



Appendix

# A: Dust Monitoring Data

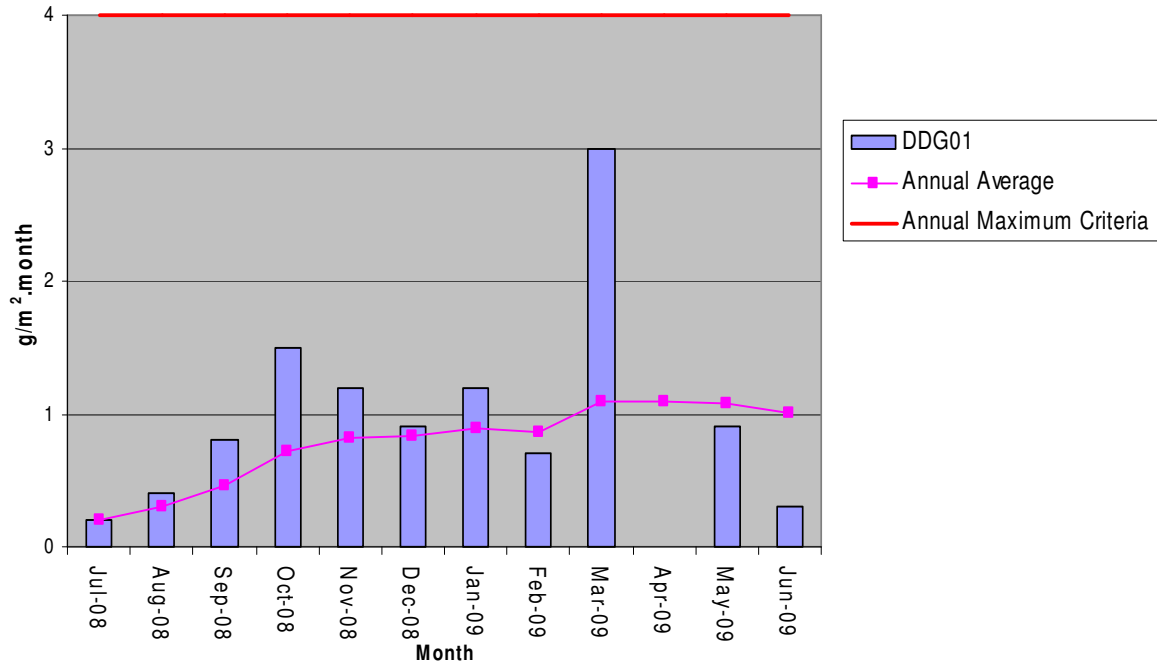
**Austar Coal Mine 2008-2009 Dust Deposition Gauge Results**

Month	DDG01			DDG02			DDG03			DDG04			DDG05			Annual Maximum Criteria
	Insoluble Matter	Annual Average	Ash	Insoluble Matter	Annual Average	Ash	Insoluble Matter	Annual Average	Ash	Insoluble Matter	Annual Average	Ash	Insoluble Matter	Annual Average	Ash	
Jul-08	0.2	0.2	0.2	0.6	0.6	0.3	1.5	1.5	0.8	0.6	0.6	0.4	2.6c	-	0.4	4
Aug-08	0.4	0.3	0.3	7.1c	0.6	4.4	1.5	1.5	1.1	1.5	1.1	1.2	3.3	3.3	2.5	4
Sep-08	0.8	0.5	0.4	0.7	0.7	0.3	2	1.7	0.9	0.7	0.9	0.4	3.7c	3.3	0.8	4
Oct-08	1.5	0.7	0.8	1.7	1.0	0.8	1.1	1.5	0.6	1.8	1.2	1.1	3.3	3.3	1.4	4
Nov-08	1.2	0.8	0.5	0.9	1.0	0.5	1.7	1.6	1	1.1	1.1	0.4	1.1	2.6	0.6	4
Dec-08	0.9	0.8	0.5	1.4	1.1	0.4	0.9	1.5	0.5	2.1	1.3	0.6	0.5	2.1	0.3	4
Jan-09	1.2	0.9	0.7	6.3c	1.1	2.6	3.2	1.7	1.6	2.1	1.4	1.2	2.1	2.1	1.1	4
Feb-09	0.7	0.9	0.5	0.9	1.0	0.5	1.5	1.7	0.7	1.4	1.4	0.9	4.2c	2.1	2.6	4
Mar-09	3	1.1	1.6	1.1	1.0	0.4	1.4	1.6	0.9	1.9	1.5	1.3	3.9c	2.1	1.9	4
Apr-09	Broken	1.1		0.6	1.0	0.4	3.1	1.8	2.3	0.8	1.4	0.1	1.8	2.0	0.8	4
May-09	0.9	1.1	0.4	0.5	0.9	0.3	3.0c	1.8	1.6	0.6	1.3	0.4	4.8c	2.0	2.5	4
Jun-09	0.3	1.0	0.2	0.3	0.9	0.1	9.6c	1.8	3.4	0.6	1.3	0.4	0.9	1.9	0.6	4

