

Austar Coal Mine

Community Consultative Committee Meeting Minutes

Location: Boardroom – Austar Main Administration Building, Middle Road, Paxton
 Time: 9:30am – 10:20am
 Date: 20 February 2019

Name	Representative
Margaret MacDonald-Hill (MMH)	Independent Chairperson
Alan Smith (AS)	Community Representative
Peter Sturrock (PS)	Community Representative
John Rayner (JR)	Community Representative
Councillor Mark Lyons (ML)	Cessnock City Council Representative
Brian Wesley (BW)	Austar Coal Mine
Carly McCormack (CM)	Austar Coal Mine
Josh Chadwick (JC)	Austar Coal Mine
Apologies	
Ashlee Baker (AB)	Community Representative
Copy of minutes	
Councillor Bob Pynsent	Mayor of Cessnock City Council
Mr Joel Fitzgibbon MP	Federal Member for Hunter
Mr Clayton Barr	State Member for Cessnock
Mr Howard Reed	NSW Department of Planning & Environment
Ms Valerie Phillips	Librarian, Cessnock City Council

Item	Issue	Action	Date
1	Welcome		
	MMH – Opened the meeting 9:30am Apologies noted		
2	Declaration of Interests		
	MMH asked for changes to previous declarations of interest <ul style="list-style-type: none"> MMH – No longer a member of the Mine Subsidence Board (MSB) as of 31 December 2018. The MSB was no longer required due to the structure of the replacement agency, Subsidence Advisory NSW. No changes to declarations of interests for other members 		
3	Confirmation of Previous Minutes		
	The minutes of the previous meeting were considered representative of that meeting. AS moved, CM seconded.		
4	Business Arising from Previous Minutes		
	Site underground visit for Cessnock City Council to be scheduled for March 2019. CM and ML in conjunction with the executive Assistant to the Mayor to schedule and arrange numbers (less than 8 to fit inside a single Driftrunner). If spaces remain CCC members will be invited. AB was provided with a print copy of the 2018 Annual Review. CM has provided information to AS regarding Yancoal company structure and how it relates to the Access and Compensation Agreement.	CM to schedule with Assistant to the Mayor Completed Completed	
5	Correspondence		
	Nil		
6	Current Operations, Environmental Monitoring Update, Complaints		
	CM– Provided update on environmental performance, environmental monitoring, community complaints and community sponsorships. MMH– Asked what were the factors which made Austar prone to coal burst. BW- stated that depth and surrounding competent strata (roof and floor) were both contributing factors. BW- Austar are pioneering the techniques to manage coal burst risk in Australia as one of only 2 mines in the country working in this situation. PS- Asked the depth of water monitoring bore NER1010. BW– Asked the definition of CRD (used in groundwater graphs). AS- Asked what was involved in the Bushfire Management Plan (completed November 2018). BW & CM- Replied that the plan is prepared by a specialist bushfire management consultant in consultation with the Rural Fire Service	NER1010 details: <ul style="list-style-type: none"> Total depth 102m Collar height 124mAHD Dec 2018 groundwater level approximately 99mAHD, 25m below ground level. CRD definition: The cumulative rainfall departure (CRD) is a qualitative method indicating dryer than average conditions by	

Item	Issue	Action	Date
	<p>(RFS) and included assessment of tracks and trails, strategic road signposting, designation of Asset Protection Zones and Strategic Fire Advantage Zones, and assessment fuel loads.</p> <p>CM- National Parks and Wildlife Service (NPWS) and RFS have both indicated plans to complete fuel reduction burns around Pelton village.</p> <p>PS and AS- Spoke about the potential for fire in the Nash Lane area of Quorrobolong.</p> <p>CM- The Bushfire Management Plan considers risks associated with bushfire on Austar land and identifies practical management strategies to reduce those risks.</p> <p>Correction- Page 22 of the presentation, when shown to the CCC, showed the result of testing in January 2019 at SWC1 as pH 7.86. It should have read pH 4.86 and has been amended in the attached presentation with the addition of results from February 2019.</p>	declining trends and higher than average rainfall periods by increasing trends.	
7	General Business		
	<p>PS- Asked if the workforce was still pared down. BW - responded that the workforce was cut back when development mining stopped and will remain stable at that level until extraction is completed in Longwall B6. The decision to proceed or otherwise with Stage 3 will dictate whether the workforce will increase or decrease at that point.</p> <p>PS- Noted that works were underway at Poppet Head Park on a shade area</p> <p>ML- Asked about the orange staining incident (6 June 2017) and what had been done. CM- replied that it was reported to EPA at time of identification who added conditions to Austar's Environmental Protection Licence. A geotechnical investigation was completed as required by the EPL conditions, and ongoing monitoring and water management continues. The source of the orange staining is still unclear.</p>		
8	Meeting Dates		
	<ul style="list-style-type: none"> ▪ 2019 meeting dates: <ul style="list-style-type: none"> ○ 29 May 2019 (AB & JR apologies) ○ 28 August 2019 ○ 27 November 2019 		
10	Meeting Closed		
	MMH – Declared the meeting closed at 10:20am.		

Recorded: Josh Chadwick 20/2/2019

Minutes Confirmed: To be confirmed at next meeting

Chairperson – Margaret MacDonald-Hill

AUSTAR COAL MINE

COMMUNITY CONSULTATIVE MEETING

Q1 2019
20 February 2019

Carly McCormack
ENVIRONMENT & COMMUNITY SUPERINTENDENT

Agenda

1. Welcome / Apologies
2. Declaration of interests
3. Confirmation of previous minutes
4. Business arising from previous minutes
5. Correspondence
6. Current operations / Environmental monitoring update / Complaints
7. General business / Community Sponsorship
8. Next meeting / Meeting close

Current Operations



Current Operations

Underground Mining Operations

- Longwall B4 was completed 29 November 2018 at the reduced total panel length of 849m
- Longwall equipment was moved from LWB4 to LWB5 during December and January
- Extraction of coal in LWB5 commenced on 17 January 2019
- Approximately 190m of extraction has already been completed in LWB5 with 915m remaining
- The coal burst risk for LWB5 has been assessed by geotechnical engineers. The majority of the panel has been assessed as low risk. Areas nominated with higher levels of risk will be mined with increased risk management controls, including increased levels of longwall automation. Destress drilling may be undertaken if triggered by the Trigger Action Response Plan (TARP)
- Mining in Longwall B5 is expected to be completed mid-year with a longwall move to B6 following
- The Stage 3 project continues to be assessed

Current Operations

Coal Handling and Preparation Plant (CHPP)

- Washing of coal recommenced 22 January 2019
- Railing of coal to the Port will be sporadic during February, stabilising at around 4 trains per day in March

Environmental Incidents

Environmental Incidents (27 November 2018 – 19 February 2019)

CHPP – Environment Protection Licence (EPL) Limit Exceedance

- Minor exceedance of electrical conductivity (EC) limit for water treated by RO Plant and discharged to Bellbird Creek
- Results of sampling on 4 January 2019 recorded conductivity reading 667 μ s/cm against a limit of 600 μ s/cm. All other analytes (pH, TSS and Iron) were within limits
- Reported exceedance to Environment Protection Authority (EPA), Department of Planning and Environment (DPE) Compliance and DPE Resources Regulator
- All agencies noted exceedance with no further action

