

**Minutes of the 28th Meeting of the
Sunnyside Coal Mine Community Consultative Committee**

Meeting Held: Wednesday 13th February 2019, 15:30pm

Venue: The meeting was held at Namoi Valley Brickworks

1. Present and Apologies

Present: Michael Broekman (MB) (Chairperson)
Craig Sullivan (CS) (Operations Superintendent/MEM- Whitehaven)
Andrew Raal (AR) (Environmental Officer- Whitehaven)
Ron Fuller Ron Fuller (RF) Community Representative
Liz Ferguson (LF) (Community Representative)

Apologies: Tim Muldoon (TM) (Manager Community Relations - Whitehaven)
Colleen Fuller Colleen Fuller (CF) (Gunnedah Shire Council Rep)
Andrew Johns (AJ) (Gunnedah Shire Council)

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion and confirmed by RF and LF.

3. Business Arising

CS mentioned that proposed changes to Coocooboona Ln entrance were communicated to the work force, and there is ongoing discussion with Gunnedah Shire Council over the traffic entrance and are awaiting for a site visit by council.

4. Operations Report

CS gave detailed production report for Year to date:

- 1.45 Mt bench m³ of overburden stripped
- 200,000 t coal mined
- 12,700t transported to Gunnedah CHPP (Dec, Jan, Feb)
- 537 loss time injury free days.

Number of employees remains the same. Production is scheduled to cease in last quarter 2019, after which current planning is to rehabilitate the mine using in-house equipment and personal. RF discussed the current high strip ratio. CS indicated it was due to in pit coal loss from geological intrusions and structure as well as some rehandling of in pit overburden.

5. Environmental Report

AR presented environmental results and records of complaints, which are include in the Environmental Monitoring Report.

High dust results were discussed and agreed it was due to external factors to Sunnyside Coal Mine. Slight drop ($\pm 1\text{m}$) in groundwater levels on monitoring bores due to lack of rainfall recharge. LF indicated that they had also seen groundwater levels drop on their property. Extensive discussion was held on water availability for mining and what happens when water runs out. RF made the suggestion that we can source water from underground working of historic mines at Brickworks.

AR mentioned that the Closure Mine Operational Plan was approved in January, as well as the alteration to the final landform of the void to make it free draining post closure.

LF mentioned a lack of koala sighting in the area. AR noted that there were 3 sighting during the year by mine employees, and an additional 4 during the annual ecological survey.

LF also mentioned that there are high number of kangaroos in the area due to drought. AR noted that two camera traps were installed to monitor roo numbers, which could potentially be used for a culling program. LF and RF mentioned that a culling program is definitely required.

6. General Business

No general business

7. Next meeting

Next meeting scheduled for Wednesday 8th May 2019, at 3:30pm, at the Namoi Valley Brickworks.

Meeting closed at 16:45

Michael Broekman – Chairperson

Sunnyside Coal Mine Community Consultative Committee Meeting #28

Environmental Monitoring Report February 2019

Noise Monitoring

Attended noise monitoring was undertaken over three days on the 10th-12th December 2018, no non-conformance were recorded.

Air Quality Monitoring

Deposited Dust

November dust analysis for Innisvale was lost due to a laboratory crucible failure. The annual averages for deposited dusts at all monitoring locations remain below the criteria of 4g/m²/month. A number of sites in December and January had a high readings due to state wide dust storms.

Month	SD1 Ferndale	SD3 Plainview	SD4 Lilydale	SD5 Ivanhoe	SD6 Illili	SD7 Innisvale	SD8 Woodlawn
Feb-18	1.08	0.8	2.2	2.04	1.2	0.7	1
Mar-18	4	14.2	1.2	11.9	4.7	2.6	0.8
Apr-18	2.1	3.5	3.5	2.4	4.6	1.1	0.8
May-18	0.3	1.5	0.1	0.9	0.8	0.7	0.3
Jun-18	1.5	2.4	1.4	2.8	1.2	0.6	0.6
Jul-18	1.2	0.8	0.6	2.2	0.8	0.8	0.4
Aug-18	1.2	0.9	0.7	1	5.3	1.3	1.5
Sep-18	20.6	3.2	2	1.6	2.4	1.4	1.3
Oct-18	3.6	2	1.3	1.7	1	1.4	0.8
Nov-18	3.7	7.8	0.8	2	3.2	***	1.2
Dec-18	3.6	2.5	3.5	4.3	5.8 2	4.53	3.33
Jan-18	3.4	4.2	4.7	5.2	3.1	4.1	3.1
Average	3.86	3.65	1.83	3.17	2.8 4	1.75	1.26

