently reviewing documents. **Meeting 50 Action 6** – MCO to provide an update on the progress of the Drip Deed.

AL asked if the process for assessing heritage impacts and changes is the same as assessing other components of the Modification. GC advised each assessment is undertaken on a case-by-case basis.

5. Next Meeting: 26th November 2019 – 4:00pm.

Meeting Closed at 5:04pm.

Action Items:

Item	Action	Responsibility
1	MCO to provide an update on the IWQS at the next meeting.	MCO
2	MCO to advise on most last purchase of private land.	MCO
3	MCO to include Groundwater data at the next meeting.	MCO
4	MCO to provide distance from dewatering sites to the Goulburn River.	MCO
5	MCO to advise the CCC of EPBC referral	MCO
6	MCO to provide an update on the progress of the Drip deed.	MCO

Community Consultative Committee Update

September 2019



Community Support Program

Recent Community Support Events & Initiatives

- Masters Football Competition
- Watershed Landcare Green Day
- Max Potential
- Mudgee Readers Festival
- Mudgee Running Festival
- AUSImm Women In Mining 'Be Inspired' Breakfast event:
 - ❑ Attended by 70 industry representatives and local high school students
 - ❑ 2 speakers from Moolarben - Open Cut operator and apprentice mechanic.



Upcoming Events and Initiatives

October

- Mathematical Minds Competition 2019
- Sculptures in the Garden 2019

November

- Rylstone Street Feast

MORE EVENTS TO A BE ANNOUNCED SOON



Operational Update

- Operations continue in OC2 & OC4.
- Longwall move to LW103 in Progress.
- UG development continues.
- Construction of Water treatment plant
- Commencing construction of OC3 MIA
- Preparing MOP replacement and reviewing EMPs.



Exploration Update

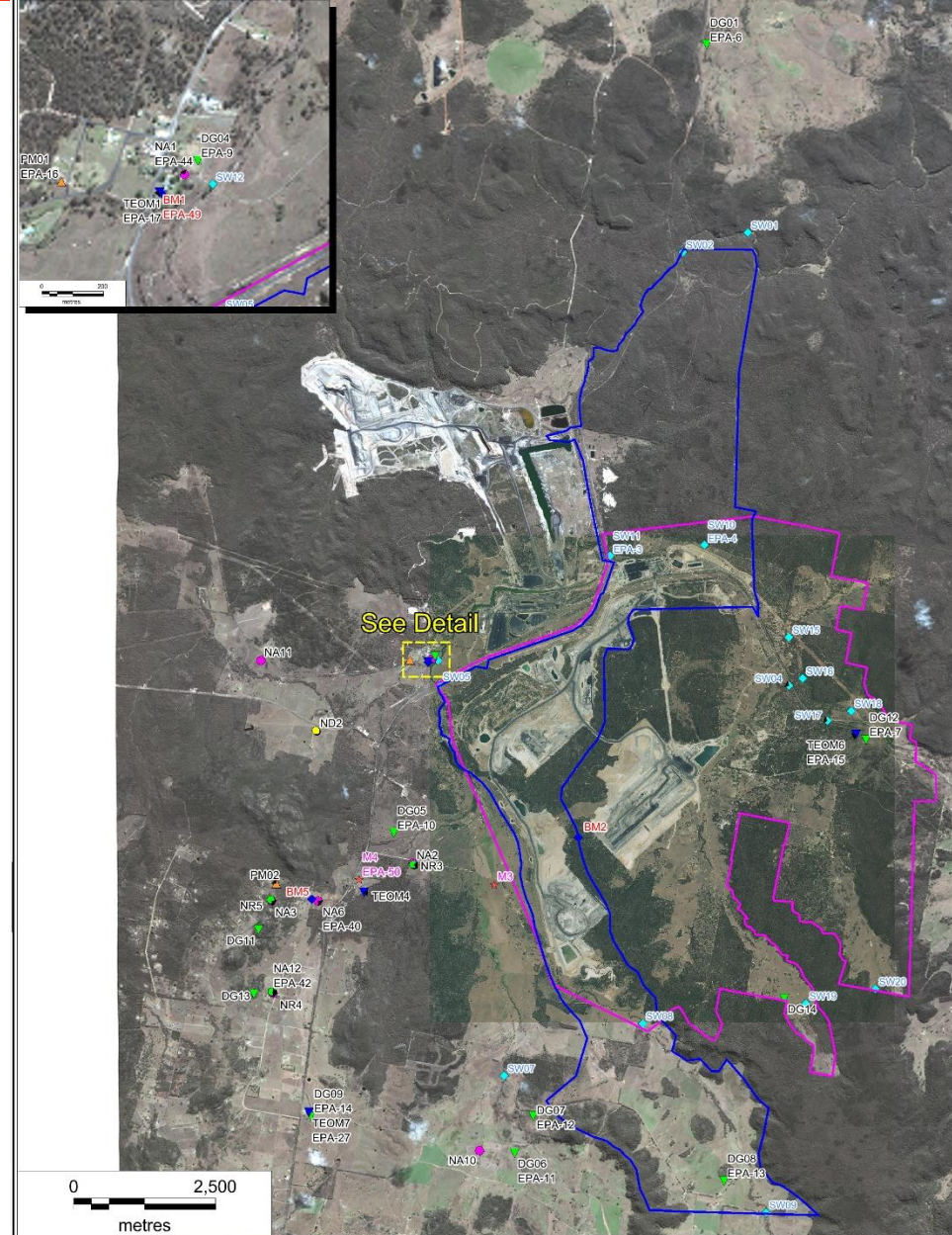
- Resource definition continued in EL7073 and EL6288.
- Resource delineation continued in OC4 and UG1
- Rehabilitation and monitoring activities have continued during the period.