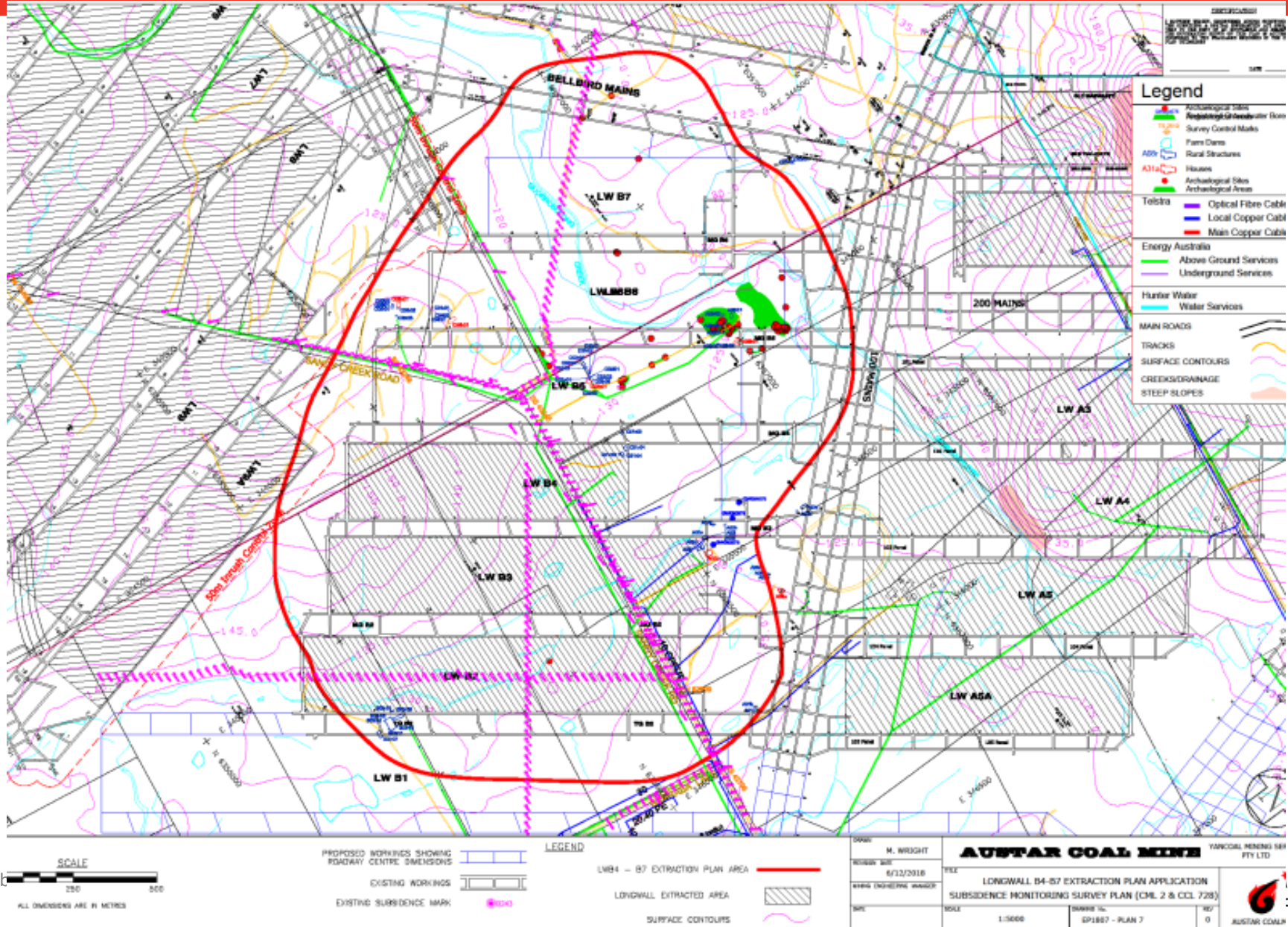
Environmental Monitoring Update

Subsidence

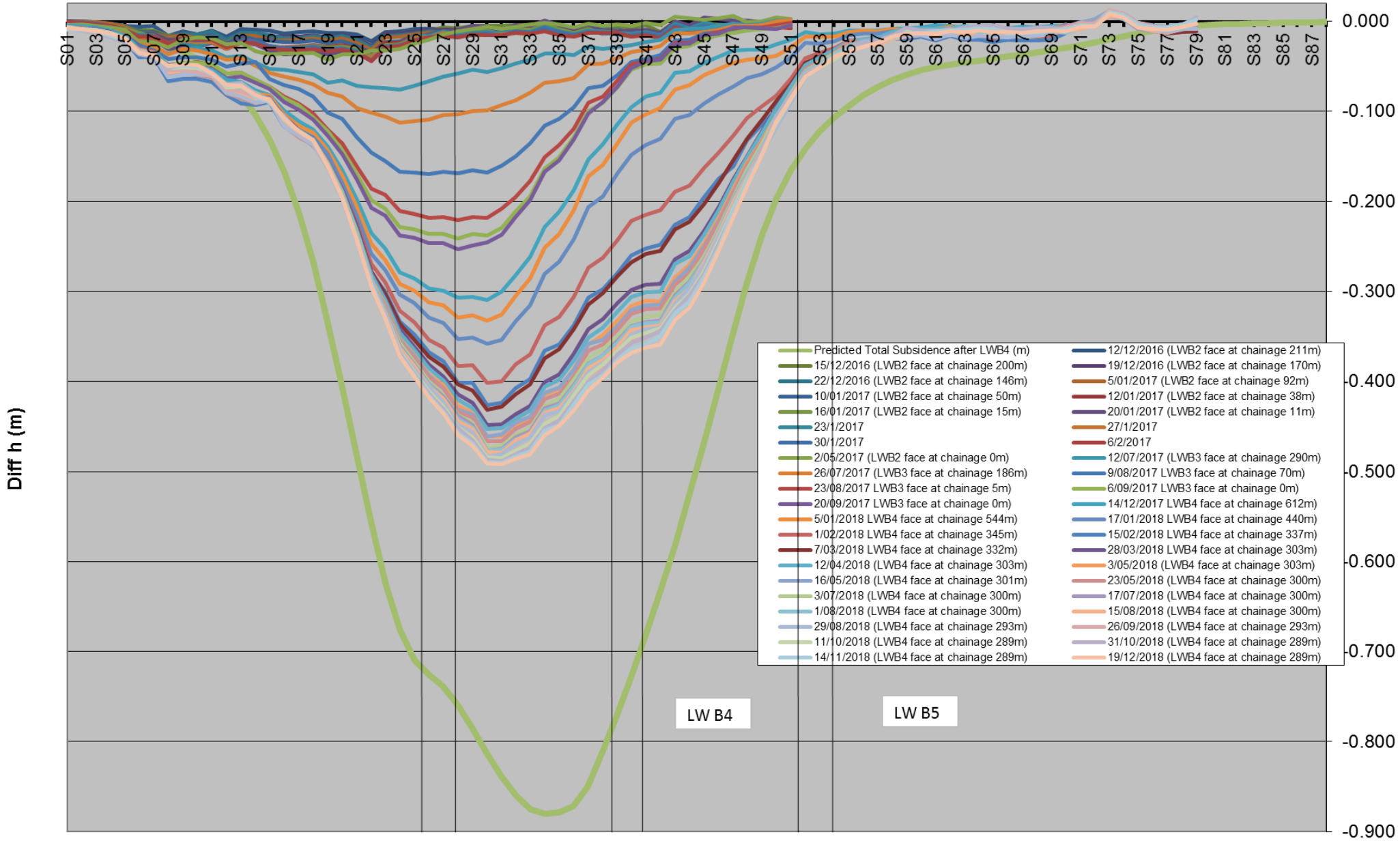
Bellbird South Mining Area

- Subsidence surveys are ongoing along the Sandy Creek Road monitoring line
- Maximum recorded surface level movement on Sandy Creek Road is approximately 492 mm as surveyed 19 December 2018

Subsidence



Subsidence- LINE "SCR1"



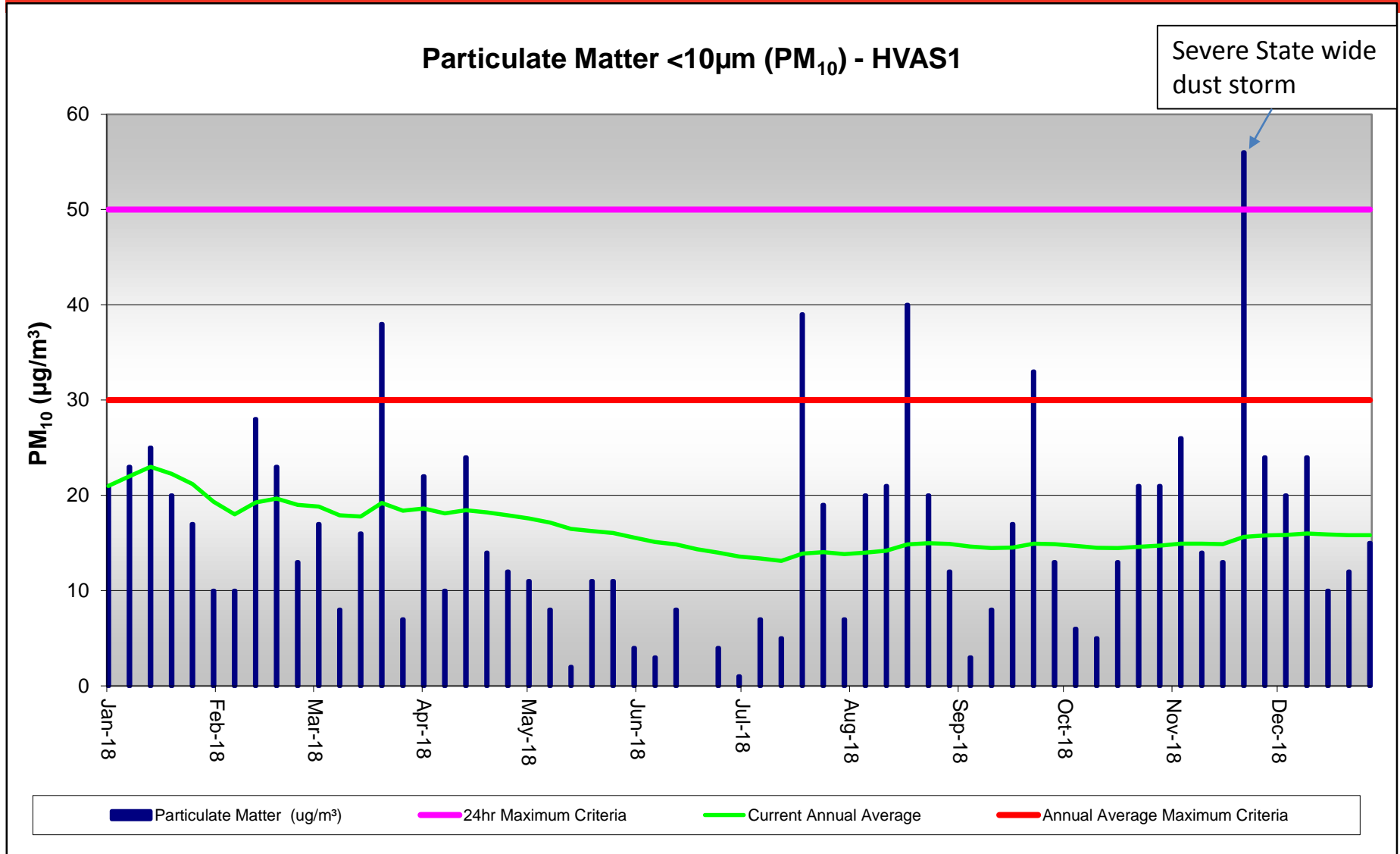
- | | |
|---|---|
| — Predicted Total Subsidence after LWB4 (m) | — 12/12/2016 (LWB2 face at chainage 211m) |
| — 15/12/2016 (LWB2 face at chainage 200m) | — 19/12/2016 (LWB2 face at chainage 170m) |
| — 22/12/2016 (LWB2 face at chainage 146m) | — 5/01/2017 (LWB2 face at chainage 92m) |
| — 10/01/2017 (LWB2 face at chainage 50m) | — 12/01/2017 (LWB2 face at chainage 38m) |
| — 16/01/2017 (LWB2 face at chainage 15m) | — 20/01/2017 (LWB2 face at chainage 11m) |
| — 23/1/2017 | — 27/1/2017 |
| — 30/1/2017 | — 6/2/2017 |
| — 2/05/2017 (LWB2 face at chainage 0m) | — 12/07/2017 (LWB3 face at chainage 290m) |
| — 26/07/2017 (LWB3 face at chainage 186m) | — 9/08/2017 LWB3 face at chainage 70m) |
| — 23/08/2017 LWB3 face at chainage 5m) | — 6/09/2017 LWB3 face at chainage 0m) |
| — 20/09/2017 LWB3 face at chainage 0m) | — 14/12/2017 LWB4 face at chainage 612m) |
| — 5/01/2018 LWB4 face at chainage 544m) | — 17/01/2018 LWB4 face at chainage 440m) |
| — 1/02/2018 LWB4 face at chainage 345m) | — 15/02/2018 LWB4 face at chainage 337m) |
| — 7/03/2018 LWB4 face at chainage 332m) | — 28/03/2018 LWB4 face at chainage 303m) |
| — 12/04/2018 (LWB4 face at chainage 303m) | — 3/05/2018 (LWB4 face at chainage 303m) |
| — 16/05/2018 (LWB4 face at chainage 301m) | — 23/05/2018 (LWB4 face at chainage 300m) |
| — 3/07/2018 (LWB4 face at chainage 300m) | — 17/07/2018 (LWB4 face at chainage 300m) |
| — 1/08/2018 (LWB4 face at chainage 300m) | — 15/08/2018 (LWB4 face at chainage 300m) |
| — 29/08/2018 (LWB4 face at chainage 293m) | — 26/09/2018 (LWB4 face at chainage 293m) |
| — 11/10/2018 (LWB4 face at chainage 289m) | — 31/10/2018 (LWB4 face at chainage 289m) |
| — 14/11/2018 (LWB4 face at chainage 289m) | — 19/12/2018 (LWB4 face at chainage 289m) |

LW B4

LW B5

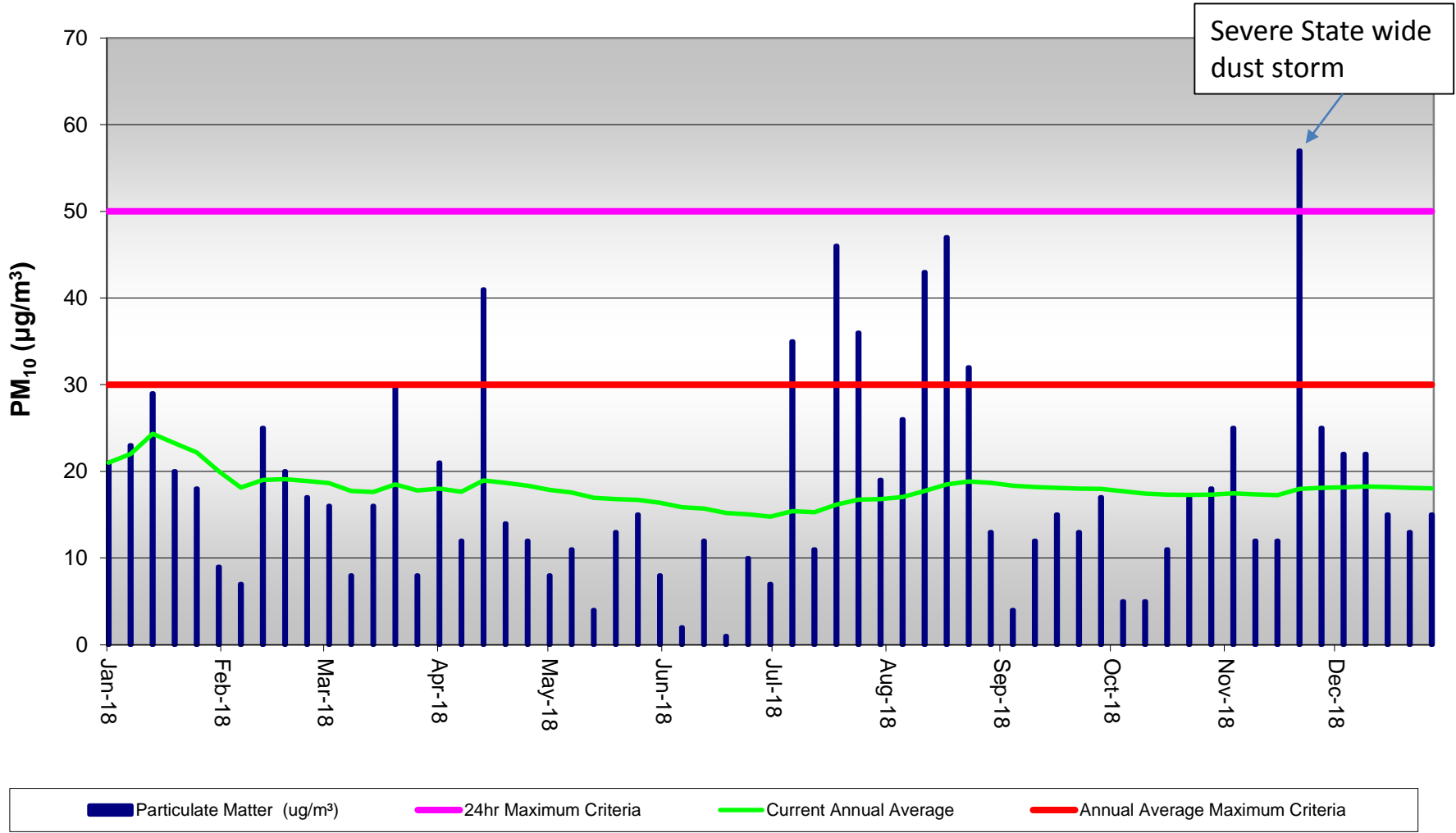
MONITORING POINT NAMES (Road Spikes)