*** Sample lost due to lab crucible failure

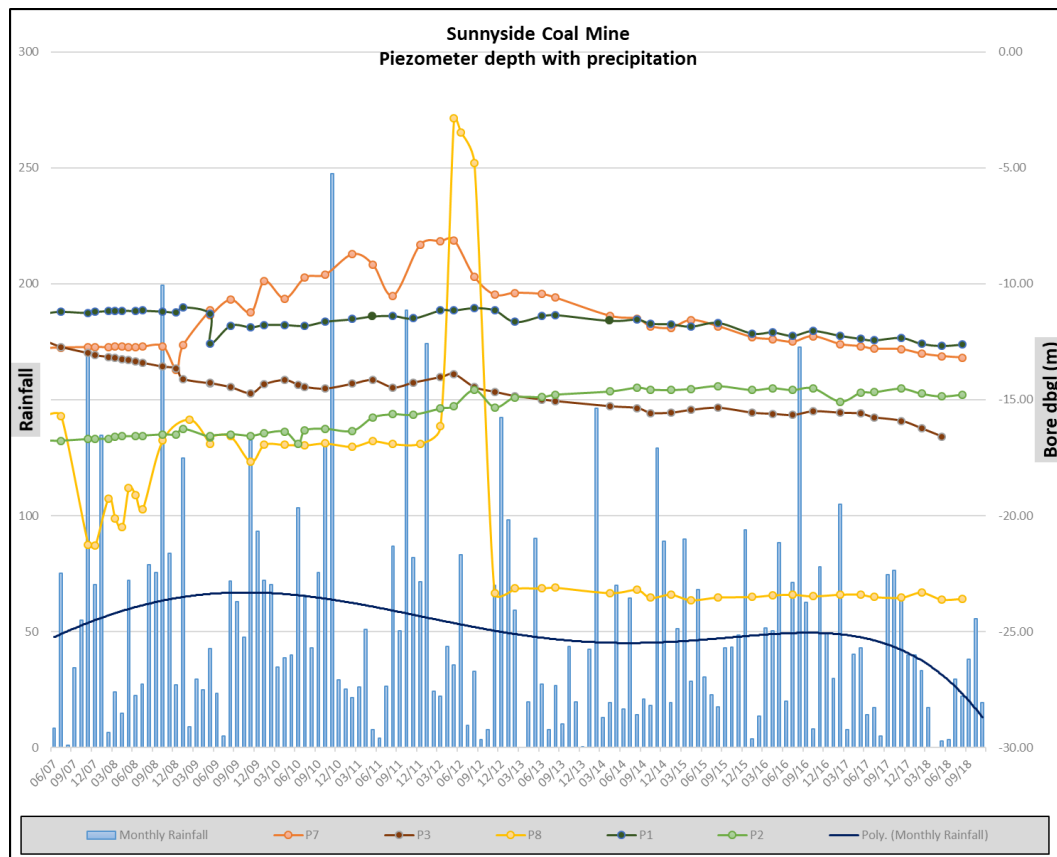
PM₁₀ Data

PM₁₀ measurements taken during the quarter had readings of 51.3 marginally above the 24hr limit of 50µg/m³. The 27th of December a reading of 57µg/m³ was recorded. The 12 month average is 57µg/m³. High dust reading are attributed to regional dust storms with the filter paper being covered with red dust. Discussions with other operations in the region and the laboratory noted that they had similar high dust readings.

Groundwater Monitoring

Groundwater monitoring is undertaken from a range of monitoring piezometers and water bores both within and surrounding the mine site. Standing Water Level (SWL) checks are undertaken on a quarterly basis, with full water quality sampling undertaken

on a 6 monthly basis. Standing water levels have dropped by 10cm, due to reduced rainfall, there is a very slight downward trend since September 2017. There has been a dramatic decline in monthly rainfall.



Surface Water

Surface water sampling of storages onsite continues to be carried out on a quarterly basis. Dams were dry except for pit void dam and actively used northern dam. There was no change in water quality.

No wet weather discharges occurred during the period.

Complaints

No complaints have been received for the Sunnyside Coal Mine since the previous CCC meeting.

Rehabilitation

Additional $\pm 80\text{m}^3$ of subsoil was recovered from pit mining operations to be used for rehabilitation.

Watering of planted tube stock was recommenced in late January due to dry and hot conditions.

Mine Closure MOP was approved in January. Coal mining operations are due to cease in last quarter of 2019.