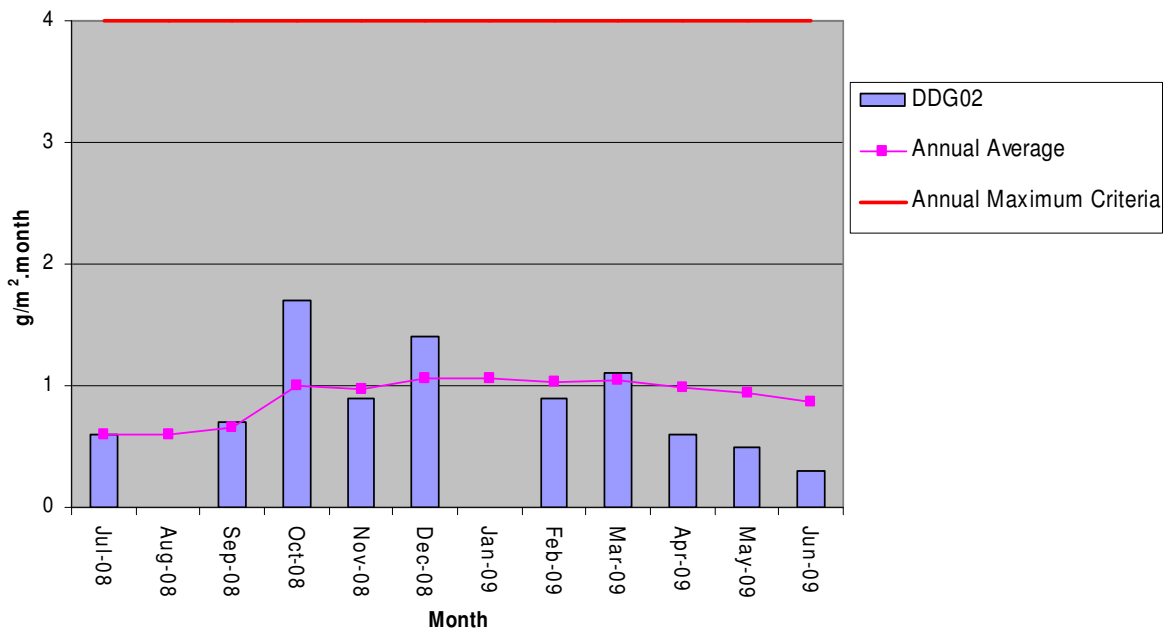


### Dust deposition gauge result graphs

Austar Dust Gauge DDG01 - Insoluble Solids

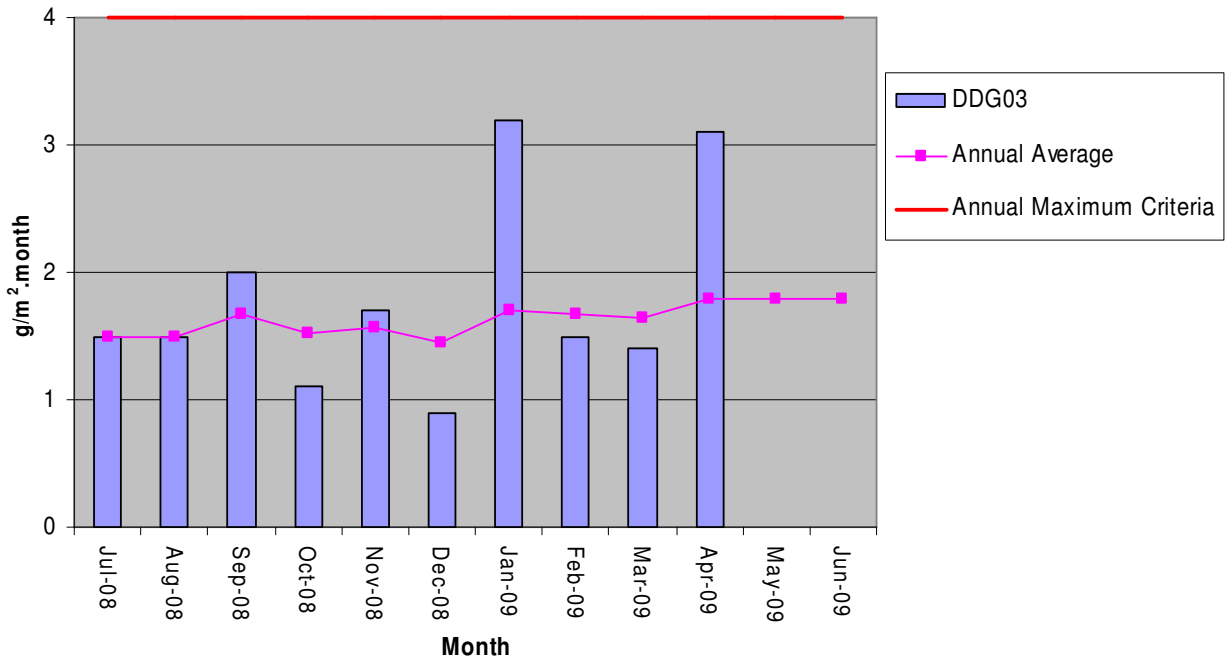


Austar Dust Gauge DDG02 - Insoluble Solids

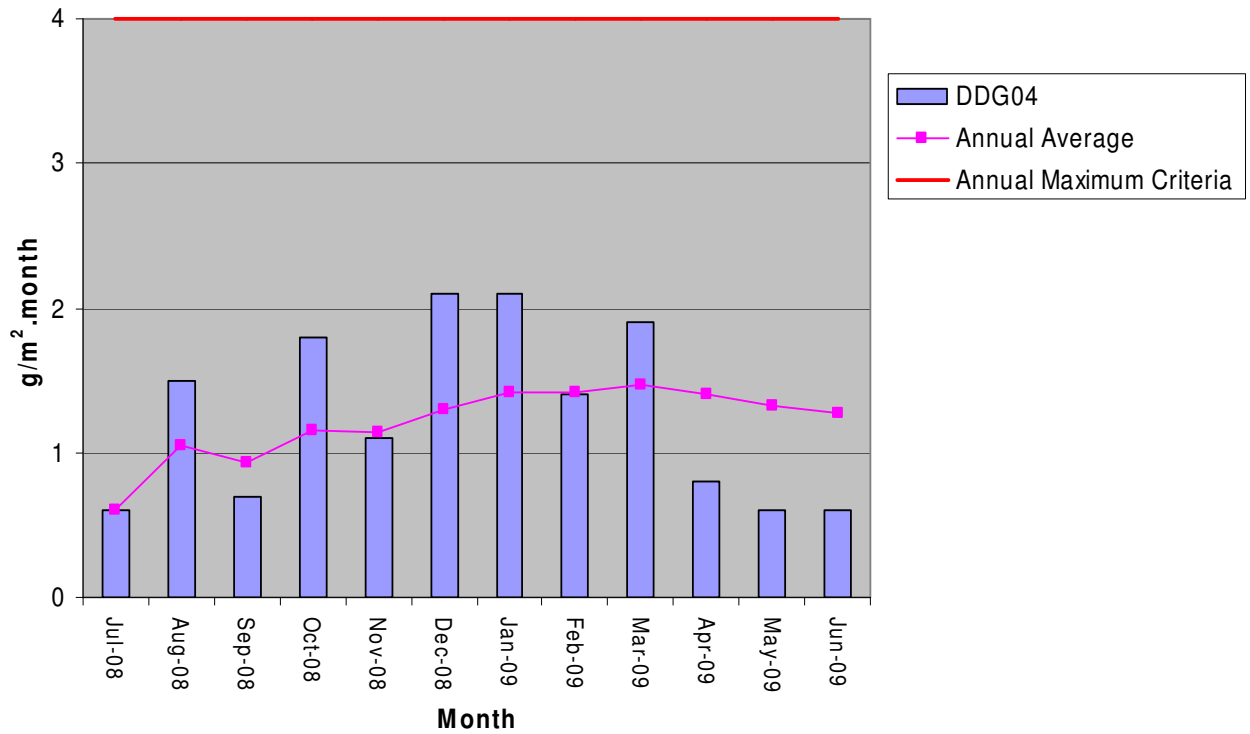