Air Quality

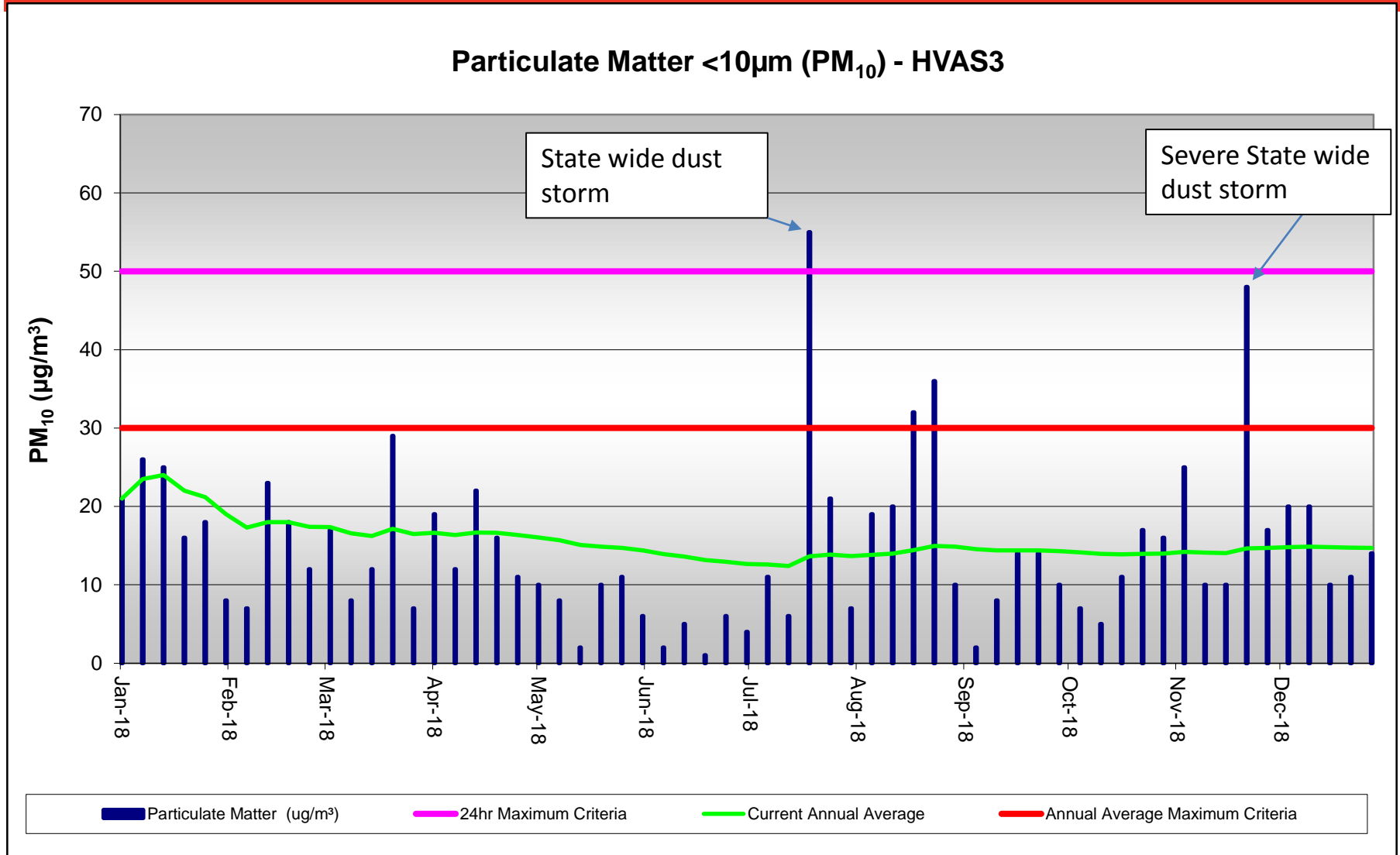


Air Quality

Particulate Matter <10µm (PM₁₀) - HVAS2



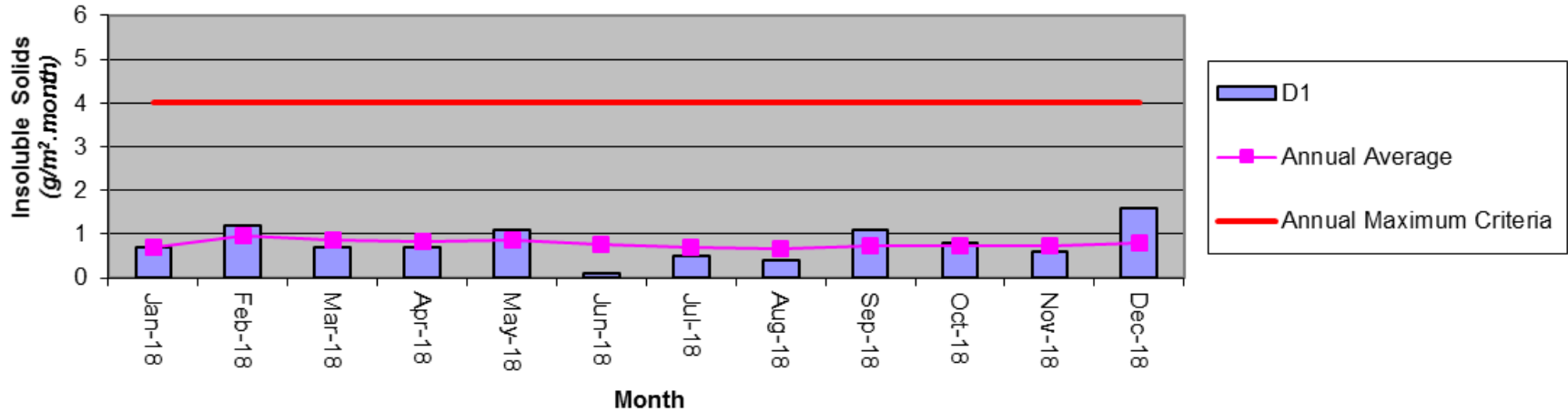
Air Quality



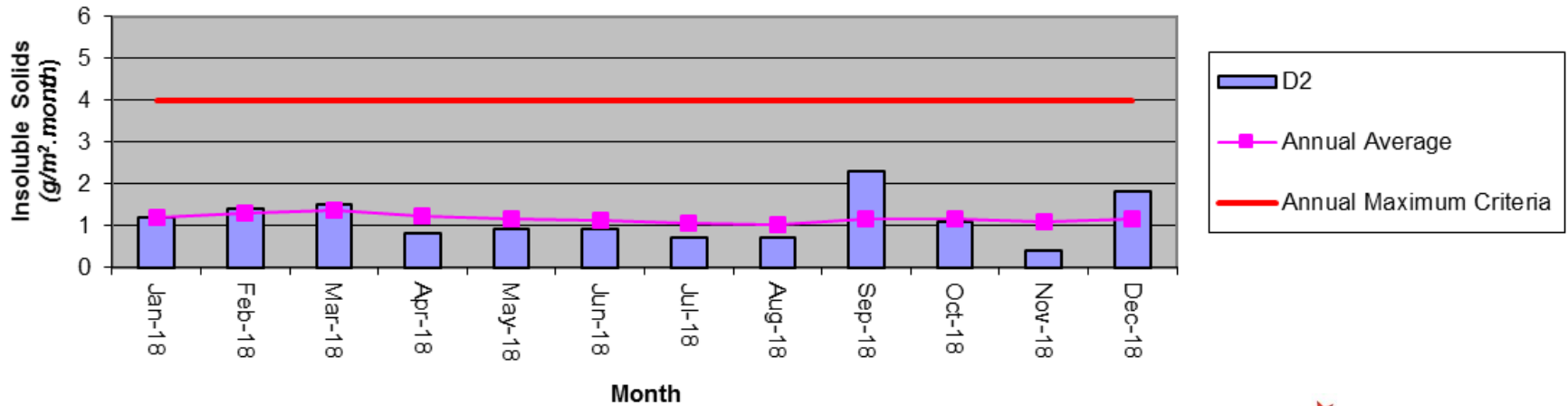
Note: Details on November 2018 high dust reading reported in previous CCC presentation

