

MOOLARBEN COAL OPERATIONS - COMMUNITY CONSULTATIVE COMMITTEE
MEETING No. 46

Date: Tuesday 11th September 2018
Time: 4:01pm
Location: Moolarben Coal Open Cut Administration Board Room, Ulan
Attendance: Independent Chairperson
Lisa Andrews (LA)

Community Members

Bev Smiles
Cr Des Kennedy – Mayor (Mid Western Regional Council)
Helen Ungaro (HU)
Julia Imrie (JI)

Moolarben Coal Operations

Steve Archinal (SA)
Graham Chase (GC)
Trent Cini (TC)
Michelle Frankham (MF)

Apologies

Aleisha Lonsdale (AL)
Andrew Palmer (AP)
Cr John O’Neil (Mid Western Regional Council)
David Stokes (DS)

A hard copy of the Agenda and Meeting 46 Presentation was provided to all meeting attendees.

1. Introduction and Welcome

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

2. Apologies

Aleisha Lonsdale, Andrew Palmer, Cr John O'Neil (Mid Western Regional Council), David Stokes.

3. Business Arising from Previous Finalised Minutes

Meeting 45 Action 1 - *Send link to revised 2017 AR to CCC once completed. Complete*

Meeting 45 Action 2 – *MCO to provide hardcopy of revised Annual Review to JI. Complete*

4. Correspondence – as issued to members with the Meeting Notice

Correspondence to the CCC since meeting 44 included the following:

- 20/6/18 – Draft minutes sent to CCC members for review/comment
- 5/7/18 – Finalised minutes sent to CCC members
- 7/7/18 – Email to members providing water data requested in the June meeting by JI.
- 10/7/18 – Email from Cr O'Neill regarding the proposed Moolarben Rd Closure advertising. This email was forwarded on to members.
- 24/8/18 – Email to members with the Meeting Notice & Agenda for this meeting.
- 4/9/18 – Email from Julia Imrie requesting information on bore heights, extraction volumes, water quality and average daily inflow data. This email forwarded through to MCO for action.
- 8/9/18 – Email to CCC with correspondence log.

CCC Update Presentation

GC provided an update on the Community Support Program, visitors to site, and an operational update.

JI asked whether MCO is required to reinstate Moolarben Road at the end of mining. GC advised MWRC had resolved to seek the road be re-opened on completion of mining in the area. MCO will engage with Council at the end of mining to determine the future use of the Road.

GC provided a drilling and exploration update.

TC provided an update on environmental monitoring include water quality.

BS asked whether there was no flow at most surface water monitoring locations. TC confirmed that due to the below average rainfall received to date most monitoring sites had insufficient water to sample.

TC provided an update on air quality, noise monitoring and community complaints.

BS enquired about the number of people complaining. **Meeting 46 Action 1:** *Update community complaints graph to include number of complainants, and the last quarter's results.*

BS asked where most community complaints are coming from. GC advised the complaints come from the vicinity of Ridge Road.

BS asked whether the complaints number are concentrated during winter. GC confirmed there was a higher number of complaints during the early winter months.

BS asked about the process for investigating complaints. GC discussed the 24hour complaints line, investigation at the time of the complaint and responses to complainants. The process of operational shut-downs and adjustments was discussed, being based on observations following real-time triggers, complaints or general observations.

BS asked whether MCO shuts down operations when there is lightning. GC confirmed and noted that a lightning detection system is utilised with operations are shut down accordingly.

BS asked about the target rehabilitation area for 2018. TC answered that areas are being shaped for rehabilitation, with final seeding to be determined by climatic conditions.

Jl made reference to the current lack of rainfall and asked whether MCO has irrigated rehabilitation? TC advised irrigation of the rehabilitation has not been undertaken during the current drought.

Jl asked whether MCO liaises with Cooks Gap Bushfire Brigade. TC confirmed that MCO has discussed the Bushfire Management Plan (BFMP) with Cooks Gap Bushfire Brigade. GC advised that the Cooks Gap Rural Fire Service Trainer is on MCO's staff remains updated on management of bushfire mitigation. Jl asked what types of bushfire maintenance MCO undertakes? TC advised onsite maintenance access trails are inspected and slashed or mulched. Jl asked about management of hazards such as coal stockpiles. TC confirmed that the Bushfire Management Plan identifies high risk areas and maintains buffers around these areas as an active management technique.

BS asked about the southern Biodiversity Offsets. TC confirmed that MCO has two Biodiversity Offset properties south of Mudgee. The BFMP encompasses these properties.

Jl asked where the image of wild dogs in the presentation was captured. TC advised that the photo was taken on the Redhills property, located proximate to the MCO CHPP. TC advised that the dogs have not taken baits and that trapping options, as well as additional baiting programs, are being investigated.