Austar Dust Gauge DDG03 - Insoluble Solids

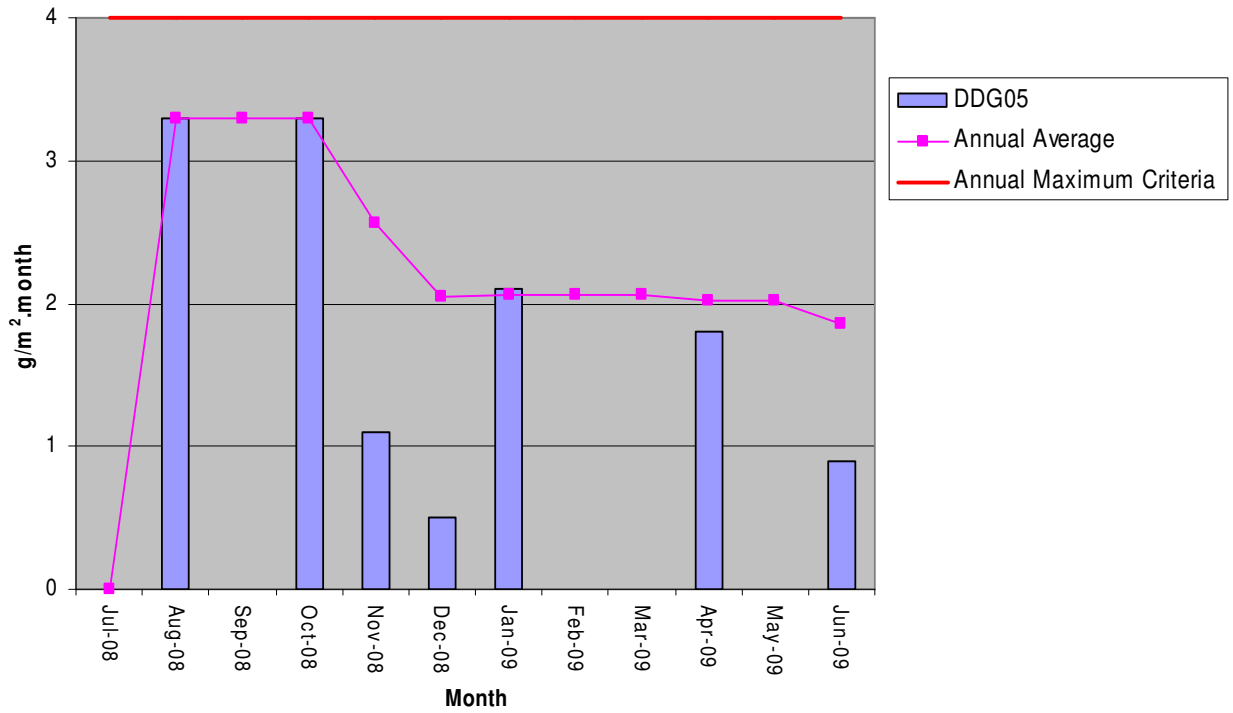


Austar Dust Gauge DDG04 - Insoluble Solids





### Austar Dust Gauge DDG05 - Insoluble Solids



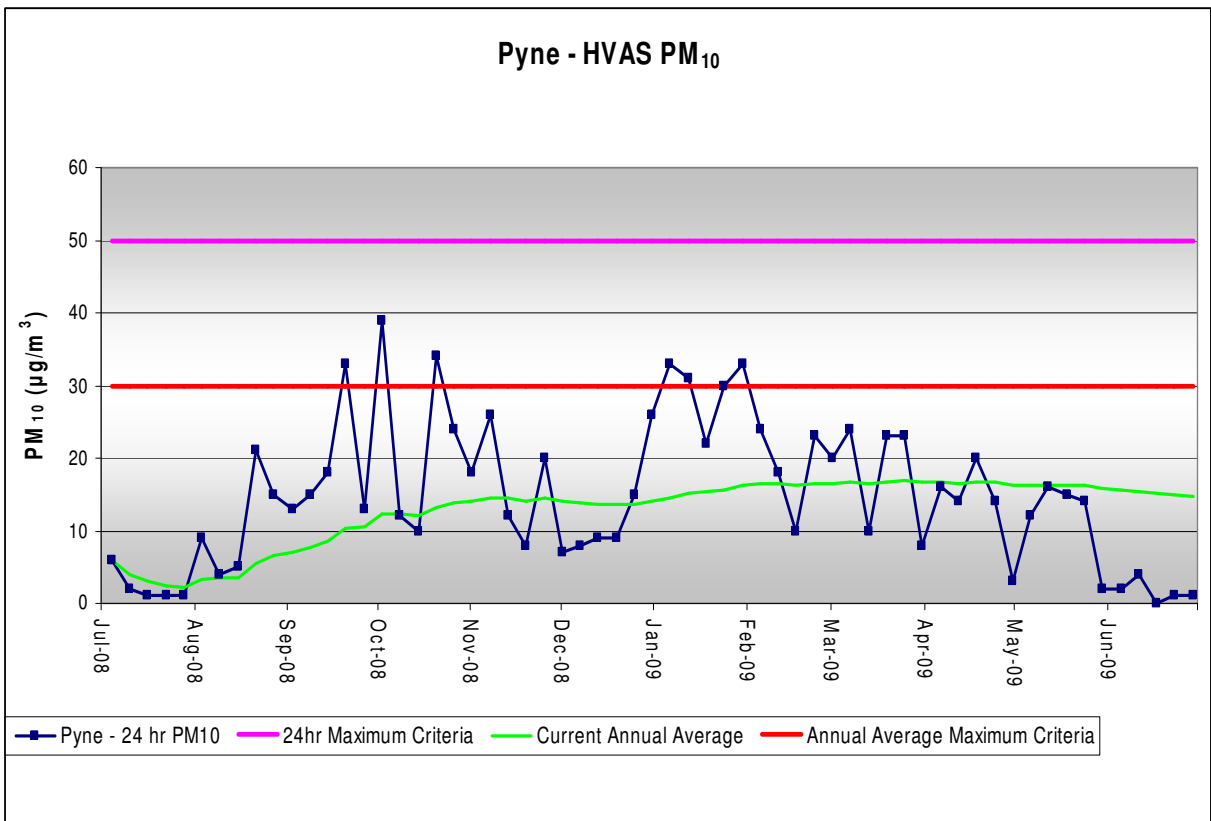
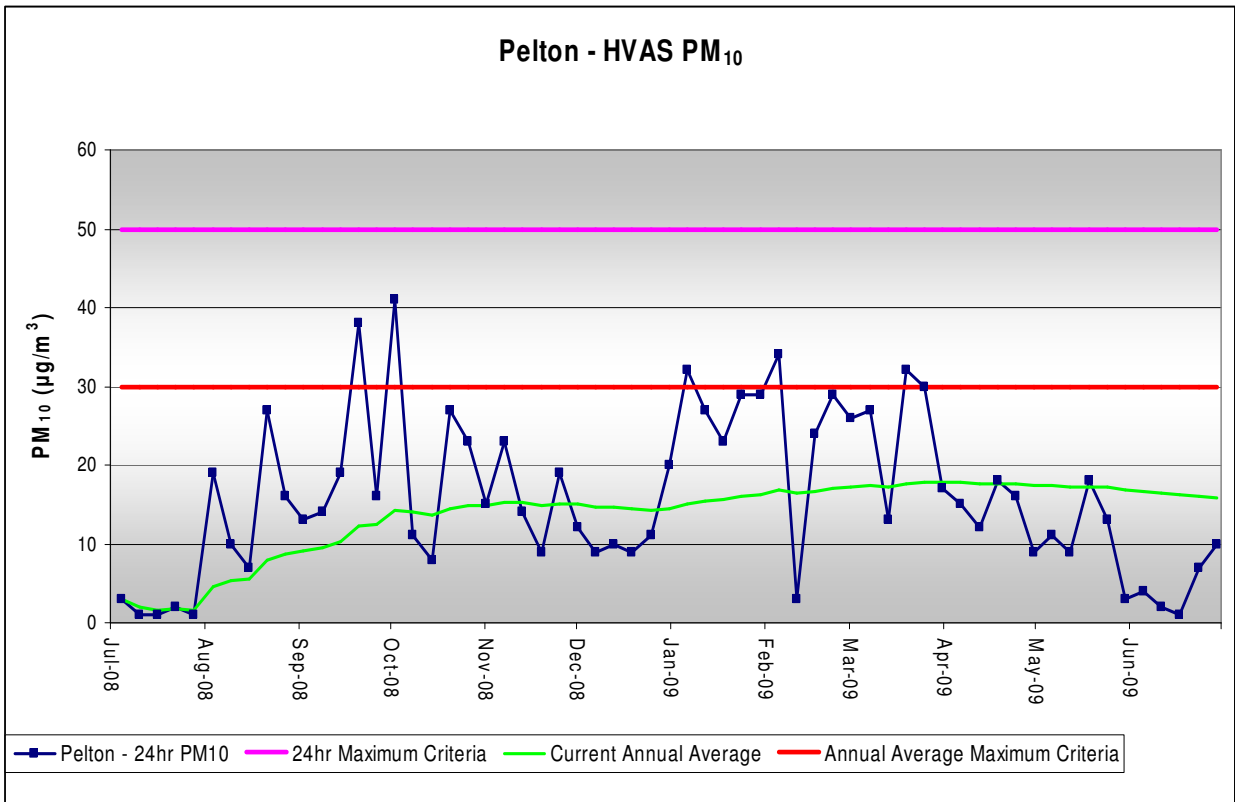