Air Quality

Dust Deposition Gauge D1 - Insoluble Solids

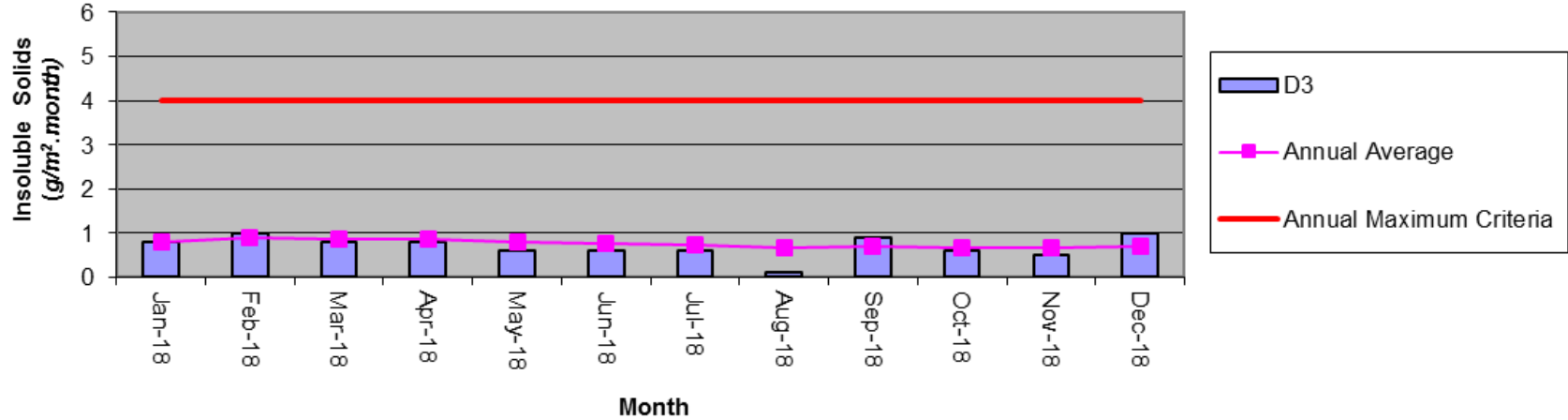


Dust Deposition Gauge D2 - Insoluble Solids

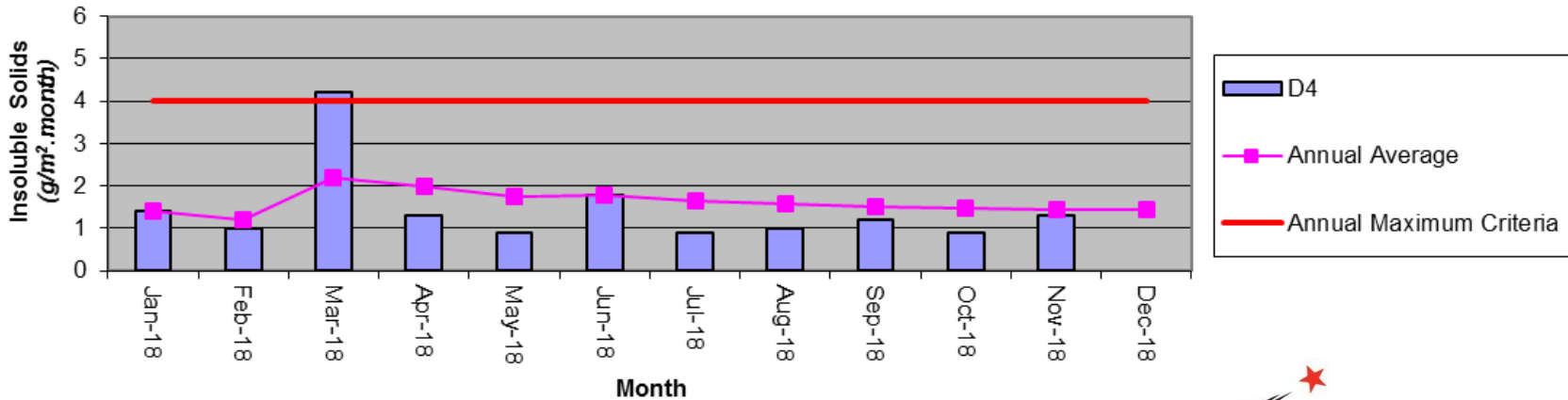


Air Quality

Dust Deposition Gauge D3 - Insoluble Solids

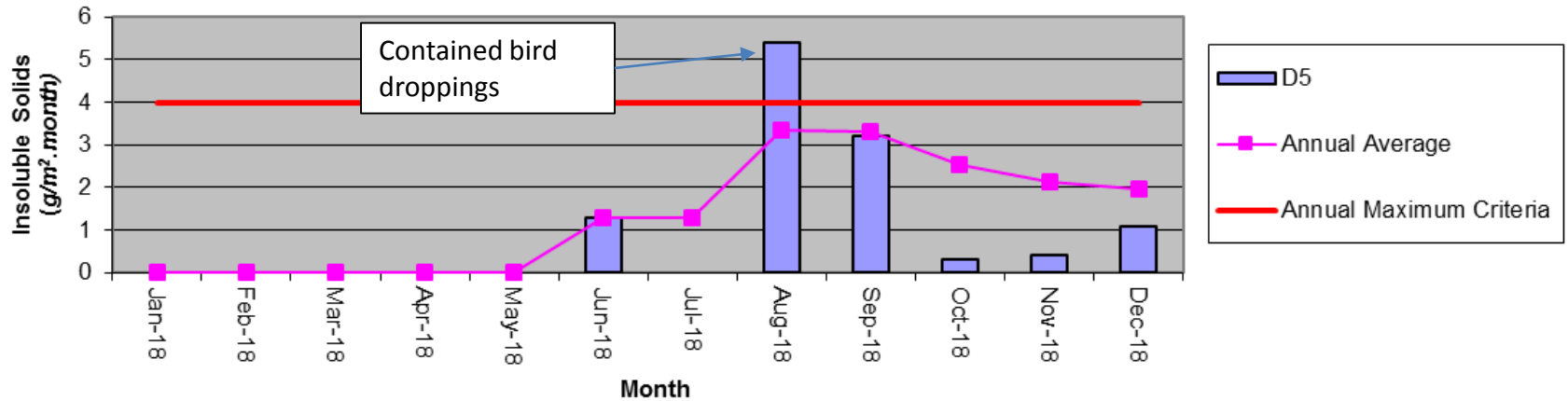


Dust Deposition Gauge D4 - Insoluble Solids

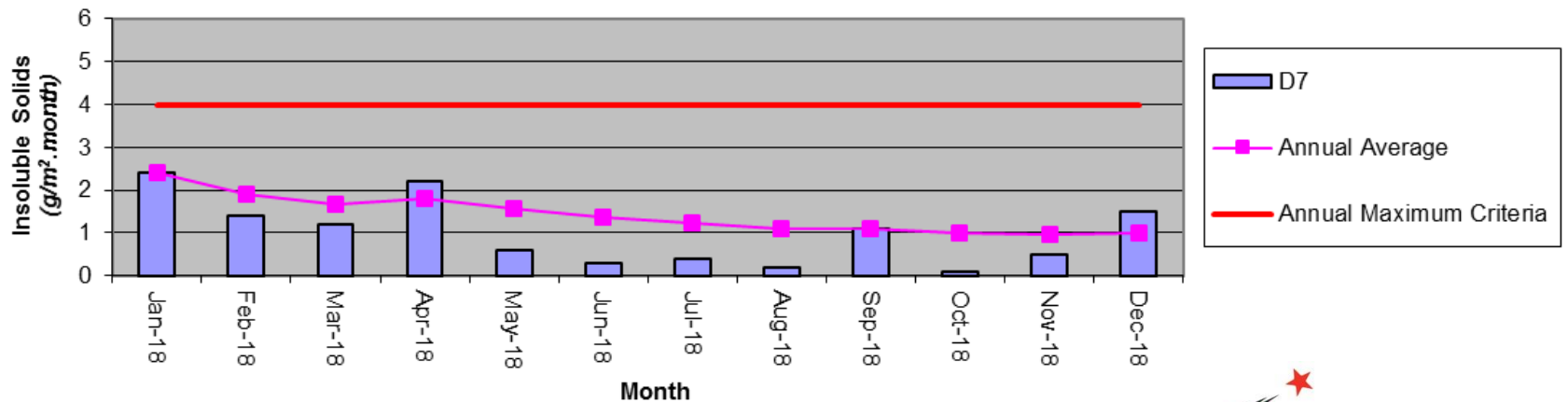


Air Quality

Dust Deposition Gauge D5 - Insoluble Solids



Dust Deposition Gauge D7 - Insoluble Solids



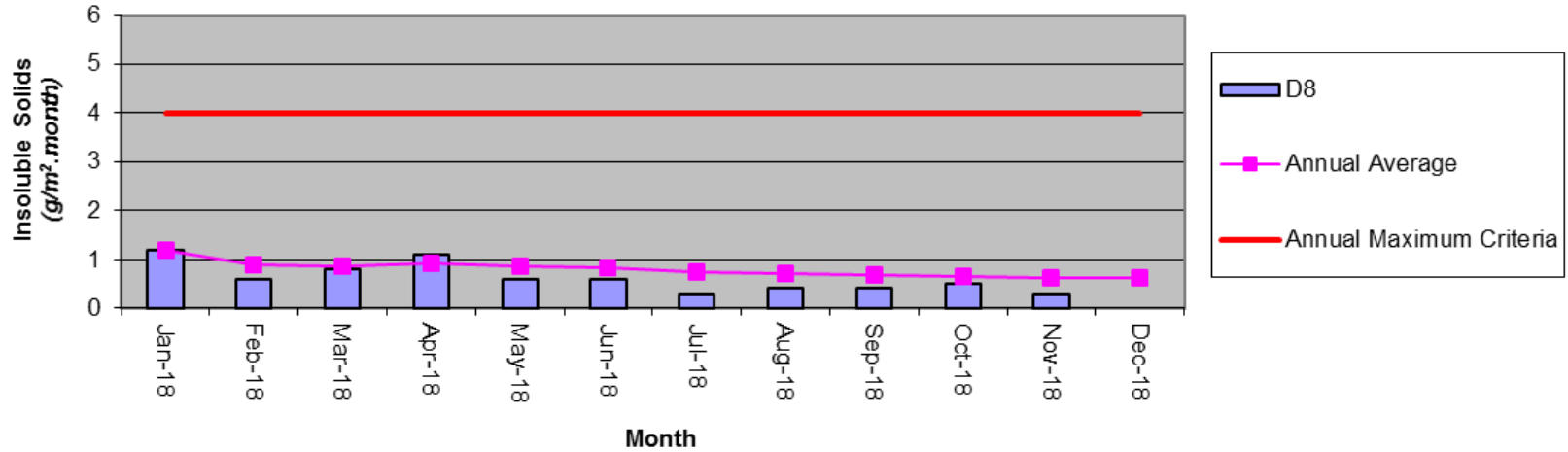
Dust Deposition Gauge 5A (D5A)



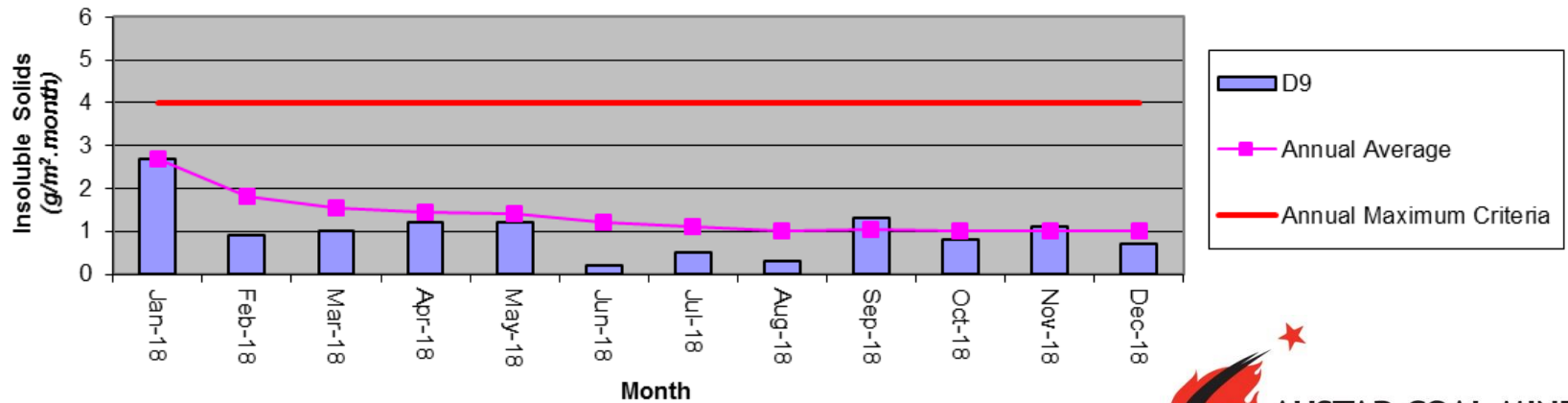
- A second dust deposition gauge was installed adjacent to D5 (near 3 Shaft)
- Increased potential for result if D5 contaminated
- Alternate type of bird spikes/ring to D5