Jl & BS suggested that current number of wild pigs were a greater problem and whether MCO were undertaking pig baiting programs. TC confirmed that pig baiting is undertaken using grain. GC advised rural licence holders also bait for pigs.

GC provided an employment and recruitment update and an update on the Open Cut Optimisation Modification. Jl asked what information the DPE requested. GC advised questions related to the proposed water treatment facility, water discharges, and consultation with overlapping exploration leases holders.

Jl asked which exploration lease holders required further consultation. GC answered Hunter Gas, Santos, and Bowdens Silver which overlap the Gilgal Biodiversity Offset Area.

5. General Business

BS asked where the completed exploration in EL6288 was conducted. GC confirmed exploration was undertaken in the south of the licence, in the Moolarben valley. BS asked about the size of EL6288. The location of EL6288 was indicated on the presentation screen.

BS asked if EL6288 had been renewed. MF advised that the renewal was submitted in 2017. MF advised that the conditions of the existing Licence remain current until the Department renews the application. GC noted that each exploration program is approved by the Division of Resources and Geosciences.

Jl referred to her email request for information regarding bore heights. GC advised the Underground 1 inflow is currently 70-80L/seconds, including recirculation, water supply and ground water inflows.

Jl asked the extraction volume from the Northern Borefields. GC advised 6ML year-to-date has been extracted for advanced dewatering.

The requested groundwater level monitoring information was provided to the CCC.

Jl asked what the total surface water storage volume onsite. **Meeting 46 Action 1:** GC to provide total surface water storage volume to Jl.

Jl asked the water quality of the inflows into UG1. GC noted that water quality is monitored on the dams not the pumped water and advised the quality is comparable to existing mine water quality.

Jl asked whether there is any attempt to separate out water with differing qualities through advanced dewatering. GC advised the Northern Borefields extraction will be able to achieve this, and that there is little opportunity for UG1.

BS asked where the water inflows in UG1 are coming from. GC advised the water is coming from the coal seam (insitu water), overlying strata, supply for the UG operations and recirculation from storages up dip. BS noted that the original groundwater model predicted less inflows.

BS asked whether water from water storages report back into UG. GC confirmed that this occurs. BS asked whether the change from the original groundwater model predictions is related to the volume of water in the coal seam? GC advised that the model has been re-built, considering current information and has resulted in a number of changes.

Jl noted that monitoring showing significant groundwater declines in the Permian coal measures and suggested the Triassic would be related to UG1 dewatering. GC noted that MCO continue to monitor and review groundwater levels.

6. Next Meeting: 27th November 2018 – 4:00pm.

Meeting Closed at 4:40pm

Action Items:

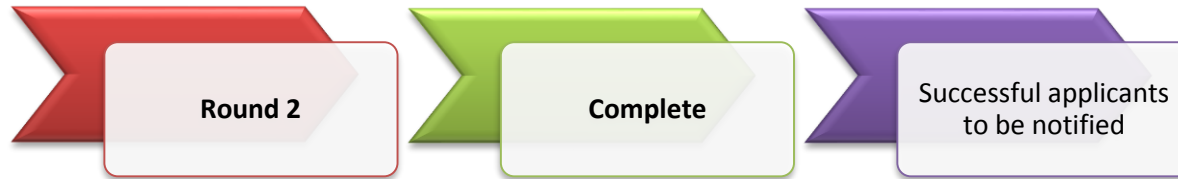
Item	Action	Responsibility
1	Update community complaints graph to include number of complainants, and the last quarter's results.	GC
2	MCO to provide total surface water storage volume to next meeting	GC

Community Consultative Committee Update

September 2018



Community Support Program



Upcoming Community Support Events:

- Sculptures in the Garden
- Rylstone Street Feast
- Watershed Landcare Green Day
- M3 Maths Challenge
- Gulgong Bowling Tournament
- Gulgong Gold and Mining Festival