**Minutes of the 29th Meeting of the
Sunnyside Coal Mine Community Consultative Committee**

Meeting Held: 15th May 2019

Venue: The meeting was held at Namoi Valley Brickworks

1. Present and Apologies

Present: Michael Broekman (MB) (Chairperson)
Craig Sullivan (CS) (Operations Superintendent/MEM- Whitehaven)
Andrew Raal (AR) (Environmental Officer- Whitehaven)

Apologies: Colleen Fuller Colleen Fuller (CF) (Gunnedah Shire Council Rep), Ron Fuller Ron Fuller (RF) Community Representative, Liz Ferguson (LF) (Community Representative)

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion and confirmed by MB and AR.

3. Business Arising

None

4. Operations Report

CS gave detailed production report for Year to date:

- 1.95 Mt bench m³ of overburden stripped
- 267,942 t coal mined
- 127,366t transported to Gunnedah CHPP (Dec, Jan, Feb)
- 630 loss time injury free days.

Number of employees remains the same. Production is scheduled to cease by last quarter 2019, Rehabilitation works have commenced.

5. Environmental Report

AR presented environmental results and records of complaints, which are include in the Environmental Monitoring Report.

Dams were filled due to two high rainfall events, no dam overflowed during storm events, one dam was sampled for water quality.

6. General Business

No general business

7. Next meeting

Next meeting scheduled for Wednesday 14th August 2019 at 3:30pm, at the Namoi Valley Brickworks.

Meeting closed at 16:00

Michael Broekman – Chairperson

Sunnyside Coal Mine

Community Consultative Committee

Meeting #29

Noise Monitoring

Next round of Noise monitoring will be undertaken in June 2019, and will include road traffic noise.

There has been no blasting since the 18th January 2019.

Air Quality Monitoring

Deposited Dust

The annual averages for deposited dusts at all monitoring locations remain below the criteria of 4g/m²/month. Ivanhoe had a high reading in March 2019, but long-term (12months) average is well below guideline.

Month	SD1 Ferndale	SD3 Plainview	SD4 Lilydale	SD5 Ivanhoe	SD6 Illilli	SD7 Innisvale	SD8 Woodlawn
Feb-19	1.5	1.2	1.2	1.5	2.1	2	1.3
Mar-19	2.4	1.2	1.2	6.9	3.3	2.4	2.9
Apr-19	3.9	3.7	3.7	3.2	1.6	2.1	1.4
Average	1.5	1.2	1.2	1.5	2.1	2	1.3