Air Quality

Dust Deposition Gauge D8 - Insoluble Solids

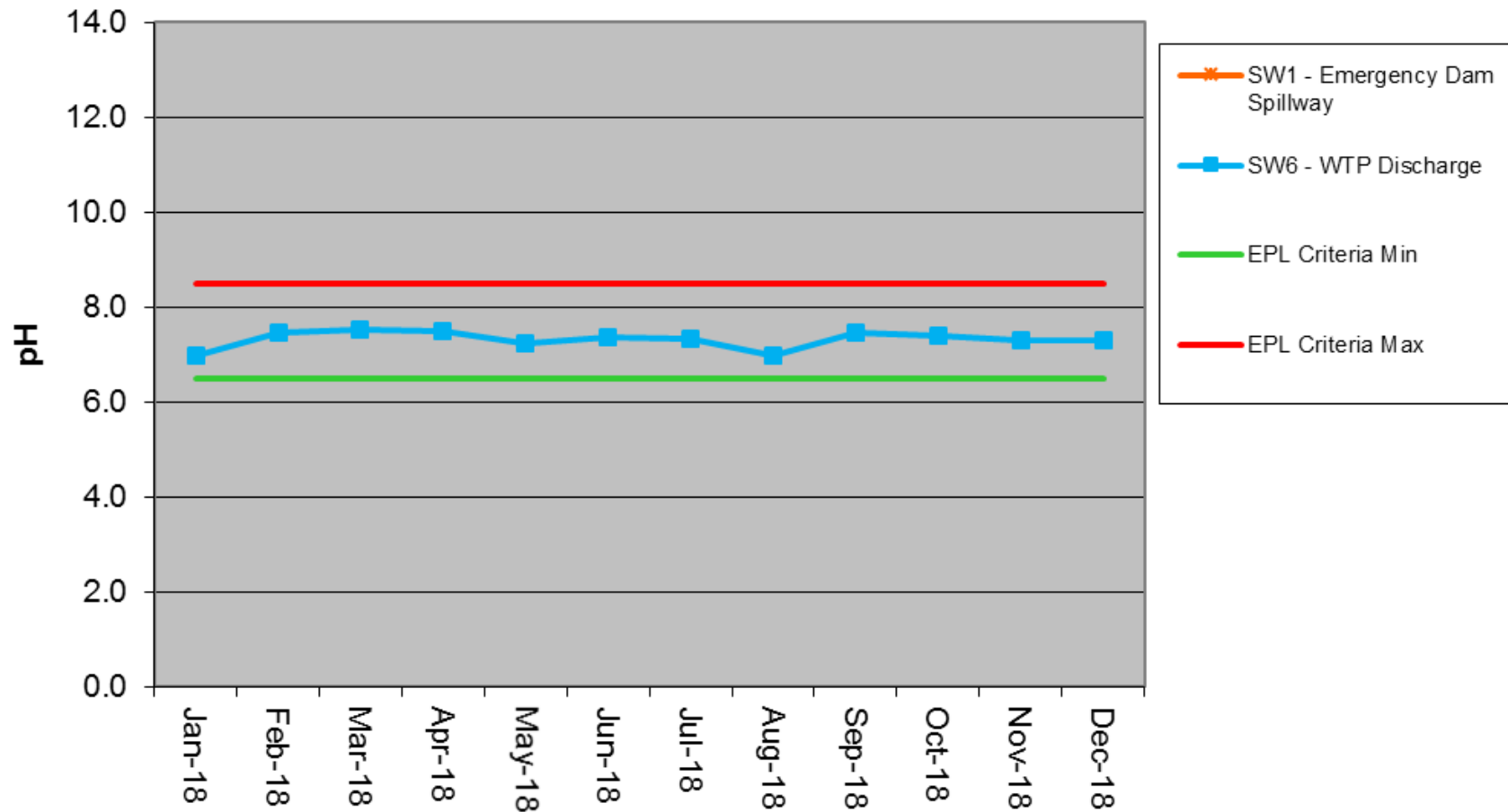


Dust Deposition Gauge D9 - Insoluble Solids



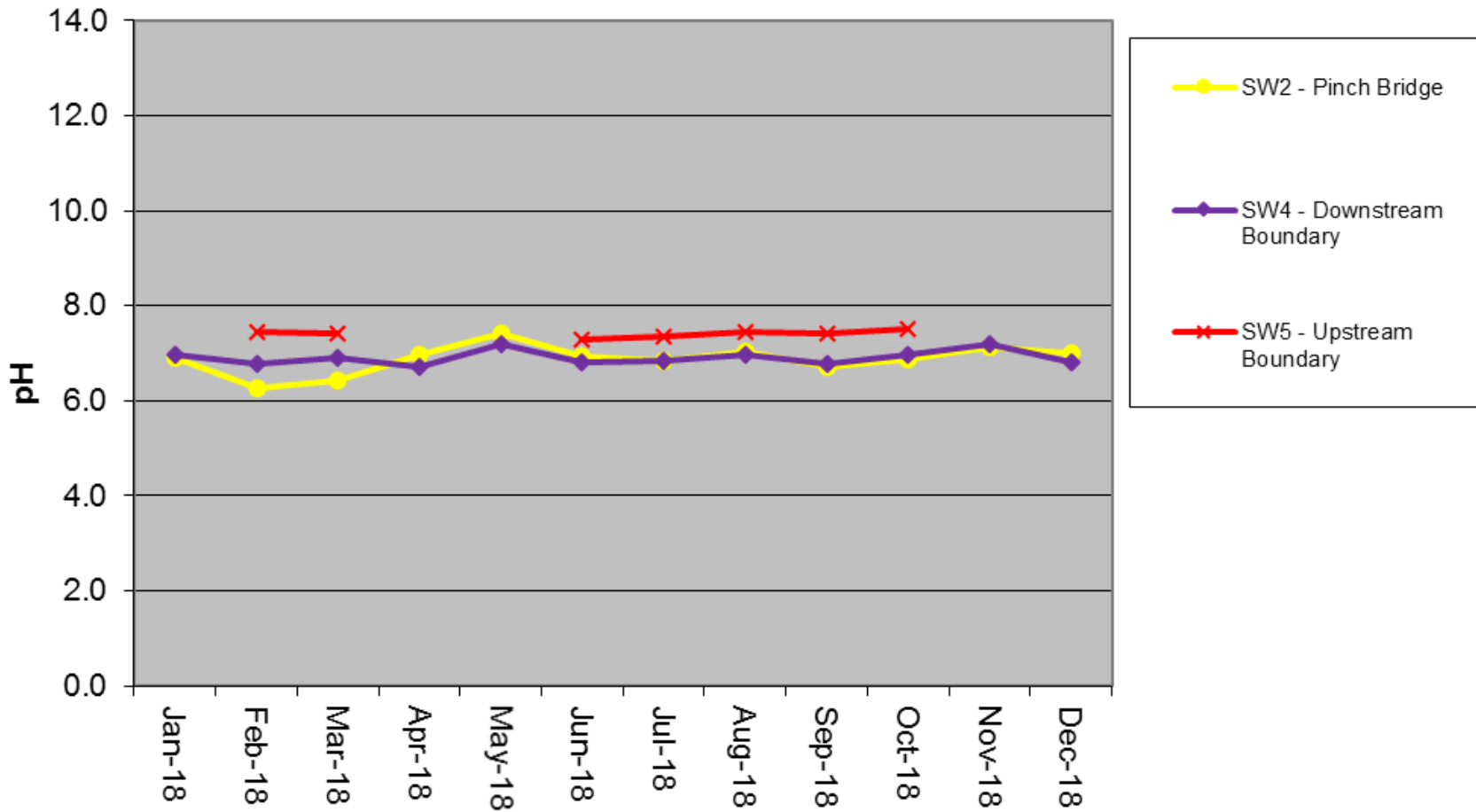
Water Monitoring

Surface Water Sites CHPP and Bellbird Creek



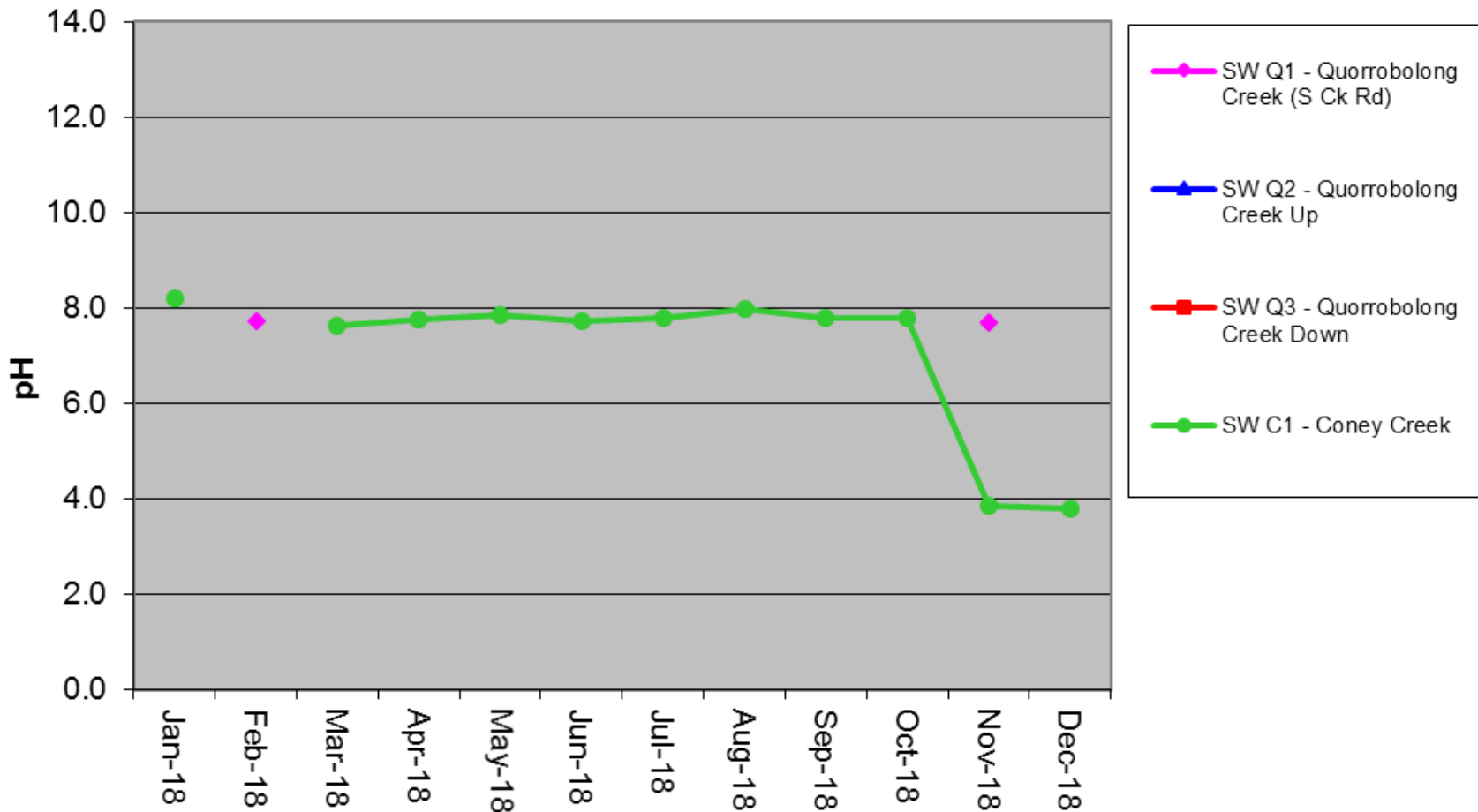
Water Monitoring

Surface Water Sites CHPP and Bellbird Creek



Water Monitoring

Surface Water Sites Quorrobolong Creek and Coney Creek



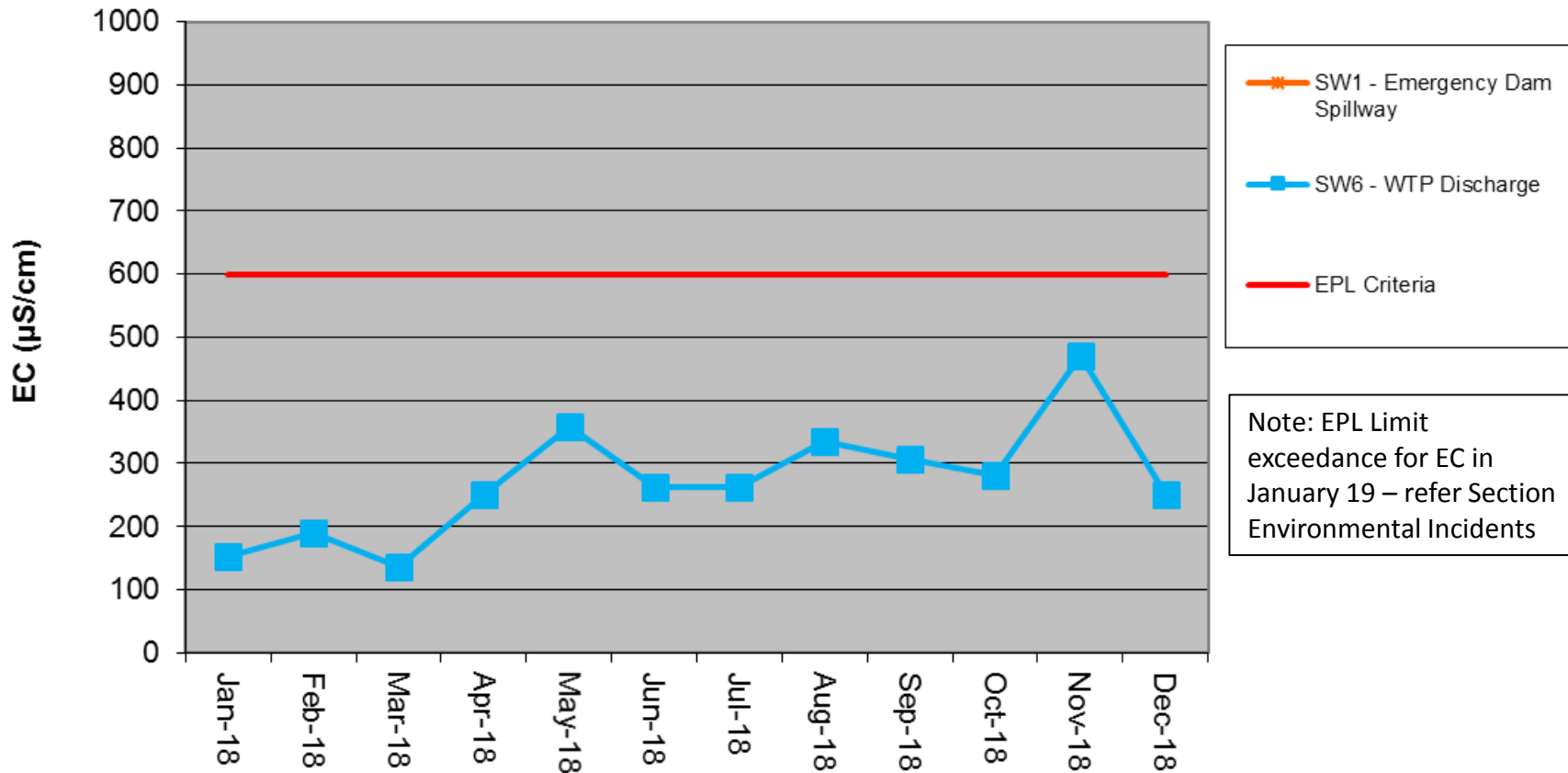
Water Monitoring

Cony Creek – pH result

- SWC1 background monitoring location not currently impacted by mining
- Water sample collected on 6 November 18 recorded low pH result 3.84
- Previous month 61mm rainfall
- Austar not landholder in immediate vicinity
- Cessnock City Council undertaking bridge works at this sampling location