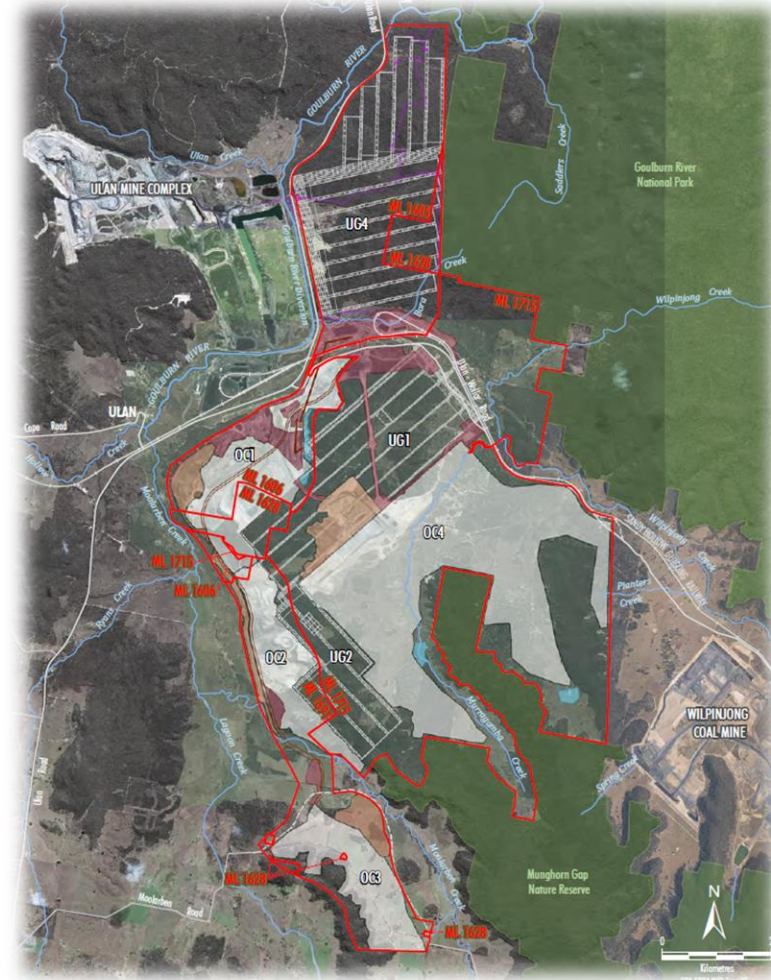
Visitors and Events

- Mine Rescue Competition
- “Skills for Trade” site visit
- Dunedoo and Mudgee High School site visits.
- MEET Site Visit and Conference in Mudgee



Operational Update

- Open cut operations in OC2 & OC4.
- Landform shaping in OC2 to commence
- Longwall 102 commenced.
- UG development continues.
- MWRC resolved to apply for closure and sell Moolarben road.