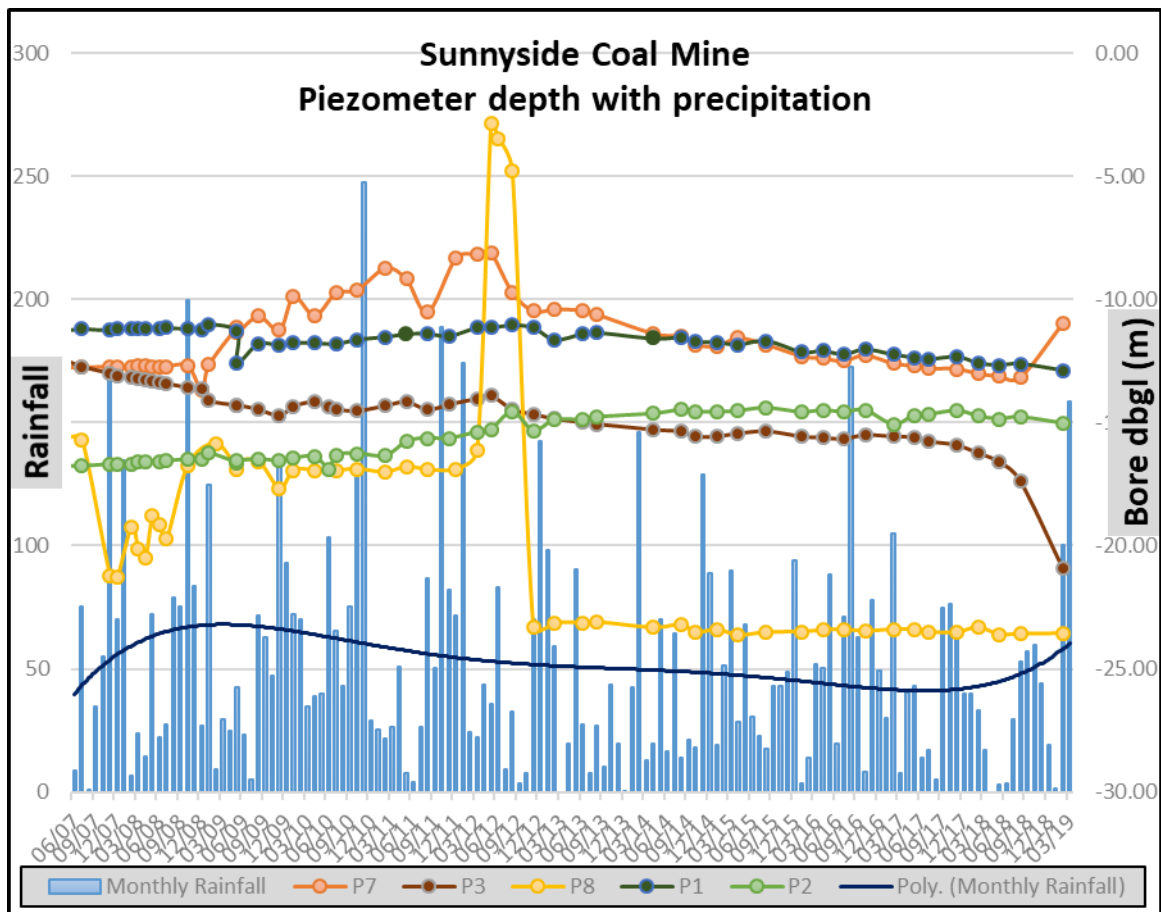
PM₁₀ Data

PM₁₀ measurements taken during the three months had high reading in February and March due to regional dust storms and agricultural activities. Average year to date is 39.65 µg/m³.

PM10, Illilli	
Date	µg/m ³
01-02-19	37.6
07-02-19	12.9
13-02-19	160
19-02-19	64.5
25-02-19	28.5
03-03-19	21
09-03-19	69.1
15-03-19	40.4
21-03-19	14.8
27-03-19	25.1
02-04-19	26.2
08-04-19	27.2
14-04-19	25.6
20-04-19	15.3

Groundwater Monitoring

Groundwater monitoring is undertaken from a range of monitoring piezometers and water bores both within and surrounding the mine site. Standing Water Level (SWL) checks are undertaken on a quarterly basis, with full water quality sampling undertaken on a 6 monthly basis. Standing water levels have dropped by 20cm, due to reduced rainfall, P3 monitoring piezometer on western side of the highwall had just over 3m drop.



Surface Water

Surface water sampling of storages onsite continues to be carried out on a quarterly basis. Dams were filled with 82mm of rainfall at the end of March 30th, most northern dam was sampled – no issue with water quality. Another 60.2mm on 4th and 5th May, no dams overflowed.

Complaints

No complaints have been received for the Sunnyside Coal Mine since the previous CCC meeting.

Rehabilitation

Additional 500 tube-stock are scheduled for planting this month to take advantage of current soil moisture and lower temperatures. A methodology for optimal planting of the tube stock is in development to improve survival rates. This would also include pre-hardening prior to planting.

Final shaping and of some of the southern pit areas is currently being undertaken.

**Minutes of the 30th Meeting of the
Sunnyside Coal Mine Community Consultative Committee**

Meeting Held: 14th August 2019

Venue: The meeting was held at Namoi Valley Brickworks at 15:30

1. Present and Apologies

Present: Michael Broekman (MB) (Chairperson)
Craig Sullivan (CS) (Operations Superintendent/MEM- Whitehaven)
Andrew Raal (AR) (Environmental Officer- Whitehaven)
Liz Ferguson (LF) (Community Representative)
Andrew Johns (AJ) (Gunnedah Shire Council)
Tim Muldoon (TM) (Manager Community Relations - Whitehaven)

Apologies: Colleen Fuller Colleen Fuller (CF) (Gunnedah Shire Council Rep), Ron Fuller Ron Fuller (RF) Community Representative

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion and confirmed by MB and AR.

3. Business Arising

LF Asked concerning current water situation at the mine. CS responded that there is sufficient water at this stage for current operations.

AJ enquired how seedling survival rate is going as the council had significant losses despite watering – mostly due to roo interference. AR responded that the mine had a high loss of planted seedlings due to drought and some animal destruction. Discussion held on strategies that the mine is using to improve survival rate. Planting methodology has been amended due to drought and larger protectors are in place.

4. Operations Report

CS gave detailed production report for current financial Year

- 223k t bench m³ of overburden stripped
- 58,000 t coal mined
- 712 loss time injury free days

Number of employees remains the same. Production is scheduled to cease within a week, and last coal transported to Gunnedah CHPP by mid-November.

10ha of rehabilitation (final land shaping and topsoiling) has been completed ahead of schedule.