- December 2018 result remained low at pH 3.78
- pH slowly increasing. January 2019 result pH 4.86, February 2019 result pH 6.92

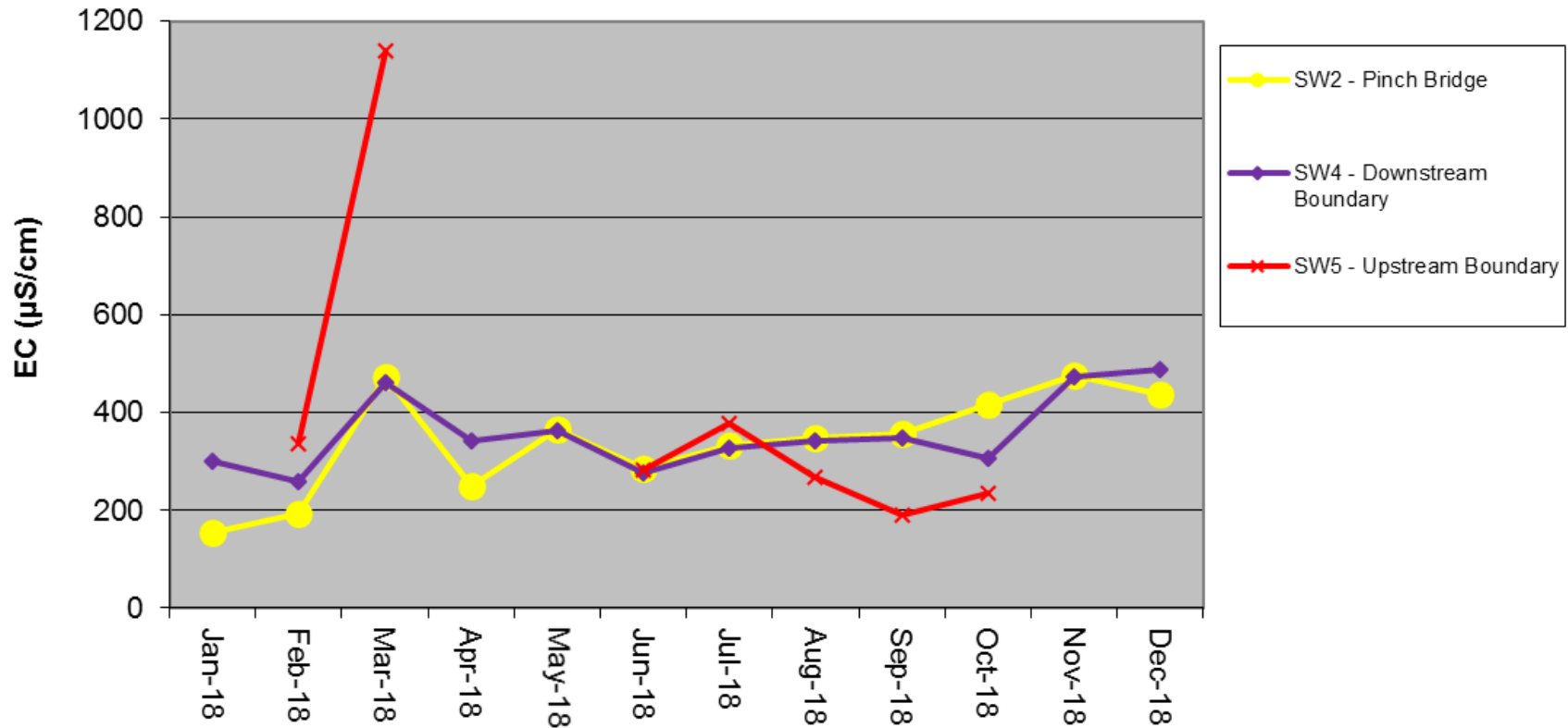
Water Monitoring

Surface Water Sites CHPP and Bellbird Creek



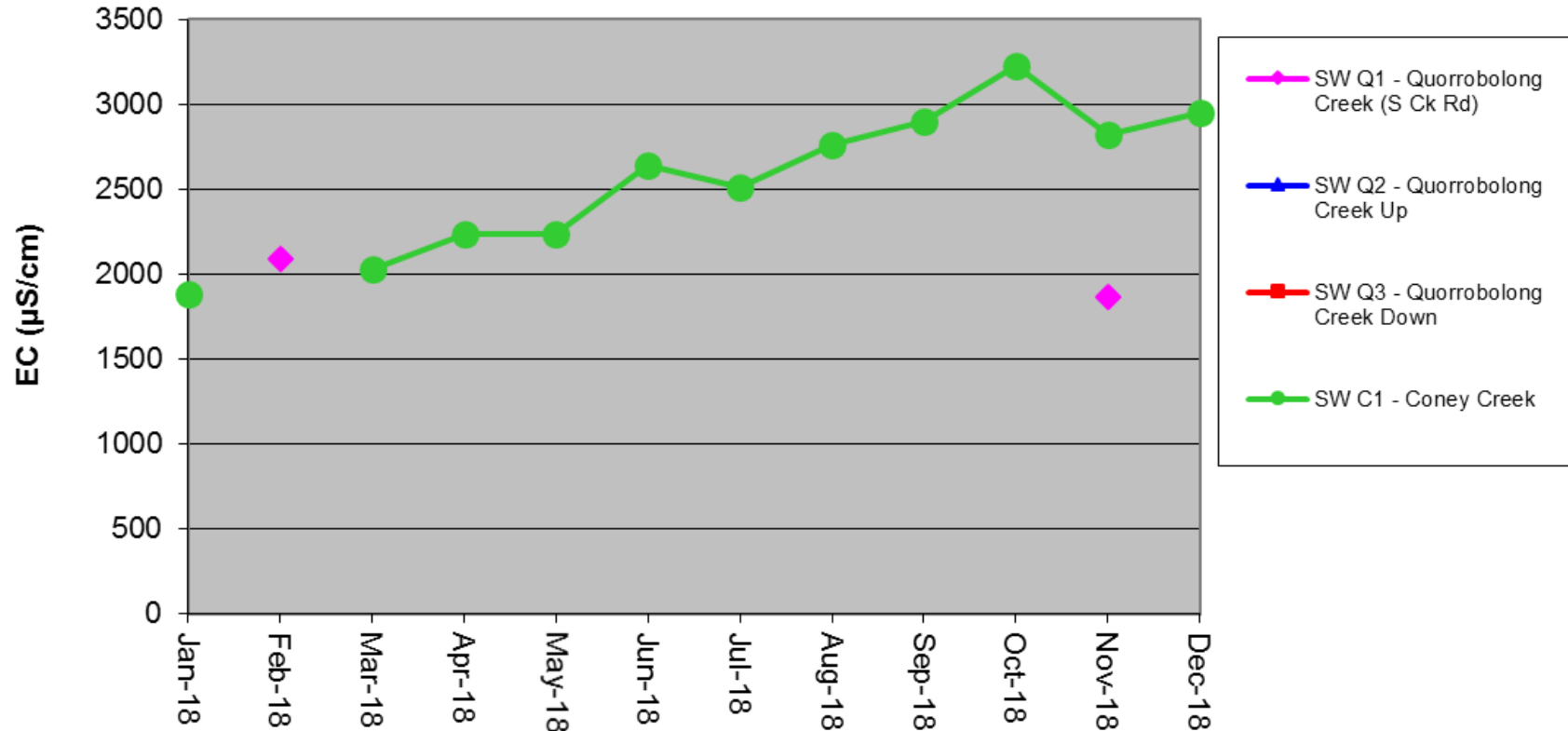
Water Monitoring

Surface Water Sites
CHPP and Bellbird Creek



Water Monitoring

Surface Water Sites
Quorrobolong Creek and Coney Creek



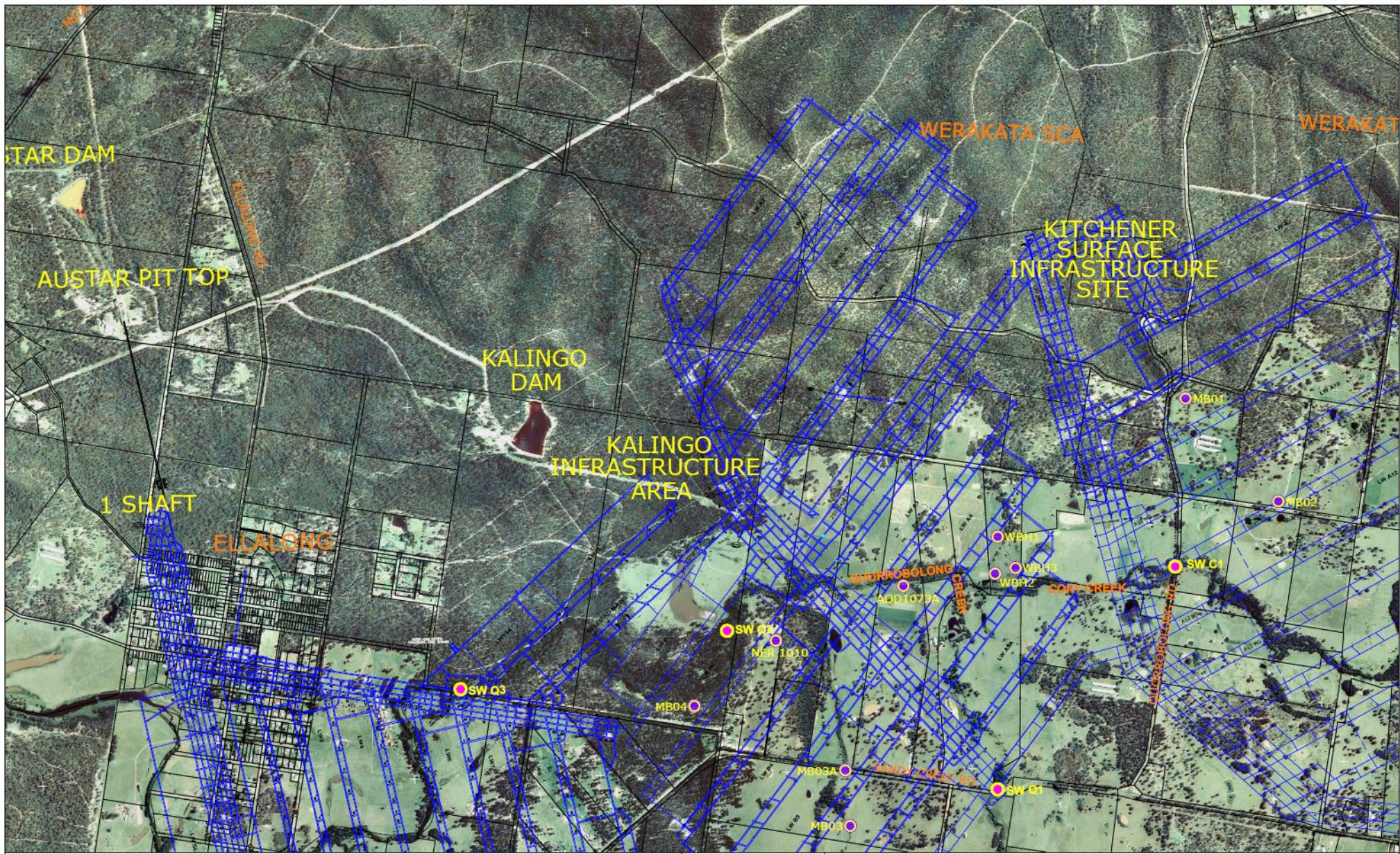
Groundwater Monitoring

- First monitoring results MB03A recorded December 2018
- Overall groundwater level decline and minor increases in alluvial monitoring bores are considered to be due to naturally occurring climatic conditions
- NER1010 and MB01 groundwater levels continue a slow decline
- There are no new trends in groundwater quality or water levels since previously reported