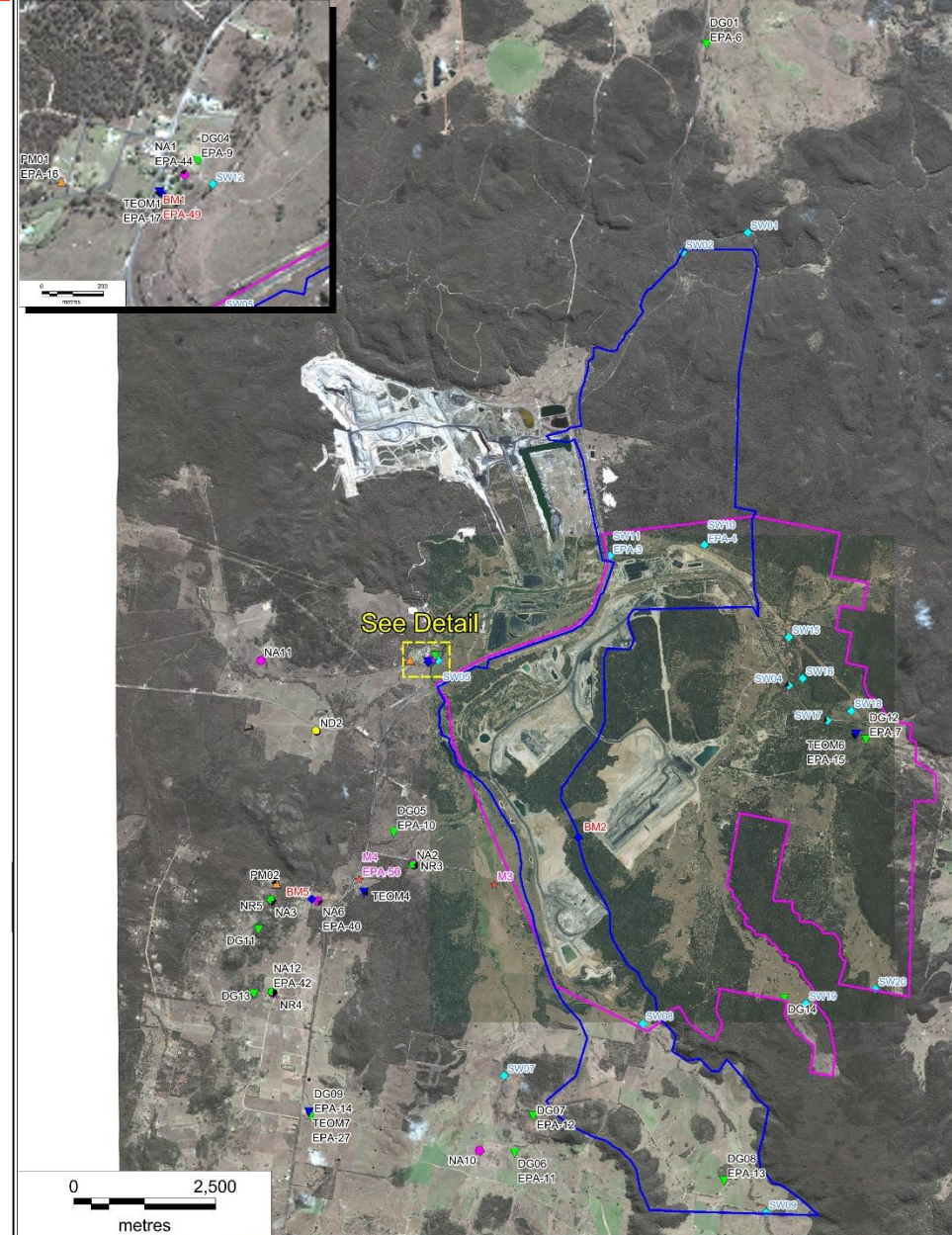
Exploration Update

- Exploration program completed in EL7073 and EL6288.
- Resource delineation continued in OC4 & OC3.
- Resource delineation commenced in UG2.
- Rehabilitation and monitoring activities have continued during the period.