5. Environmental Report

AR presented environmental monitoring results and records of complaints, which are include in the Environmental Monitoring Report.

No formal community complaints received, one incident where coal haul truck had some spillage causing damage to private vehicle on the highway. LF stated that she has had good interactions with the current trucking company and the drivers are courteous. On the mine last production blast sound pressure regulations were exceeded buy 1 DbI, a warning letter was issued by the Department of Planning Industry and Environment. Regional dust levels have dropped off since first quarter.

6. General Business

LF suggested the mine to plant salt bush as a temporary measure as they are drought resistant and are useful for grazing.

MB stated that Nicole Whittaker from ERM consultancy had approached him in relation to Sunnyside scheduled 3y independent audit, and had verbally responded to the request. Audit requirements and approval conditions of the mine were explained by AR. Discussion on council pruning of trees along Coocooboonah Ln was held, CCC members stated unnecessary damage was done to the trees. Requirement for the mine to remove the sealed bypass road and reinstate Coocooboonah Ln gravel section was discussed, all members of CCC were in agreement that it would be better to keep the sealed section of the road.

Traffic flow will be change at the mine entrance, the yield signs will be removed and stop sign installed for mine traffic leaving the mine site.

There will be no trucking of coal to Gunnedah CHPP during AgQuip.

Next CCC will be held at mine site and include a site visit as the mine goes into full closure and rehabilitation.

7. Next meeting

Next meeting scheduled for Wednesday 13th November 2019 at 3:00pm, at Sunnyside Coal Mine.

Meeting closed at 16:15

Michael Broekman – Chairperson

Sunnyside Coal Mine Community Consultative Committee Meeting #30

Environmental Monitoring Report May - July 2019

Noise Monitoring

Noise monitoring including road noise was conducted over three days 3rd-5th July 2019. There were no non-compliances.

Blasting

There has been 3 blast since last CCC Meeting. Final Production blast and two small high wall shaping blasts. There are no further planned blasts and blast monitors have been decommissioned.

The final production blast on 7 June 2019 had an elevated peak overpressure of 116dBL at a single station (Plainview) against an approval condition of 120dBL where only 5% of all blasts are allowed to exceed 115dBL. A warning letter was issued by the Department of Industry, Planning and Environment (DPIE)

Date	Station	Peak Vibration (mm/s)	Peak Overpressure (dBL)
07-Jun-19	Ivanhoe	1.84	111
07-Jun-19	Plainview	0.86	116
07-Jun-19	Innisvale	1.16	112.9
07-Jun-19	Illili	0.90	107.7
07-Jun-19	Ferndale	1.07	109.5
27-Jun-19	Ivanhoe	0.21	108.4
27-Jun-19	Plainview	0.11	106.8
27-Jun-19	Innisvale	0.19	101.9
27-Jun-19	Illili	0.07	102.6
27-Jun-19	Ferndale	0.08	107.4
05-Jul-19	Ivanhoe	0.31	104.8
05-Jul-19	Plainview	0.17	101.2
05-Jul-19	Innisvale	0.21	106.2
05-Jul-19	Illili	0.06	102.9
05-Jul-19	Ferndale	0.08	104.8

Air Quality Monitoring

Deposited Dust

The annual averages for deposited dusts at all monitoring locations remain below the criteria of 4g/m²/month average over 12 month period. May had elevated reading, depositional dust levels have since dropped.

Month	SD1 Ferndale	SD3 Plainview	SD4 Lilydale	SD5 Ivanhoe	SD6 Illilli	SD7 Innisvale	SD8 Woodlawn
May-19	6.0	2.9	2.4	3.3	2.4	2.72	1.7
June-19	1.5	1.2	0.9	1.9	1.9	1.0	0.6
July-19	1.9	2.0	0.8	1.7	0.8	0.7	0.5
Average	3.13	2.03	1.3	1.5	2.1	2.0	1.3