Groundwater Monitoring

Groundwater Review and Assessment Report – February 2019

- Required by DA29/95 Condition 12A of Schedule 3
- Approved by Department of Planning & Environment (DPE) 4 Feb 19
- Available on Austar Coal Mine website: www.austarcoalmine.com.au
- Requirement for increased groundwater sampling in 2019 including:
 - Taking samples before and after purging bore
 - Laboratory testing of basic parameters EC, pH, TDS and major ions
- Results to be reported to DoI-Water quarterly in 2019
- The 12 months of monitoring will inform the need for any changes to the existing approved TARP and this will be documented in the final report



- NER1010 Ground Water Monitor
- SW 2 Surface Water EPL Sample Points
- SW C1 Coney Creek Sample Points
- SW Q1 Quorrobolong Creek Sample Points

DRAWN
J. Chadwick

DATE
21/11/2018

CHECKED
C. McCormack

APPROVED
C. McCormack

AUSTAR COAL MINE

Austar Surface & Groundwater Monitoring Locations

TITLE

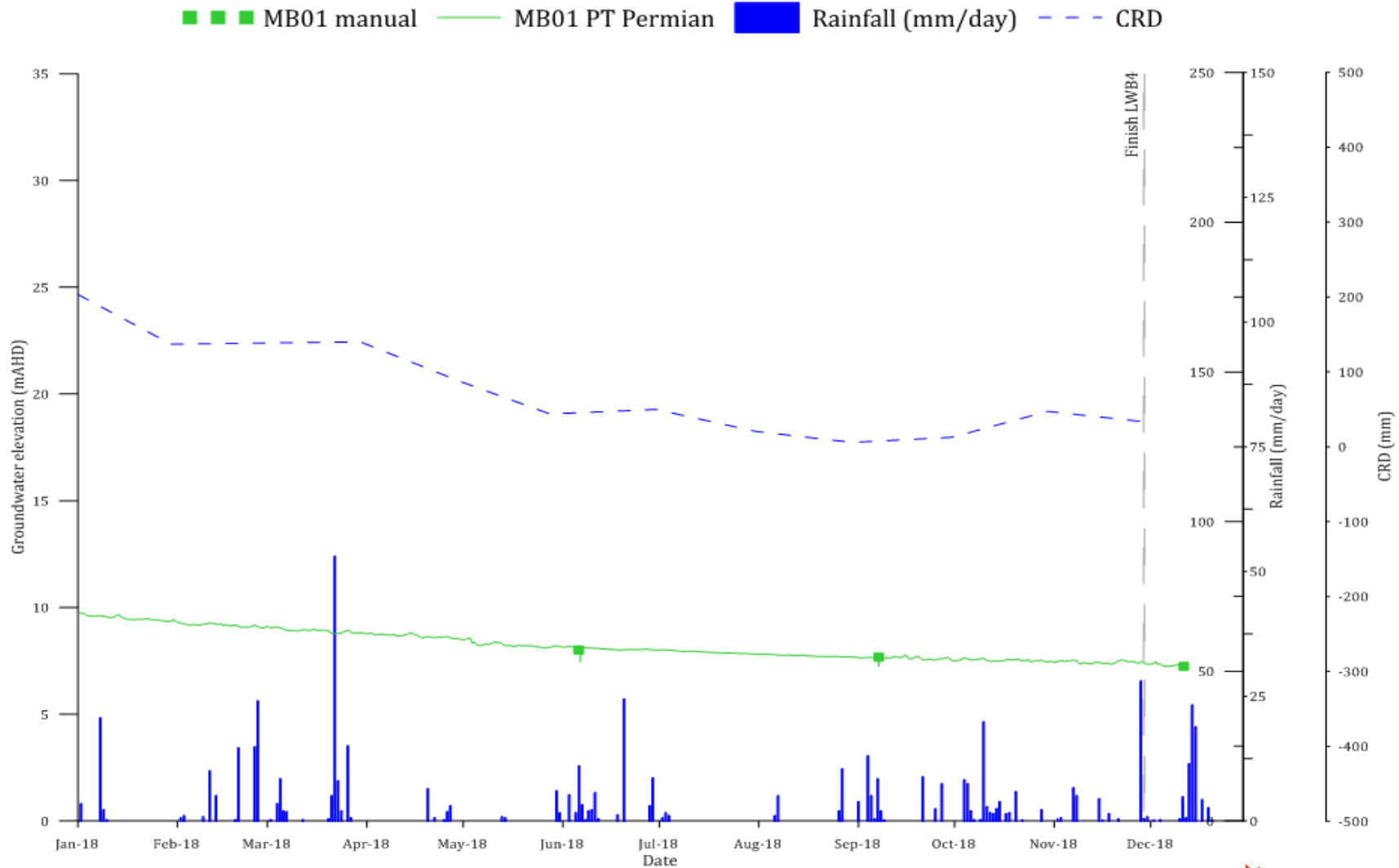
SCALE
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DRAWING No.
Environmental/ Monitoring Plan