**Austar Coal Mine 2008-2009 High Volume Air Sampler Results (PM<sub>10</sub> ug/m<sup>3</sup>)**

Date	Pelton - 24hr PM10	Monthly Average	Annual Average	Pyne - 24 hr PM10	Monthly Average	Current Annual Average	24hr Maximum Criteria	Annual Average Maximum Criteria
4/07/2008	3		3.0	6		6.0	50	30
10/07/2008	1		2.0	2		4.0	50	30
16/07/2008	1		1.7	1		3.0	50	30
22/07/2008	2		1.8	1		2.5	50	30
28/07/2008	1	1.6	1.6	1	2.2	2.2	50	30
3/08/2008	19		4.5	9		3.3	50	30
9/08/2008	10		5.3	4		3.4	50	30
15/08/2008	7		5.5	5		3.6	50	30
21/08/2008	27		7.9	21		5.6	50	30
27/08/2008	16	15.8	8.7	15	10.8	6.5	50	30
2/09/2008	13		9.1	13		7.1	50	30
8/09/2008	14		9.5	15		7.8	50	30
14/09/2008	19		10.2	18		8.5	50	30
20/09/2008	38		12.2	33		10.3	50	30
26/09/2008	16	20.0	12.5	13	18.4	10.5	50	30
2/10/2008	41		14.3	39		12.3	50	30
8/10/2008	11		14.1	12		12.2	50	30
14/10/2008	8		13.7	10		12.1	50	30
20/10/2008	27		14.4	34		13.3	50	30
26/10/2008	23	22.0	14.9	24	23.8	13.8	50	30
1/11/2008	15		14.9	18		14.0	50	30
7/11/2008	23		15.2	26		14.5	50	30
13/11/2008	14		15.2	12		14.4	50	30
19/11/2008	9		14.9	8		14.2	50	30
25/11/2008	19	16.0	15.1	20	16.8	14.4	50	30
1/12/2008	12		15.0	7		14.1	50	30
7/12/2008	9		14.7	8		13.9	50	30
13/12/2008	10		14.6	9		13.7	50	30
19/12/2008	9		14.4	9		13.6	50	30
25/12/2008	11		14.3	15		13.6	50	30
31/12/2008	20	11.8	14.5	26	12.3	14.0	50	30
6/01/2009	32		15.0	33		14.6	50	30
12/01/2009	27		15.4	31		15.1	50	30
18/01/2009	23		15.6	22		15.3	50	30
24/01/2009	29		16.0	30		15.7	50	30
30/01/2009	29	26.7	16.3	33	29.8	16.2	50	30
5/02/2009	34		16.8	24		16.4	50	30
11/02/2009	3		16.4	18		16.4	50	30
17/02/2009	24		16.6	10		16.3	50	30
23/02/2009	29	22.5	17.0	23	18.8	16.5	50	30
1/03/2009	26		17.2	20		16.5	50	30
7/03/2009	27		17.4	24		16.7	50	30
13/03/2009	13		17.3	10		16.6	50	30
19/03/2009	32		17.6	23		16.7	50	30
25/03/2009	30		17.9	23		16.8	50	30
31/03/2009	17	24.2	17.9	8	18.0	16.7	50	30



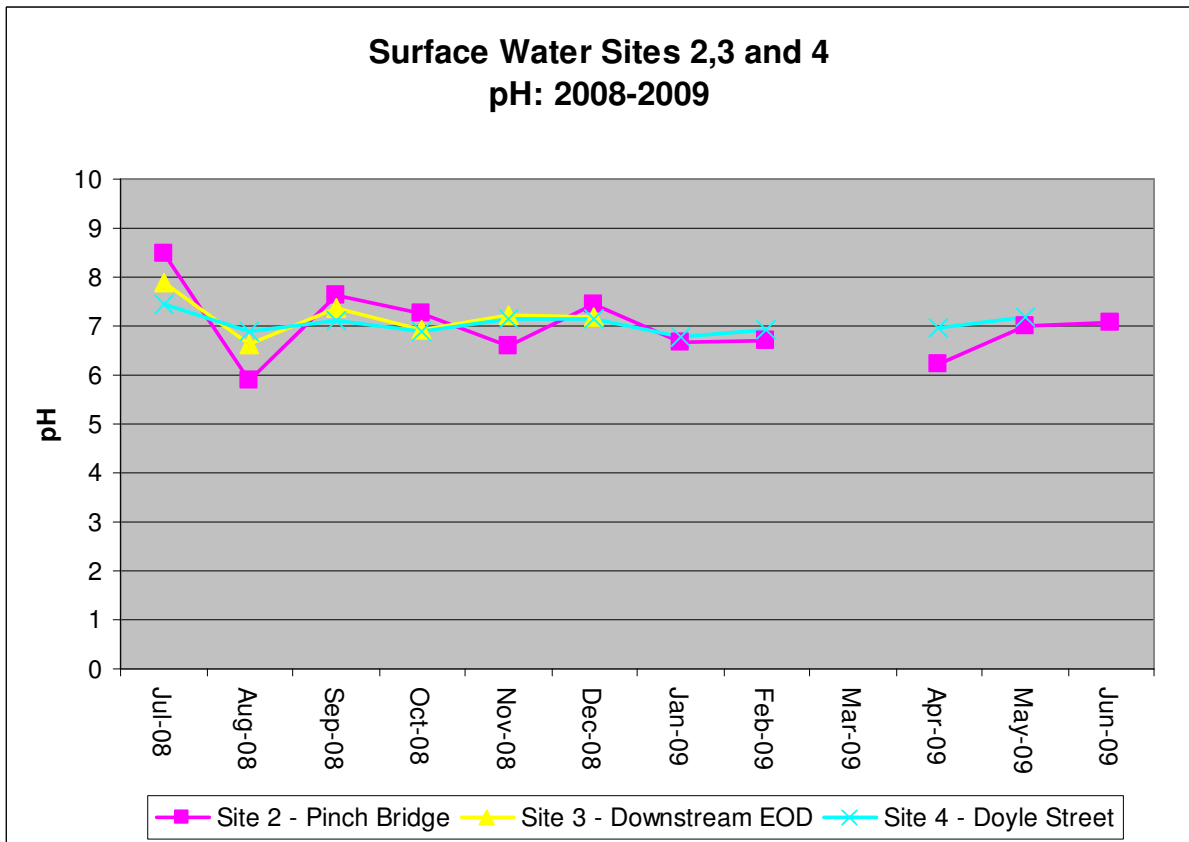
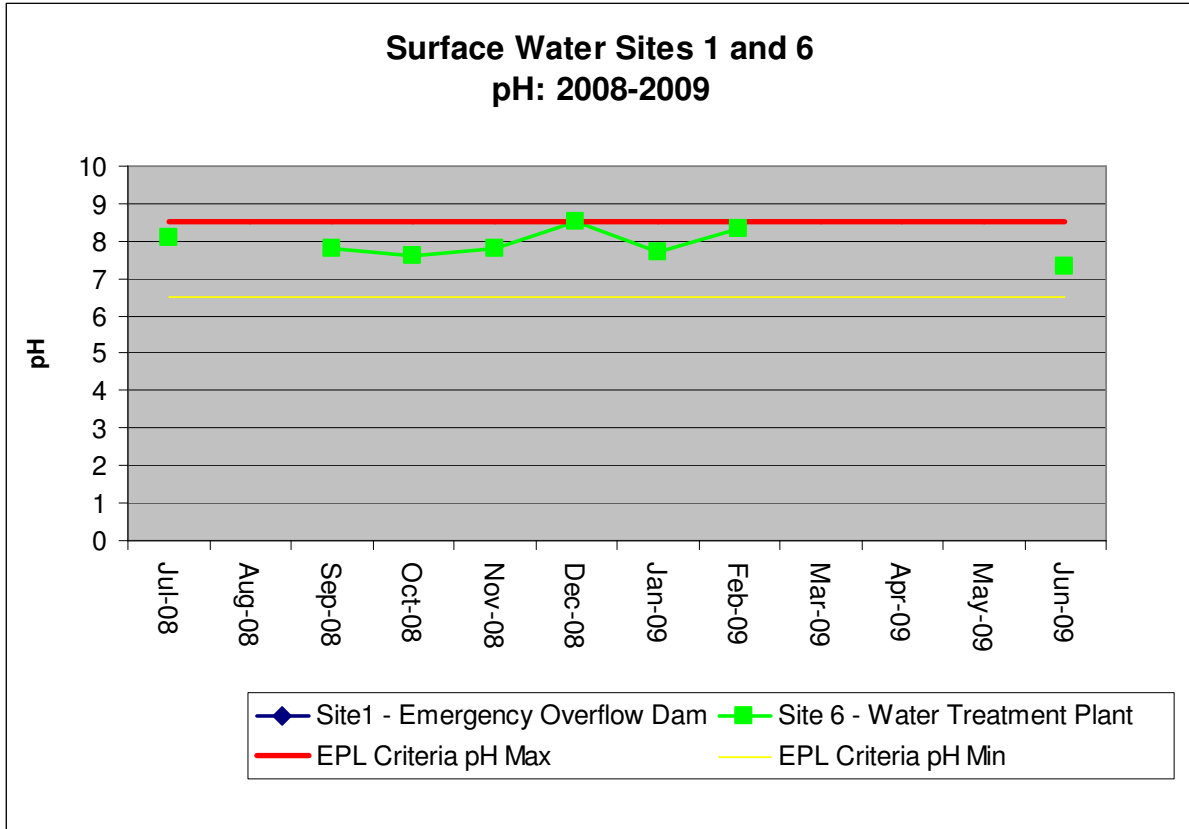
Date	Pelton - 24hr PM10	Monthly Average	Annual Average	Pyne - 24 hr PM10	Monthly Average	Current Annual Average	24hr Maximum Criteria	Annual Average Maximum Criteria
6/04/2009	15		17.8	16		16.6	50	30
12/04/2009	12		17.7	14		16.6	50	30
18/04/2009	18		17.7	20		16.7	50	30
24/04/2009	16		17.7	14		16.6	50	30
30/04/2009	9	14.0	17.5	3	13.4	16.3	50	30
6/05/2009	11		17.4	12		16.3	50	30
12/05/2009	9		17.2	16		16.2	50	30
18/05/2009	18		17.2	15		16.2	50	30
24/05/2009	13		17.2	14		16.2	50	30
30/05/2009	3	10.8	16.9	2	11.8	15.9	50	30
5/06/2009	4		16.7	2		15.7	50	30
11/06/2009	2		16.4	4		15.5	50	30
17/06/2009	1		16.2	0		15.2	50	30
23/06/2009	7		16.0	1		15.0	50	30
29/06/2009	10	4.8	15.9	1	1.6	14.8	50	30