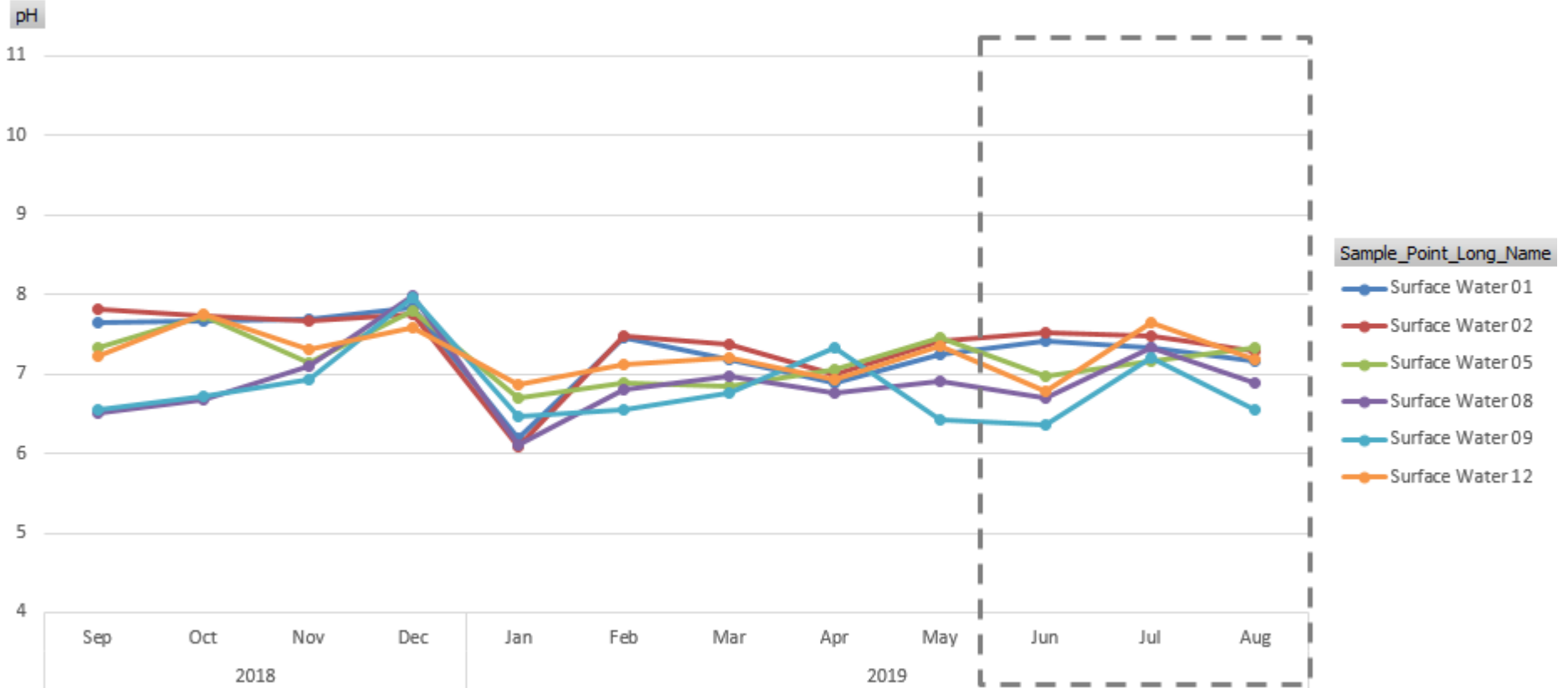
Environmental Monitoring

Monitoring network