A3

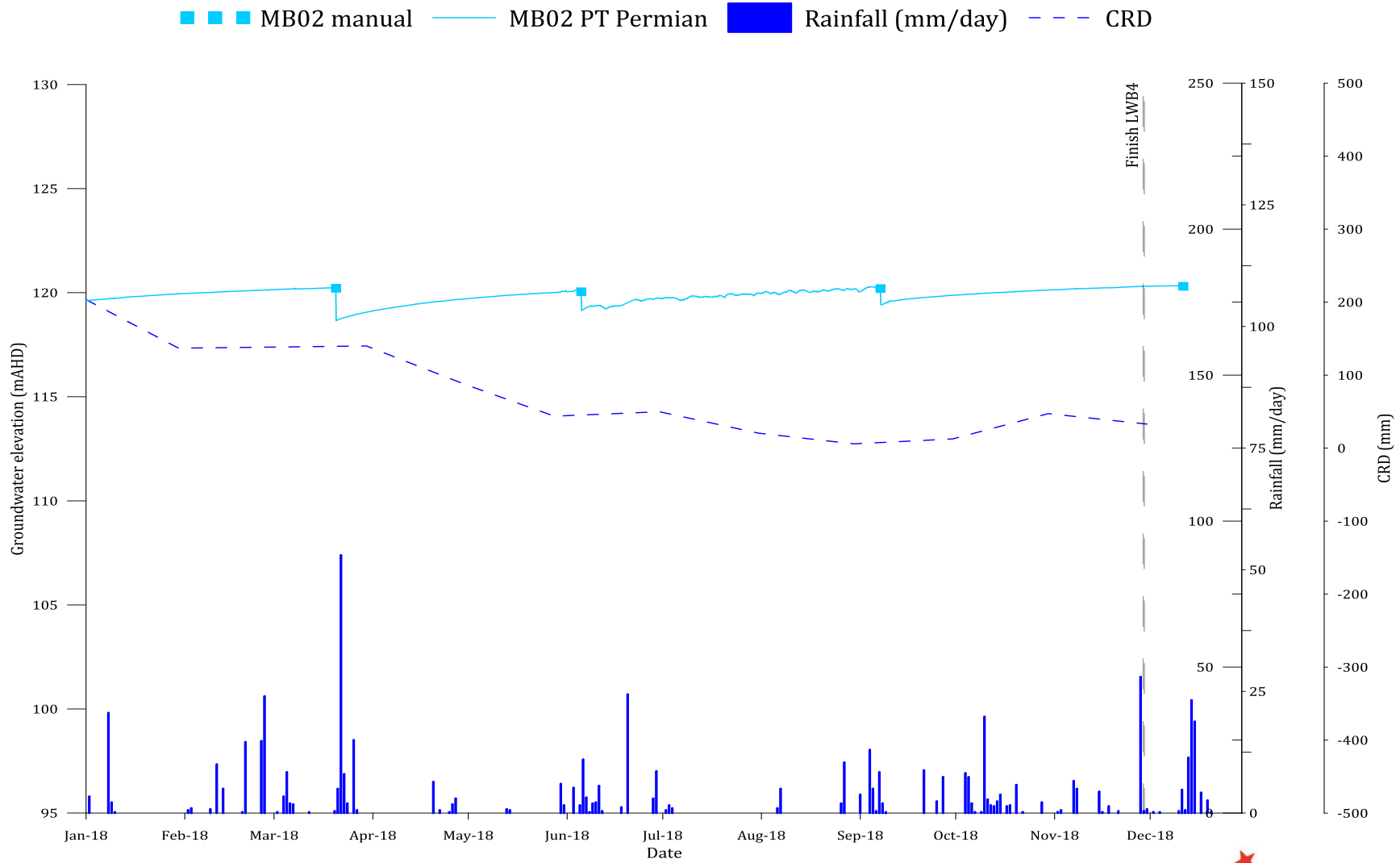


Groundwater Monitoring



**Stage 3 MB01 sandstone aquifer
groundwater level hydrograph**

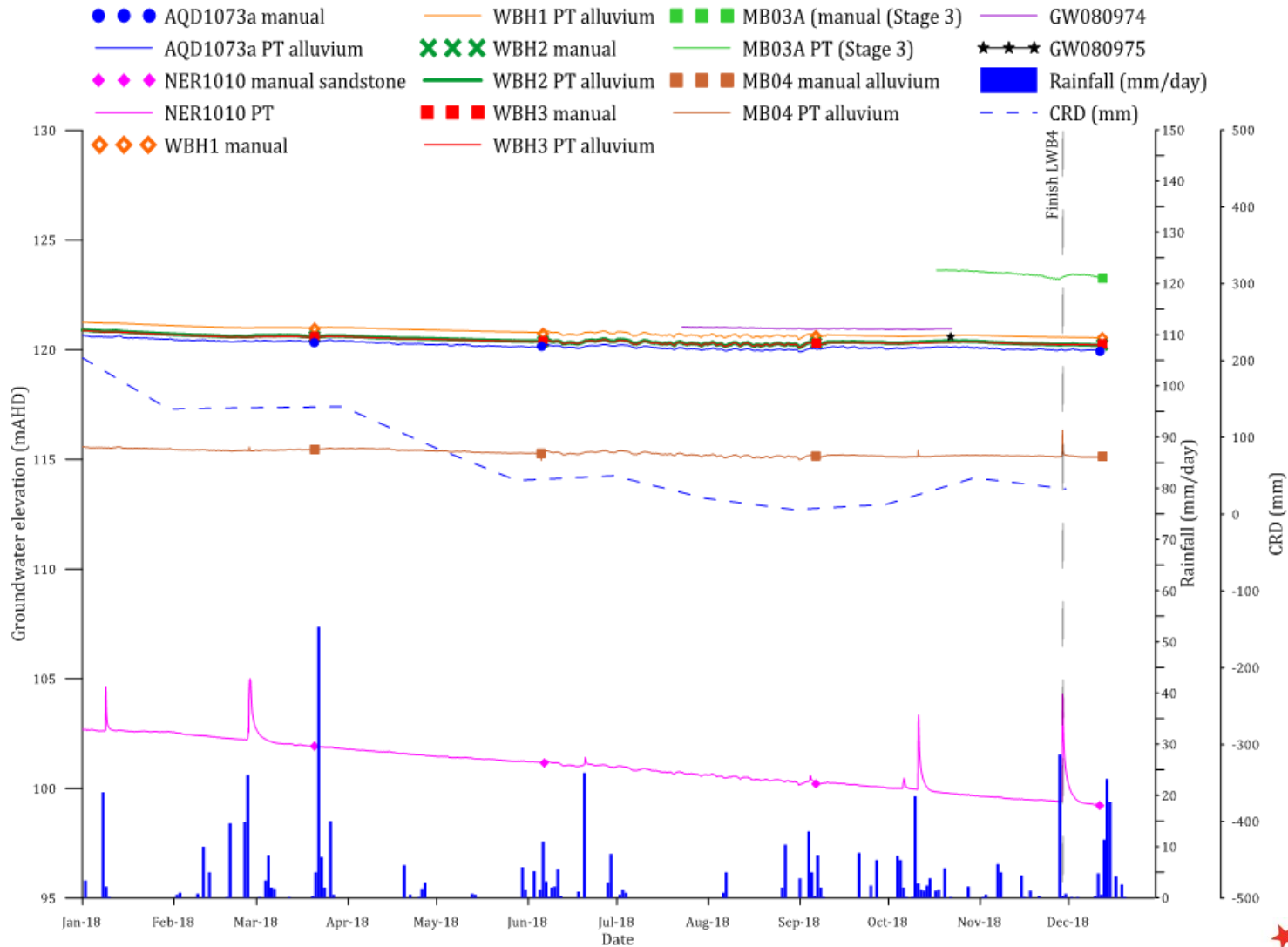
Groundwater Monitoring



**Stage 3 MB02 sandstone aquifer
groundwater level hydrograph**



Groundwater Monitoring



**Stage 2 & Bellbird South alluvium and sandstone aquifer,
and NOW groundwater level hydrographs**

Noise Monitoring

Since last CCC meeting (28 November 2018 to 19 February 2019)

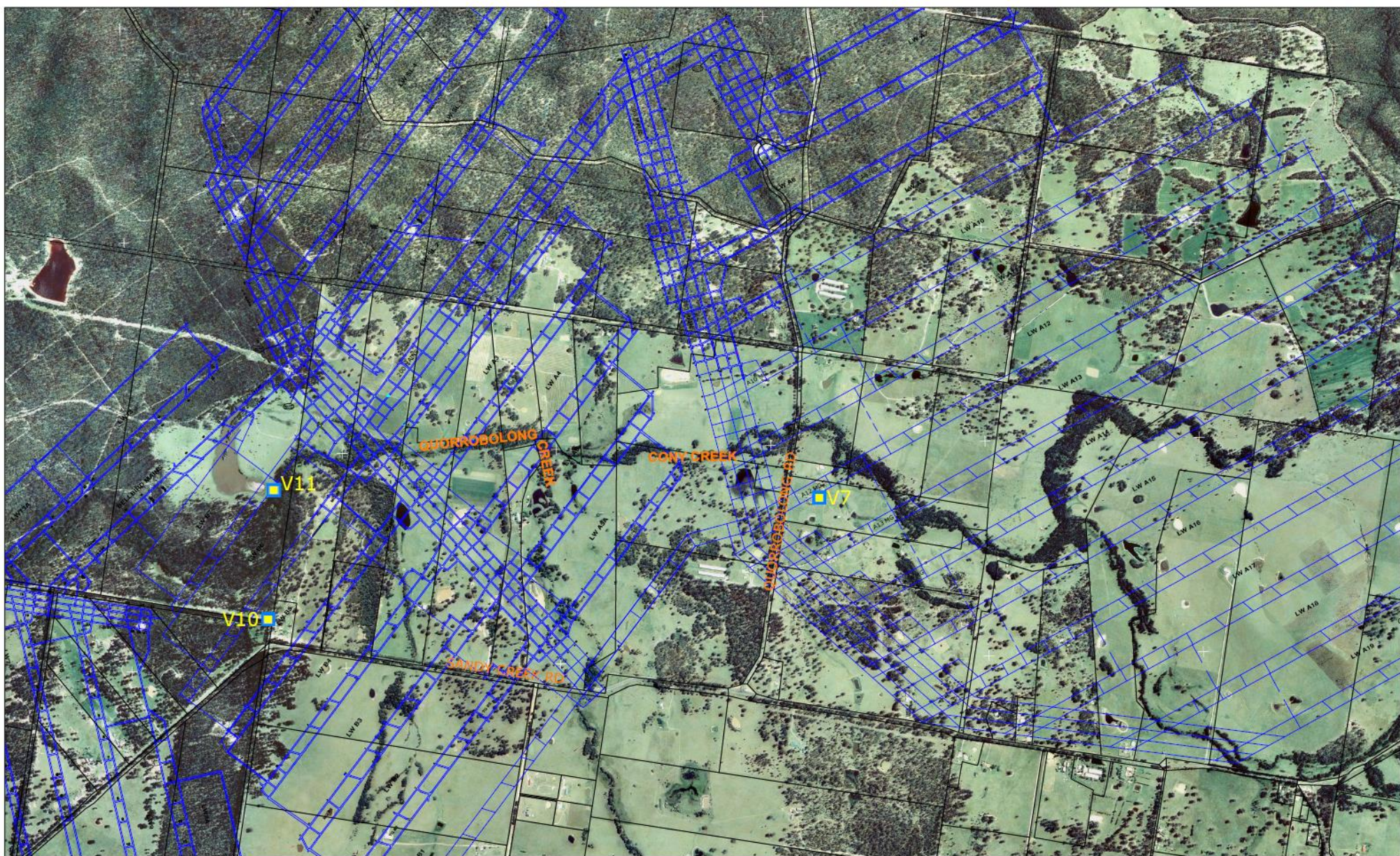
- No noise exceedances were recorded from 28 November 2018 to 19 February 2019

Since last CCC meeting (28 November 2018 to 19 February 2019)

- **Monitor V7 – 345 Quorrobolong Road**
 - Monitoring commenced 11 June 2013
 - No new vibration events recorded greater than 1mm/s on any axis

- **Monitor V11 (Previously V9c) – above LWB6**
 - Monitoring commenced 19 July 2017
 - No new vibration events recorded greater than 1mm/s on any axis
 - Monitor name change in-line with updated Noise and Vibration Management Plan 2018

- **Monitor V10 – above LWB5**
 - Monitoring commenced 28 August 2017
 - No new vibration events recorded greater than 1mm/s on any axis



LEGEND:

 V7 Vibration Monitors

DRAWN
J. Chadwick

DATE
21/1/2019

CHECKED
C. McCormack

APPROVED
C. McCormack

AUSTAR COAL MINE

TITLE
Figure 11: Vibration Monitoring Locations

SCALE
Not to scale

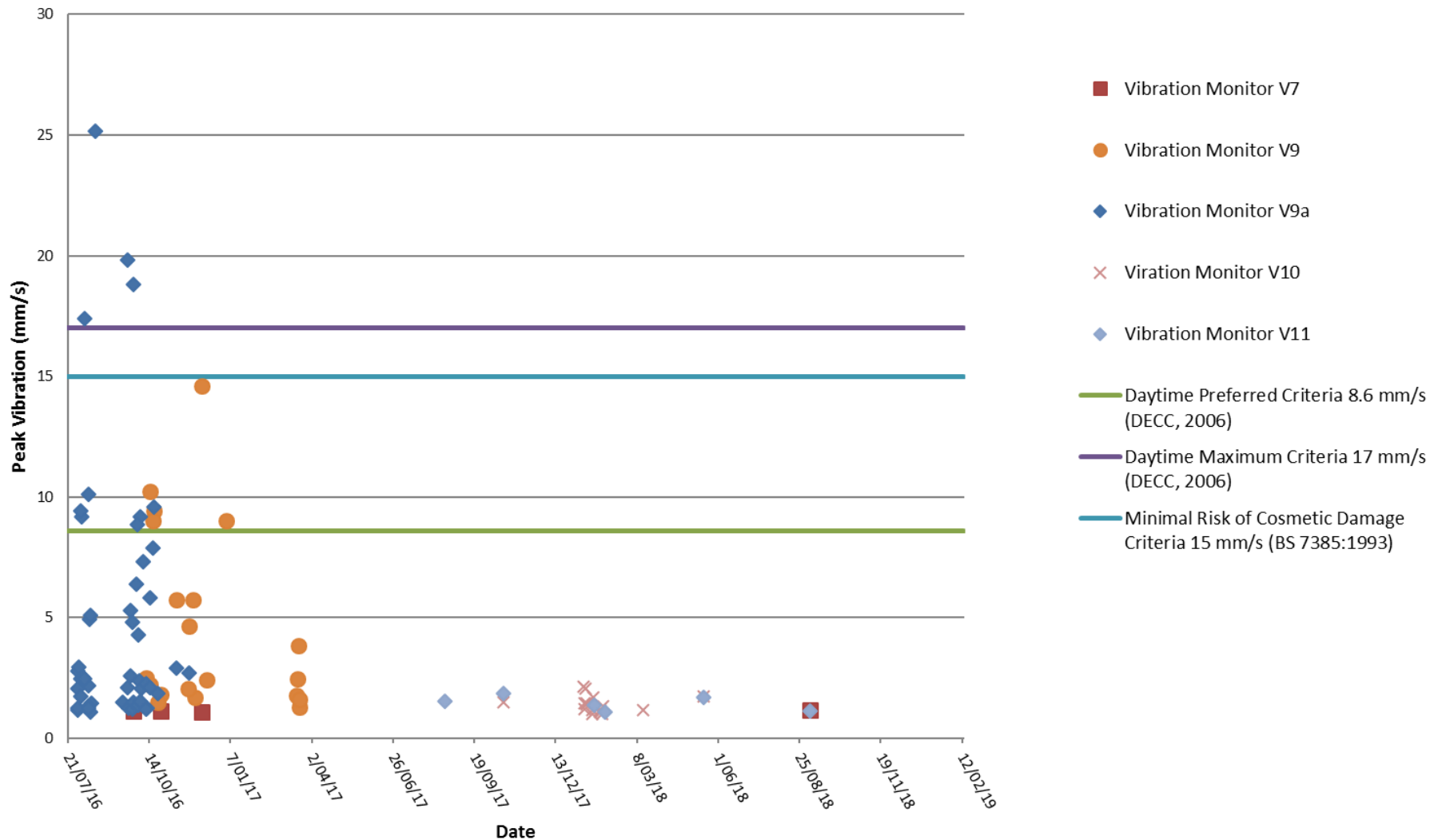
DRAWING No.
Environmental/ Monitoring Plan

A3



Vibration

Austar Peak Ground Vibration - Night and Day Combined (Events > 1mm/sec)



Community Complaints

Since last CCC meeting (28 November 2018 to 19 February 2019)

- NIL Community Complaints

General Business



Community Sponsorship and Donations

- **Sponsorships**
 - Ongoing support Cessnock Rugby League Football Club
- **Community Support Program 2019**
 - Applications open from 3 December 2018 to 31 January 2019
 - 17 applications received
 - Reviewed by committee made up of Austar staff and community representative
 - Committee's recommendations sent to Yancoal CEO for approval

Underground Tour

- Mining has commenced in LWB5
- As per previous request Austar invite Council staff and CCC members on underground tour of the mine
- Numbers limited to 8 people so a single vehicle can be used for transport
- Register interest with E&C Superintendent by 8 March 2019
- Date to be proposed for tour

Completed Reports and Studies

- Bushfire Management Plan – November 2018
 - Copies distributed to RFS & NPWS
- Groundwater Review and Assessment Report – February 2019
 - Refer section Groundwater Monitoring
- Extraction Plan LWB4-LWB7 – January 2019
 - Updated for shortening LWB4 by 279 metres
 - Approved by Department of Planning & Environment (DPE) 12 Feb 19
 - Available on Austar Coal Mine website: www.austarcoalmine.com.au

Other –

Next Meeting /
Close