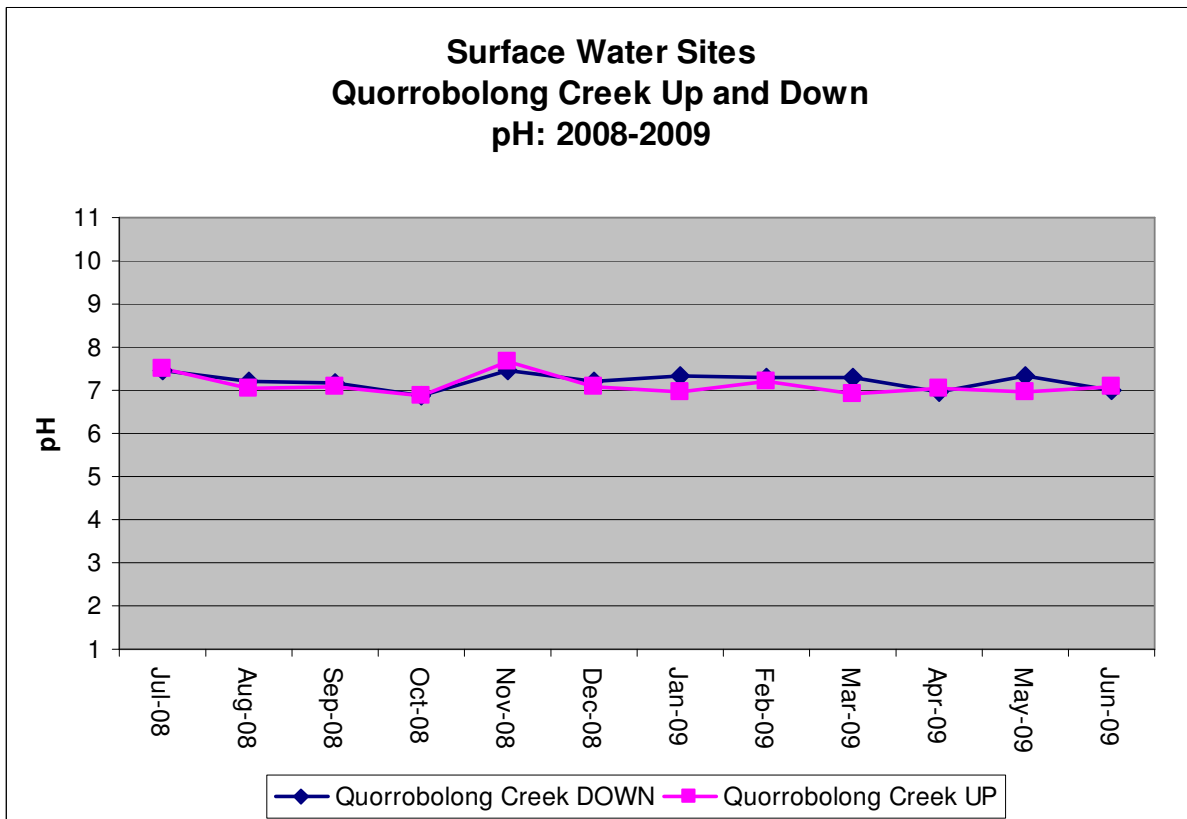
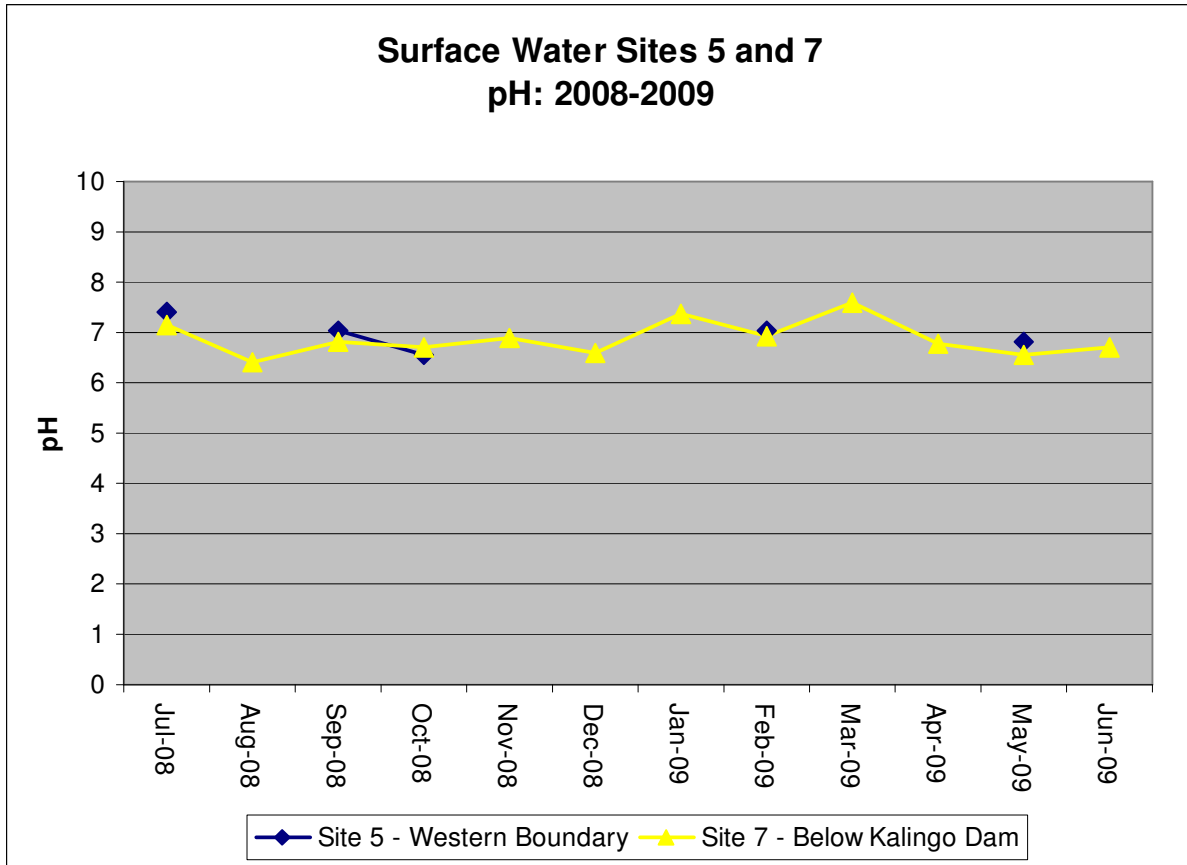