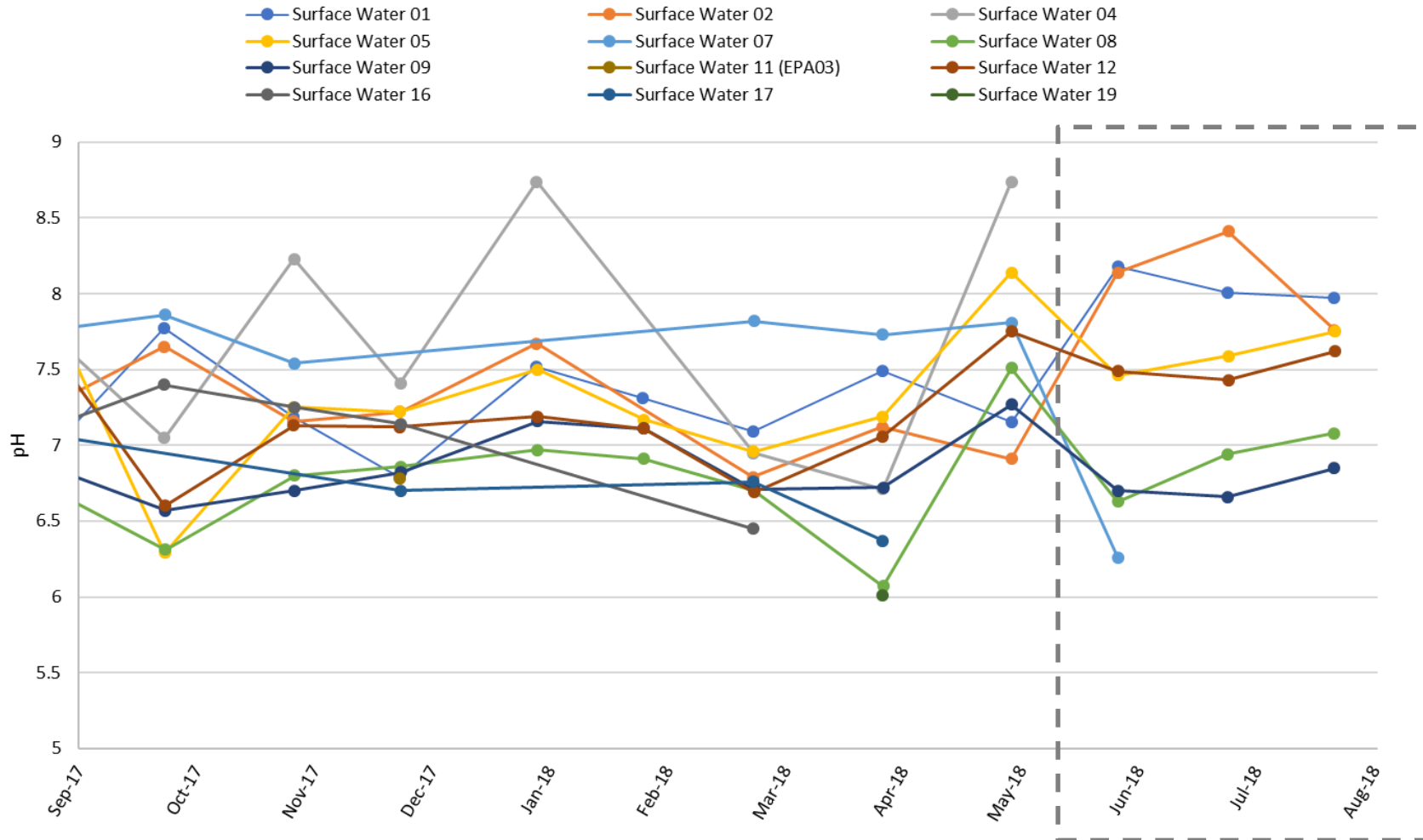


Environmental Monitoring

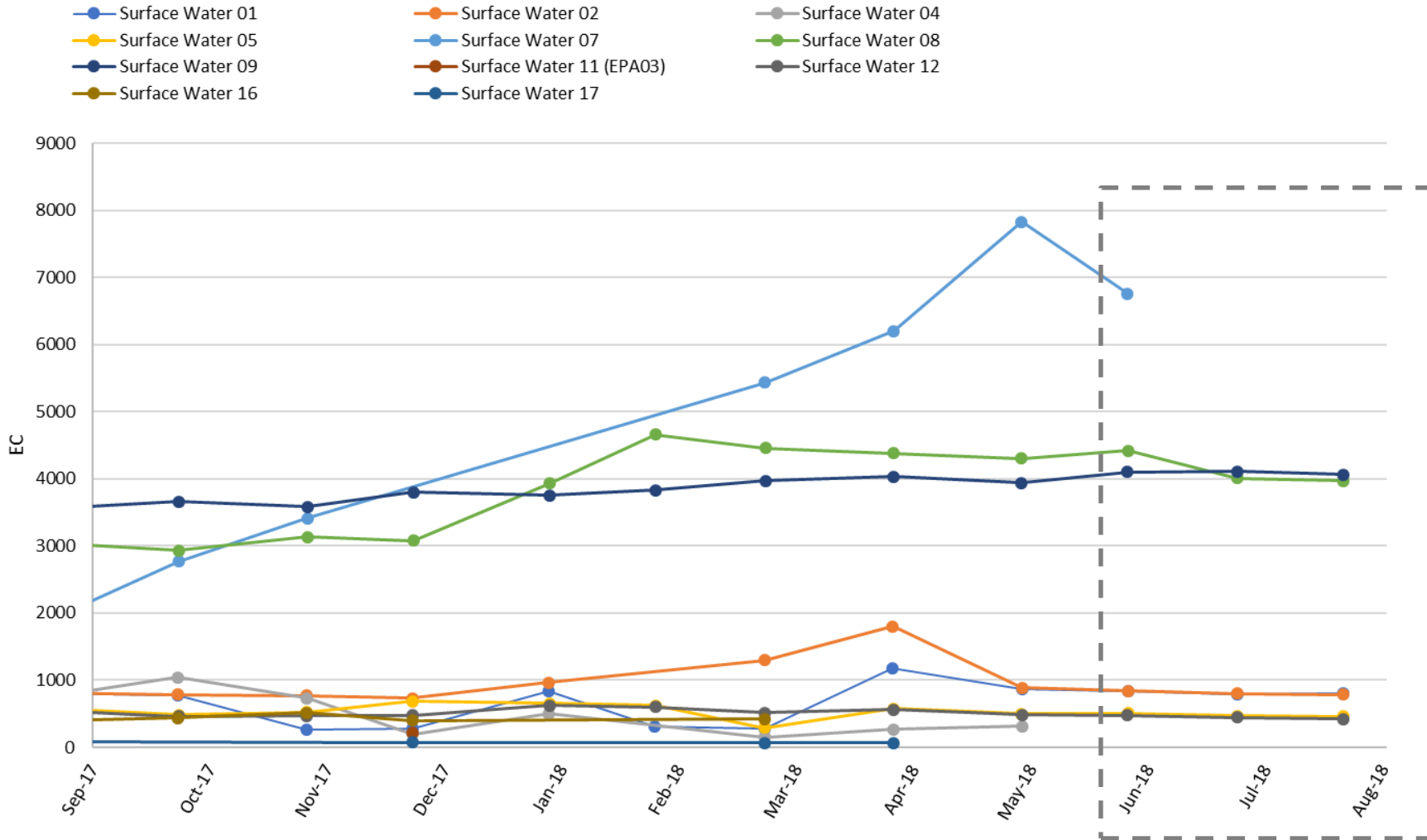
- Monitoring network
 - Water;
 - Air Quality;
 - Blasting;
 - Noise;
 - Meteorology.