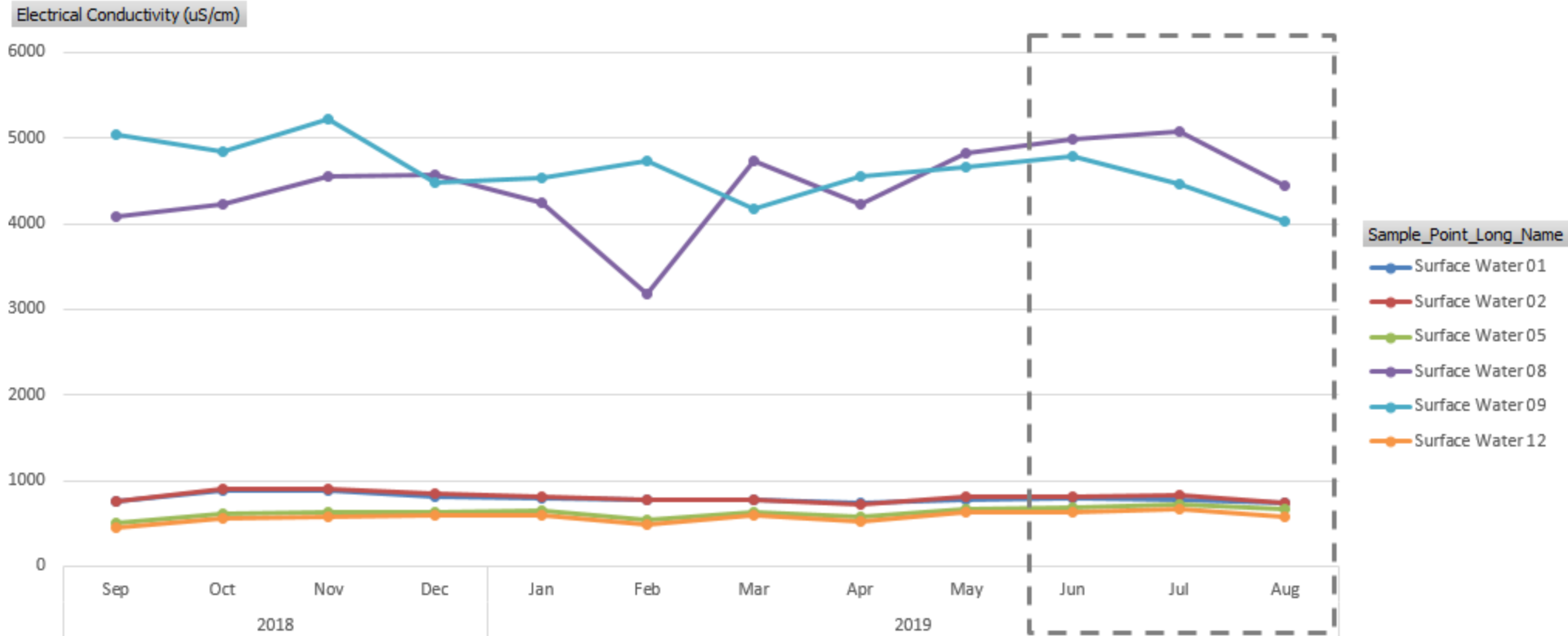
- Water;
- Air Quality;
- Blasting;
- Noise;
- Meteorology.