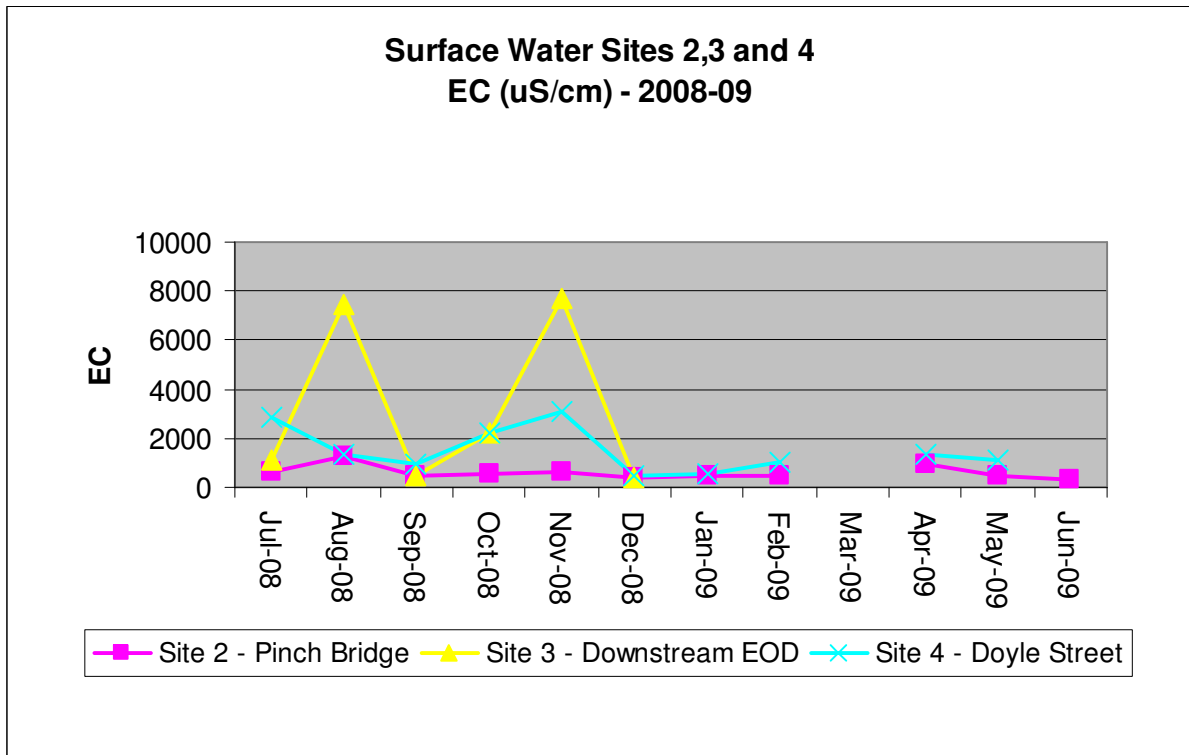
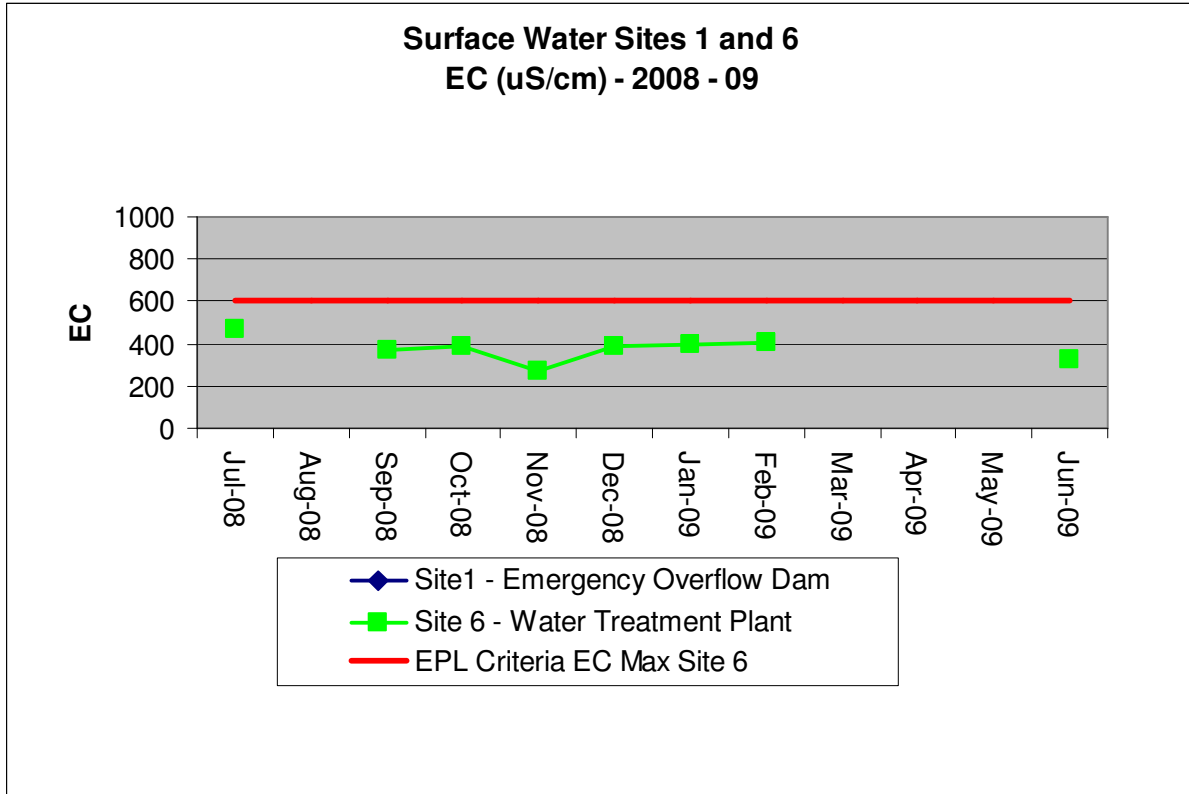