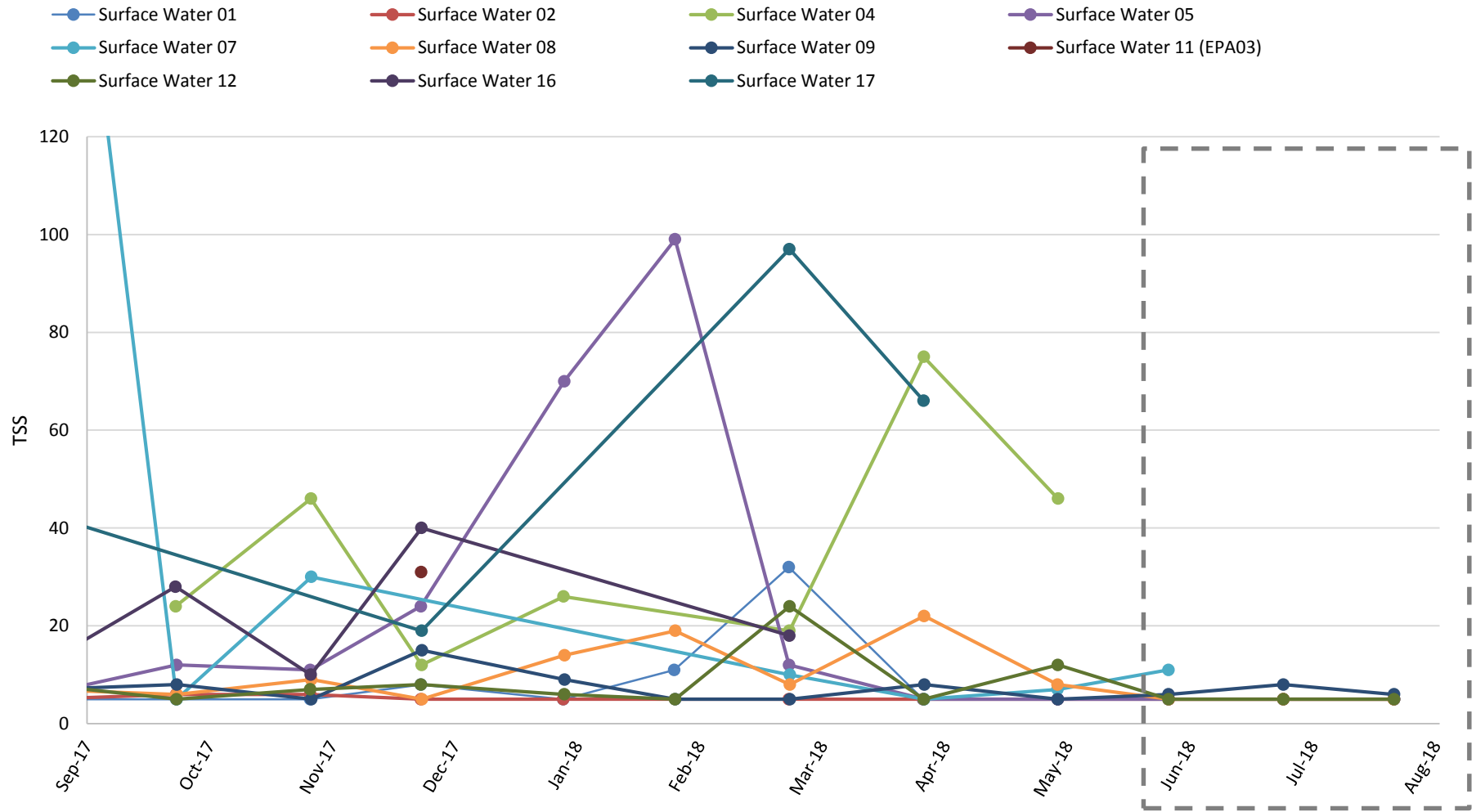
Water Quality - pH



Water Quality - EC



Water Quality - TSS



Air Quality

Site	August 2017 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	August 2018 PM10 Annual Average ($\mu\text{g}/\text{m}^3$)	Air Quality PM10 Annual Average Criteria ($\mu\text{g}/\text{m}^3$)
Ulan School	11.7	14.94	30.0
Ulan Road	-*	16.08	30.0
Ulan-Wollar Rd	11.6	15.12	30.0