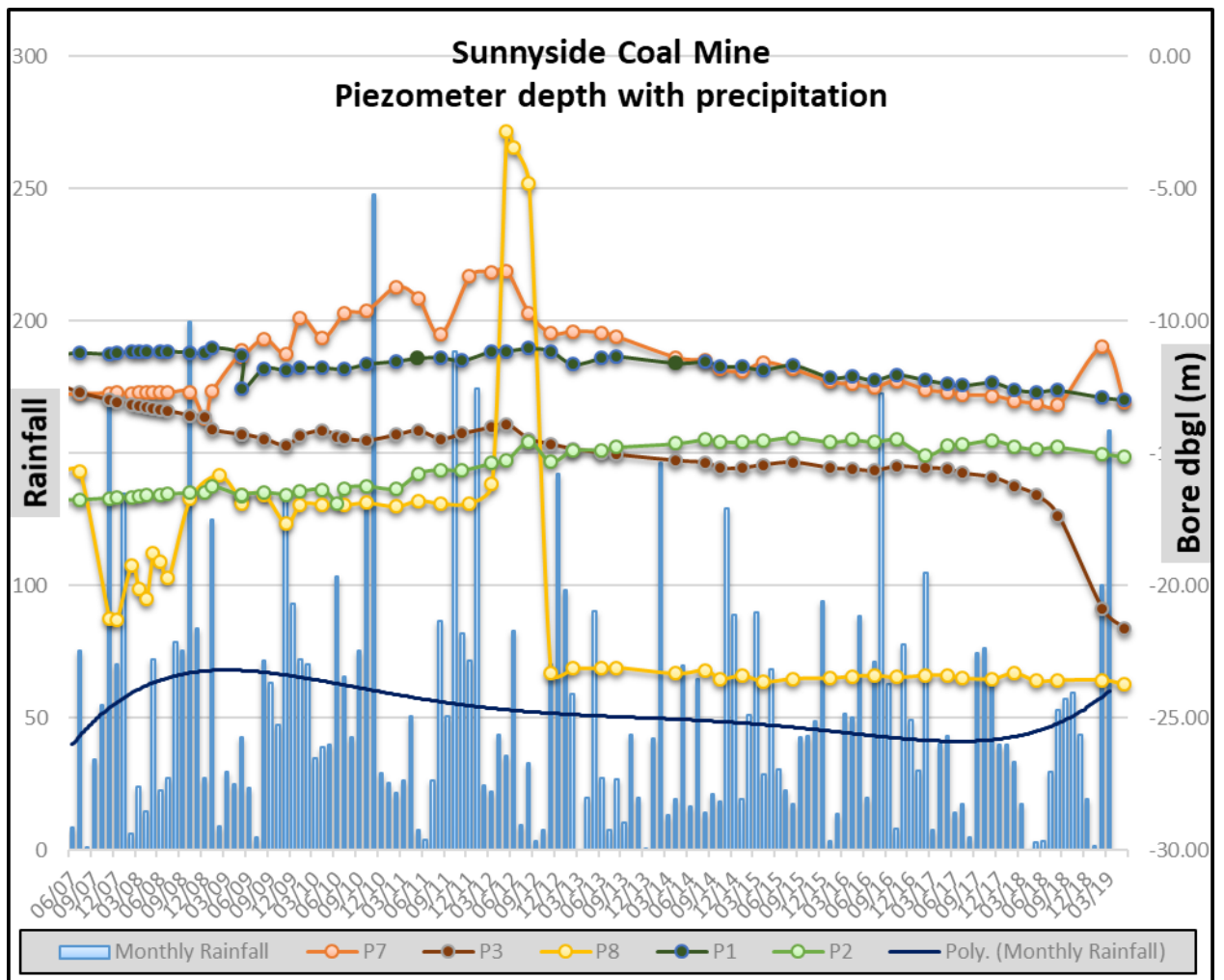
PM₁₀ Data

PM₁₀ measurements taken during the three months had values below the 50 µg/m³ per day limit and annual average is below the 30 µg/m³ per day limit. Dust levels dropped off since first quarter from mean of 36.17 to 13.2 µg/m³/day.

PM10, Illilli	
Date	µg/m ³
02-05-19	7.6
08-05-19	9.4
14-05-19	19
20-05-19	21.1
26-05-19	16.4
01-06-19	11.6
07-06-19	9.6
13-06-19	9.8
19-06-19	7.9
25-06-19	6.5
01-07-19	19.2
07-07-19	14.2
13-07-19	10.8
19-07-19	13.3
25-07-19	31
31-07-19	3.6

Groundwater Monitoring

Groundwater monitoring is undertaken from a range of monitoring piezometers and water bores both within and surrounding the mine site. Standing Water Level (SWL) checks are undertaken on a quarterly basis, with full water quality sampling undertaken on a 6 monthly basis. Standing water levels have slight decrease dropped (10cm to 15cm).



Surface Water

Surface water sampling of storages onsite continues to be carried out on a quarterly basis. Dam levels have dropped over the last 3 months.

Complaints

No complaints have been received for the Sunnyside Coal Mine since the previous CCC meeting.

One person phoned indicating that their car received damage from spillage from a coal haul truck.

Rehabilitation

Additional 200 tube-stock are scheduled for planting this month to take advantage of current soil moisture and lower temperatures. A methodology for optimal planting of the tube stock is in development to improve survival rates. This would also include pre-hardening prior to planting.