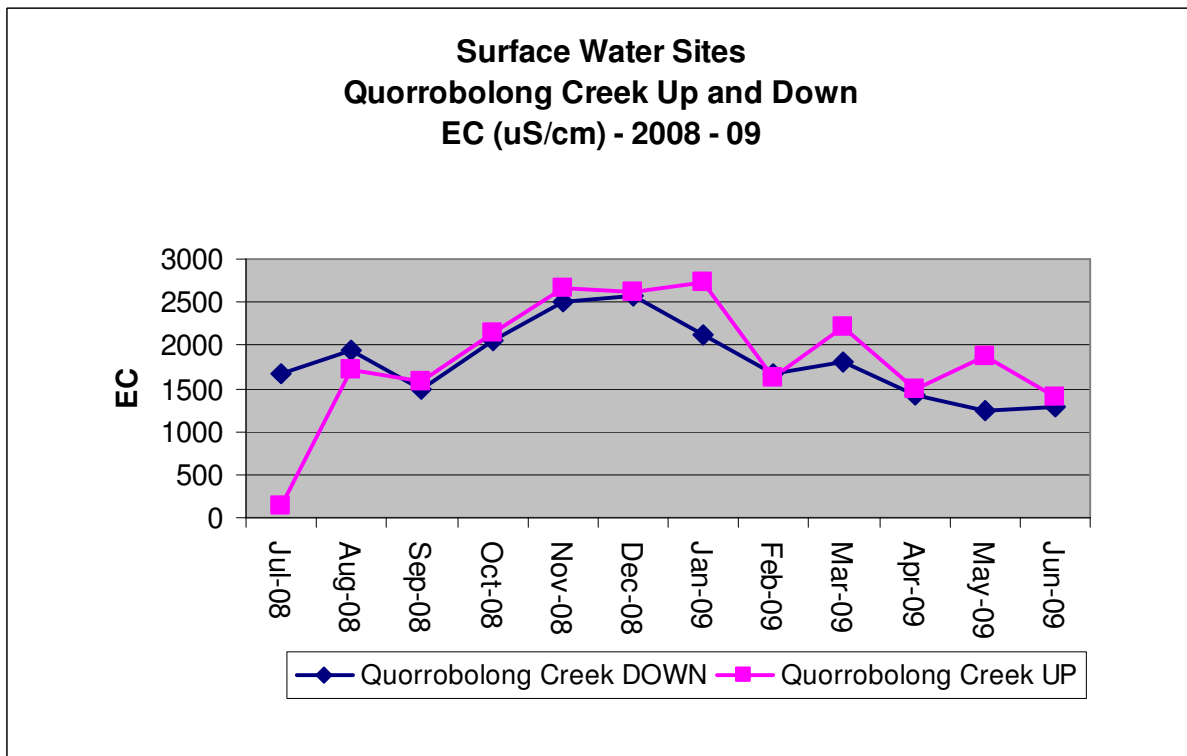
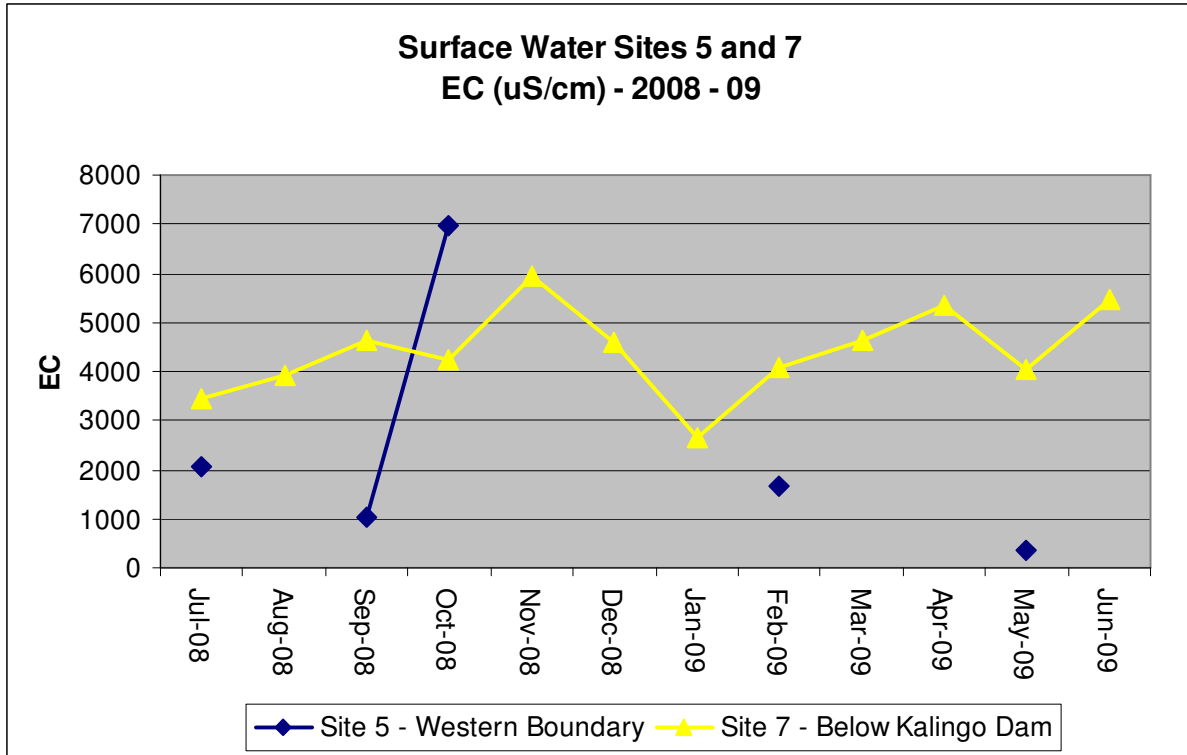
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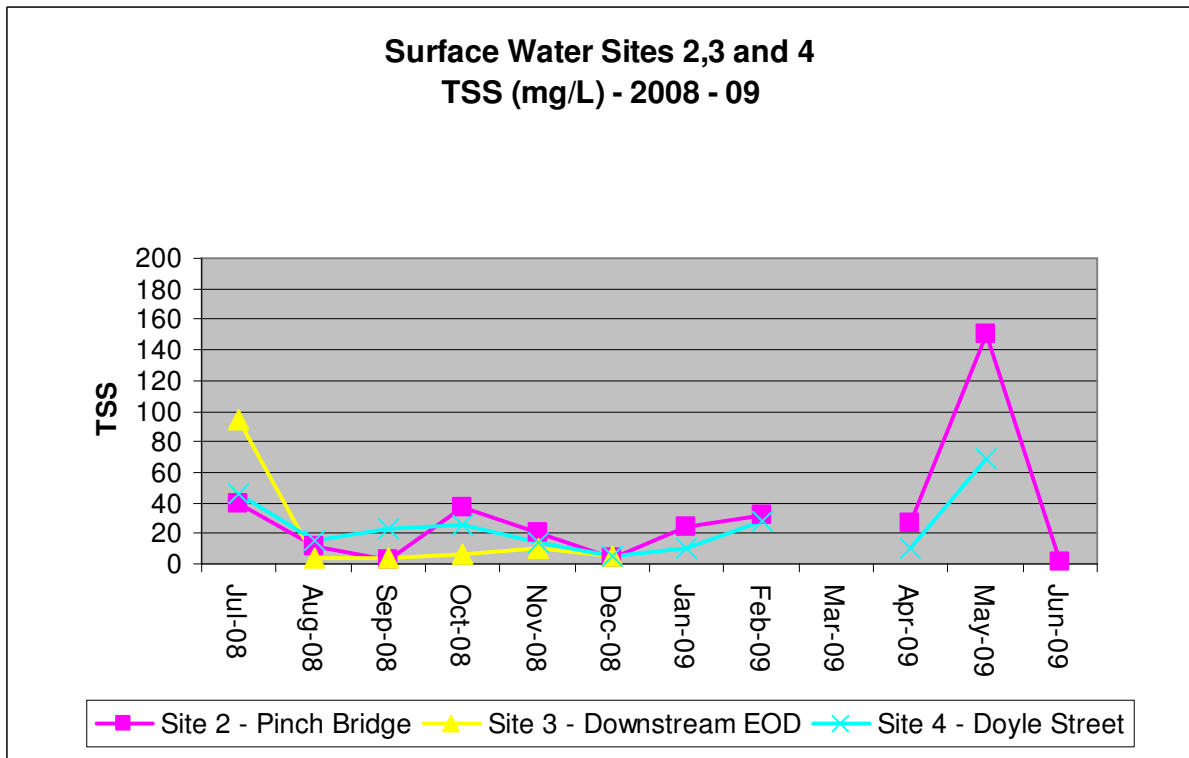
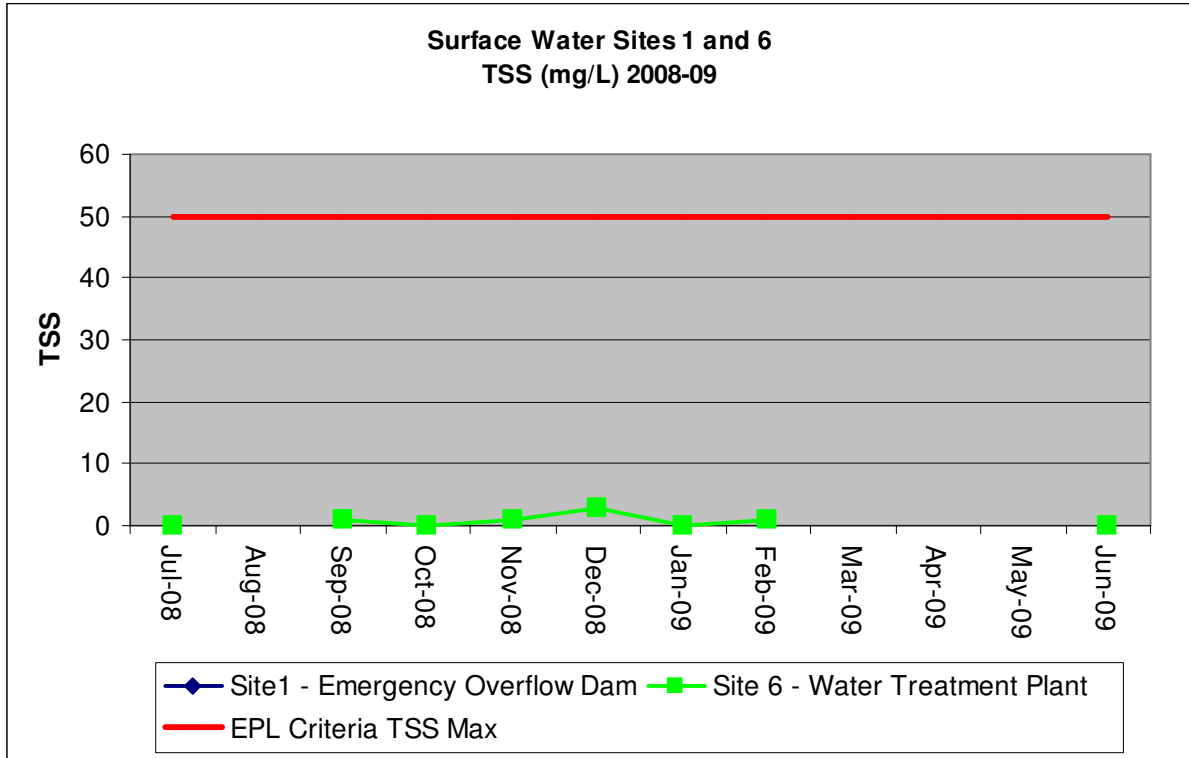
**B: Water Quality Data**