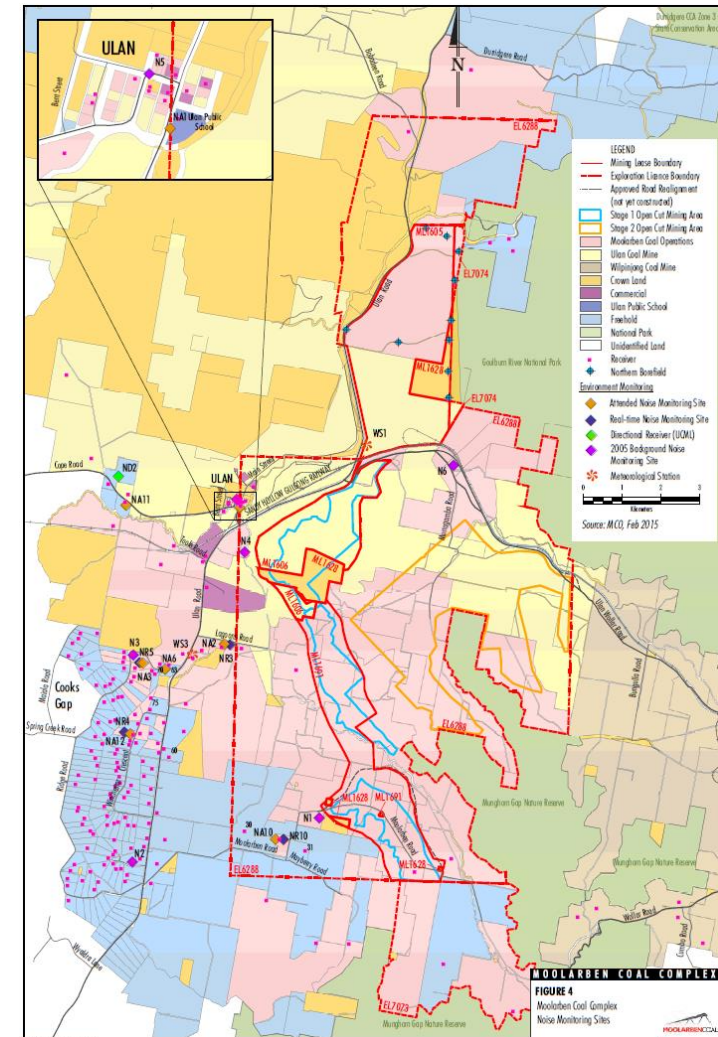
*Insufficient data available to calculate rolling annual average. Unit installed August 2017

Monthly monitoring reports are available on our website:

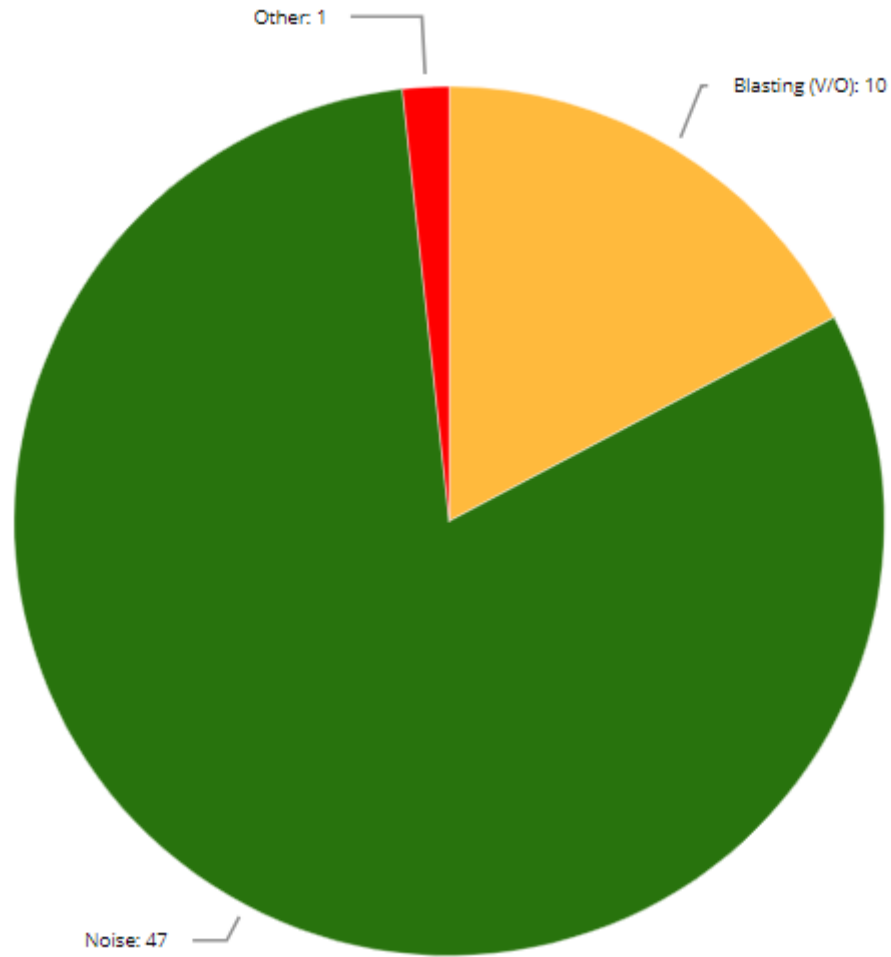
www.moolarbencoal.com.au/environment-and-community/monitoring-results/