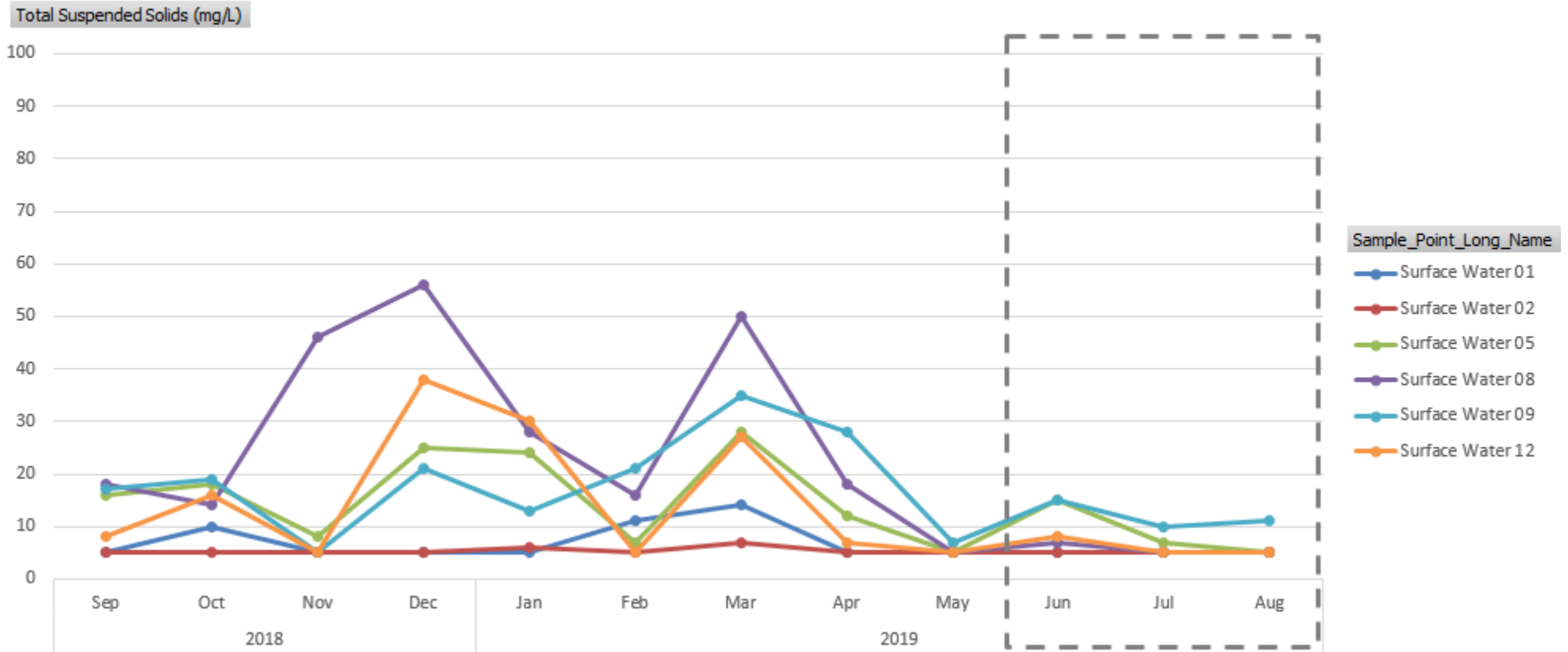
Water Quality - pH



Water Quality - EC



Water Quality - TSS



Air Quality

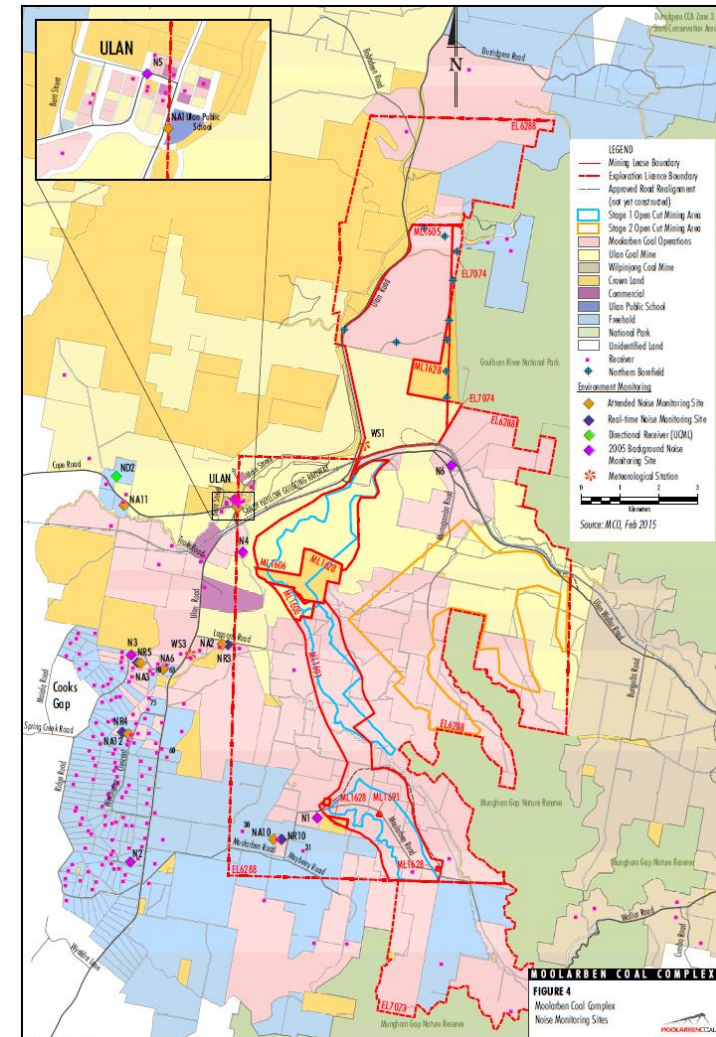
Site	August 2018 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	August 2019 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	Air Quality PM10 Annual Average Criteria ($\mu\text{g}/\text{m}^3$)
Ulan School	14.92	14.75	30.0
Ulan Road	15.22	15.23	30.0
Ulan-Wollar Rd	16.14	16.17	30.0

Monthly monitoring reports are available on our website:

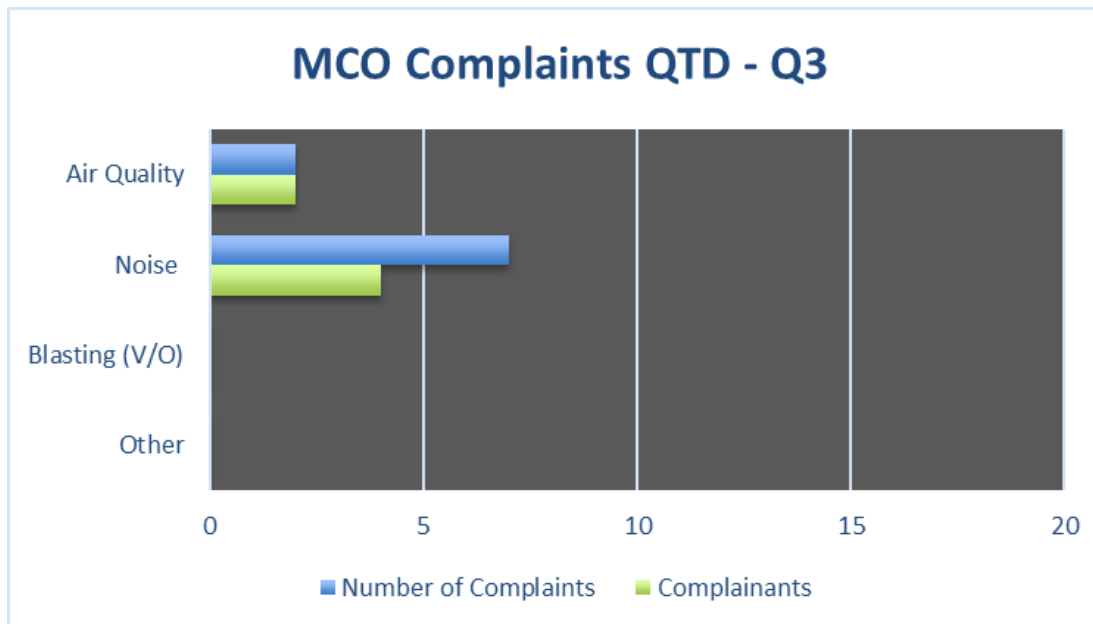
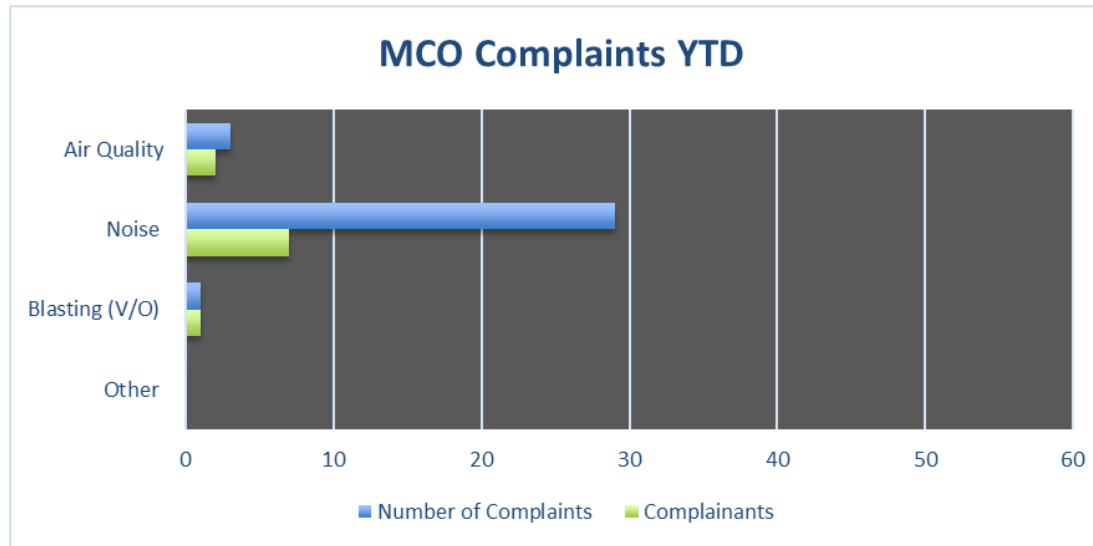
www.moolarbencoal.com.au/environment-and-community/monitoring-results/

Noise Monitoring

- All monthly & quarterly attended noise monitoring within criteria.
- Continued implementation of:
 - ❑ Planning controls - scheduling
 - ❑ Engineering controls - attenuation
 - ❑ Operational controls - bunds/screens
 - ❑ Real-time monitoring triggers
 - ❑ Real-time response protocols



Community Complaints



Rehabilitation Update

- Rehabilitation maintenance works are continuing.
- Approximately 20ha of Landform establishment completed



Biodiversity Offset Management

- Targeted weed control programs continued across BOA's.
- Scrap steel and general waste removal continued from BOA's.
- Continued participation in baiting programs in conjunction with the LLS and wild dog groups.
- 1,000 trees planted on the Bobadeen Offset, preparations for future plantings underway.