A total of 15ha of final land forming has been completed in 2019 with some of the areas being top soiled, seeding and planting will take place after soil moisture has improved.

**Minutes of the 30^h Meeting of the
Sunnyside Coal Mine Community Consultative Committee**

Meeting Held: 13th November 2019

Venue: The meeting was held at Sunnyside Mine 15:00

1. Present and Apologies

Present: Michael Broekman (MB) (Chairperson)
Craig Sullivan (CS) (Operations Superintendent/MEM- Whitehaven)
Andrew Raal (AR) (Environmental Officer- Whitehaven)
Liz Ferguson (LF) (Community Representative)

Apologies: Colleen Fuller Colleen Fuller (CF) (Gunnedah Shire Council Rep), Ron Fuller (RF) Community Representative, Andrew Johns (AJ) (Gunnedah Shire Council)

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion and confirmed by LF and CS.

3. Business Arising

LF asked if Tim Muldoon has left Whitehaven coal? it was confirmed by CS that he has left Whitehaven Coal and the Community department is currently being reorganised.

4. Operations Report

CS gave detailed production report for current financial Year

- 310k t bench m³ of overburden stripped
- 218 k t overburden dump m³ moved as part of rehabilitation
- 93,000t coal mined, less than planned due to high wall failure and geotechnical issues.
- 803 loss time injury free days
- 0 TIFR (Total Injury Frequency Rate)

Trucking of remaining coal on Sunnyside ROM Pad finished on the 27th of October 2019. There are still 10 Operators on site and a number of maintenance personal and supervisors. Looking to reduce work hours from 50 per week down to 45.

5. Environmental Report

AR presented environmental monitoring results and records of complaints, which are include in the Environmental Monitoring Report.

Ongoing watering of tube stock, discussion of planting method using larger guards. Issues related to drought and site water usage were discussed. Mine water is currently sourced from the Verona bore and water collected in the mine pit, both waters are industrial quality.

6. General Business

Site visit of the mine was undertaken. Discussion was held on retaining mine infrastructure like the mine workshop and dams as well as the bypass Coocooboonah Ln.

Suggestion made to reduce frequency of CCC meeting from quarterly to six monthly.
LF suggested the mine to plant salt bush as a temporary measure as they are drought resistant and are useful for grazing.

7. Next meeting

Next meeting scheduled for Wednesday 12th February 2019 at 3:30pm, at Namoi Valley Brickworks.

Meeting closed at 16:35

Michael Broekman – Chairperson

Sunnyside Coal Mine Community Consultative Committee Meeting #31

Environmental Monitoring Report August - October 2019

Noise Monitoring

Noise monitoring was conducted over four days 23rd - 26th September 2019. There were no non-compliances. Highest measured result was <30dB against a guideline level of 35dB.

Blasting

There has been no blasting during the reporting period.

Air Quality Monitoring

Deposited Dust

The annual averages for deposited dusts at all monitoring locations remain below the criteria of 4g/m²/month average over 12 month period. October had elevated reading at Plain.

Month	SD1 Ferndale	SD3 Plain View	SD4 Lilydale	SD5 Ivanhoe	SD6 Illi	SD7 Innisvale	SD8 Woodlawn
Aug-19	2.2	1.9	1.9	2.7	0.9	1.2	1
Sep-19	2.5	1.3	0.9	1	1.4	1.2	0.9
Oct-19	1.8	5.8	2.6	1.8	1.6	1.3	2.2
Mean	2.2	3.0	1.8	1.8	1.3	1.2	1.4

Dust PM₁₀ Data

PM₁₀ dust levels are taken every 6 days, the last 3 reading in October were over 50 50 µg/m³ per day limit, which have been reported to the Department of Planning – Compliance.