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

- Spring monitoring has commenced
- Rehab maintenance works are continuing during 2018
- Preparations have commenced for the remaining rehabilitation areas for 2018



Biodiversity Offset Management

- Targeted weed control programs continued across BOA's.
- Continued Wild Dog management programs across all BOA's in conjunction with LLS and neighbours
- Spring Monitoring is currently underway
- Bushfire management preparations have commenced



Employment Update

Traineeships

- Currently 4 Underground and 16 Open Cut

Apprentices

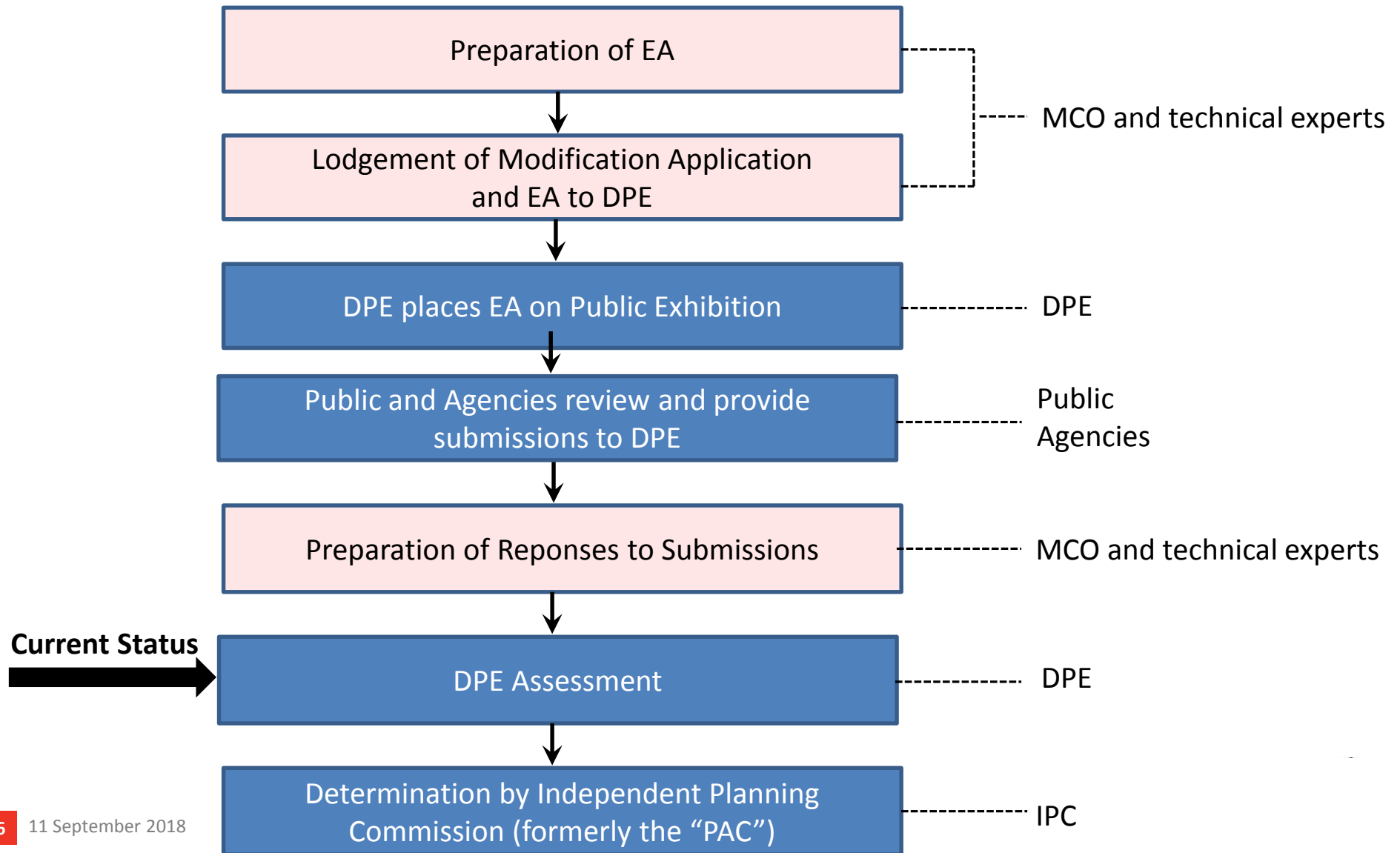
- Currently 5 Underground & 15 Open Cut

General

- 6 Underground Trainees commenced 10 September



Open Cut Optimisation Modification Update



Community Consultative Committee Update

THANK YOU

September 2018