Employment Update

Traineeships

- Currently 10 OC and 16 UG

Apprentices

- Currently 8 Underground & 17 Open Cut

General

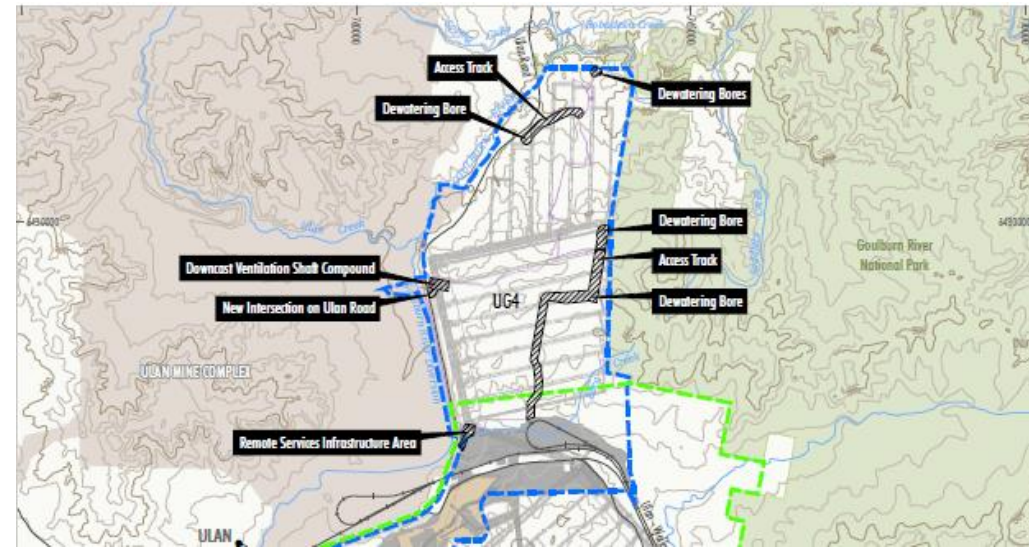
- Apprentice Information Night held at Club Mudgee
- 2 School mine tours



UG4 Ancillary Works Modification

Modification Overview

- Modification to Stage 1 Project Approval
- Involves changes in ancillary surface infrastructure to support safe and efficient mining of the approved UG4 underground area.
- Remote services infrastructure area.
- Downcast ventilation shaft compound and associated infrastructure, including new site access via Ulan Road.
- Additions and amendments to dewatering bore sites and associated infrastructure.
- No changes to the approved underground mining (longwall layout, mining rate, etc.).



UG4 Ancillary Works Modification
Indicative Surface Infrastructure Area

LEGEND

- NSW National Parks and Wildlife Service
- Other Mining Operations
- Mining Lease Boundary
- Existing/Approved Development
- Open Cut Mining Area
- Out-of-pit Emplacement
- Surface Infrastructure Area
- Pipeline and Borefield Infrastructure
- Clean Water Diversion Infrastructure
- Underground Longwall Layout
- Haul Road
- Road Realignment (not yet constructed)
- Approved Stage 1 Project Boundary
- Approved Stage 2 Project Boundary

UG4 Ancillary Works Modification

Statement of Environmental Effect

The following environmental assessments/reviews are proposed to be included in the Statement of Environmental Effects:

- Surface Water.
- Flooding.
- Noise
- Air Quality.
- Groundwater
- Biodiversity.
- Aboriginal Cultural Heritage.
- Road Transport.

Statement of Environmental Effect is being prepared to be lodged with DPIE in late September/Early October.

Thank you

September 2019