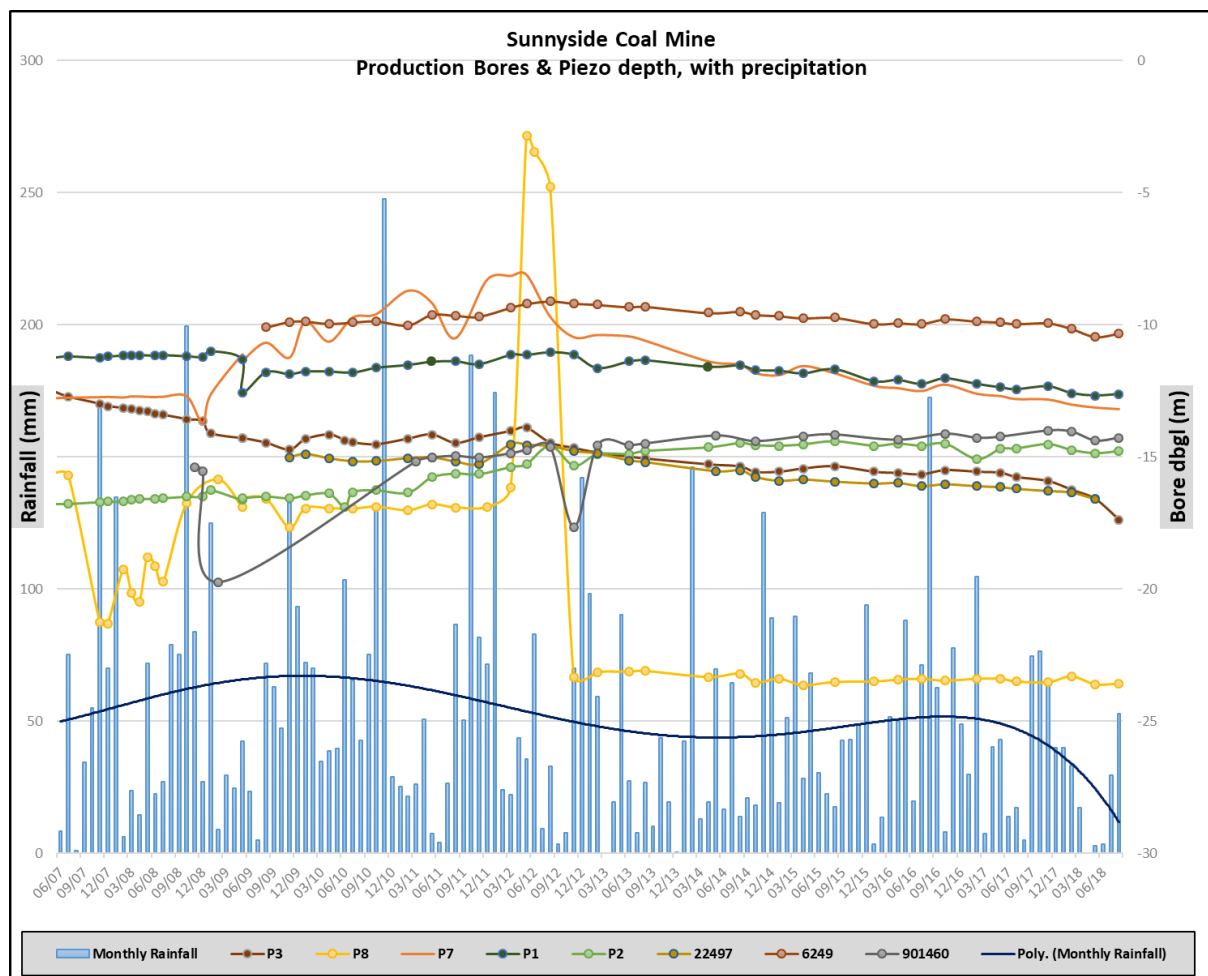
Investigation into the high readings indicated the causes were due to:

- Bushfire smoke
- Regional high winds and dust storms
- Local land holders activity
- Drought conditions where farm paddocks have been left bare

PM10 HVAS, Illilli	
Date	µg/m ³
06-Aug-19	31.5
12-Aug-19	4.2
18-Aug-19	32.6
24-Aug-19	47.8
30-Aug-19	14.4
05-Sep-19	46.0
11-Sep-19	23.5
17-Sep-19	21.1
26-Sep-19	2.3
29-Sep-19	15.6
05-Oct-19	40.0
11-Oct-19	46.4
17-Oct-19	214.0
23-Oct-19	87.9
29-Oct-19	140.0

Groundwater Monitoring

Groundwater monitoring is undertaken from a range of monitoring piezometers and water bores both within and surrounding the mine site. Standing Water Level (SWL) checks are undertaken on a quarterly basis, with full water quality sampling undertaken on a 6 monthly basis. Standing water levels have slight decrease around 10cm over the last 3 months.



basis. Dam levels have dropped over the last 3 months.

Complaints

No complaints have been received for the Sunnyside Coal Mine since the previous CCC meeting.

Rehabilitation

A total of 15ha have been rehabilitated and topsoil, only a cover crop (millet) has been planted due to very low soil moisture content. There has been ongoing infill planting of tube stock in the Koala corridors – which require ongoing watering. All seeding and planting has ceased till soil moisture conditions improve.