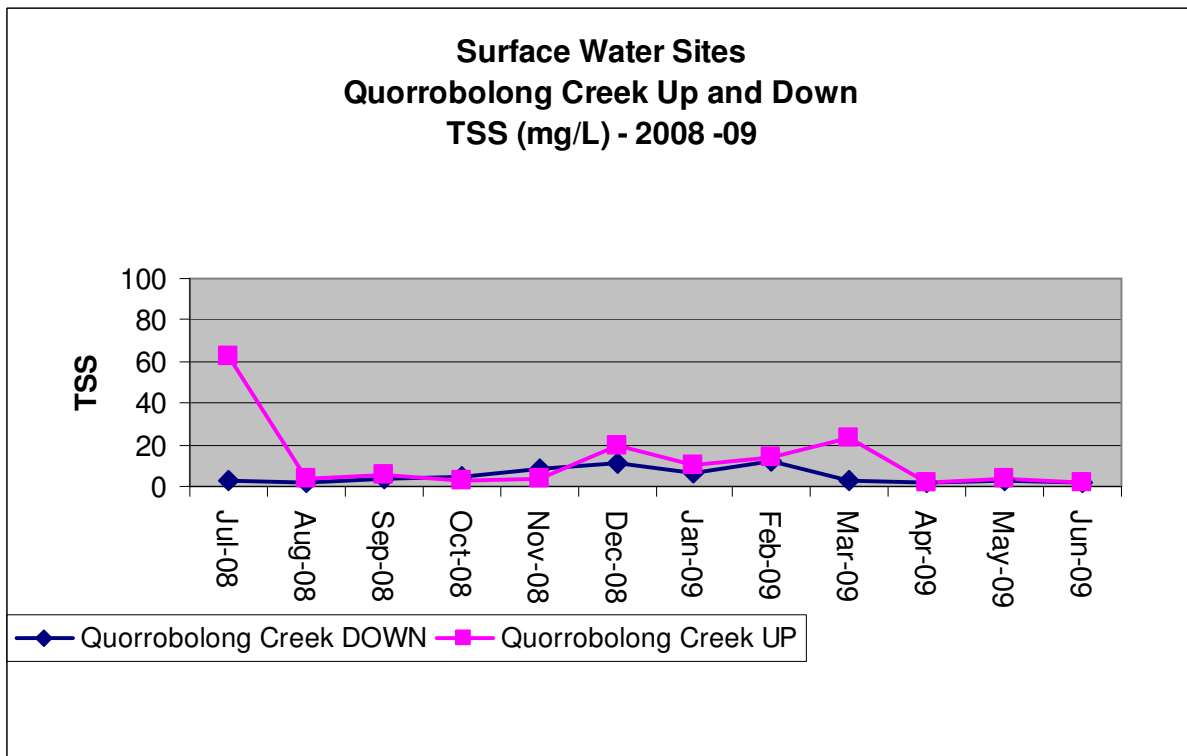
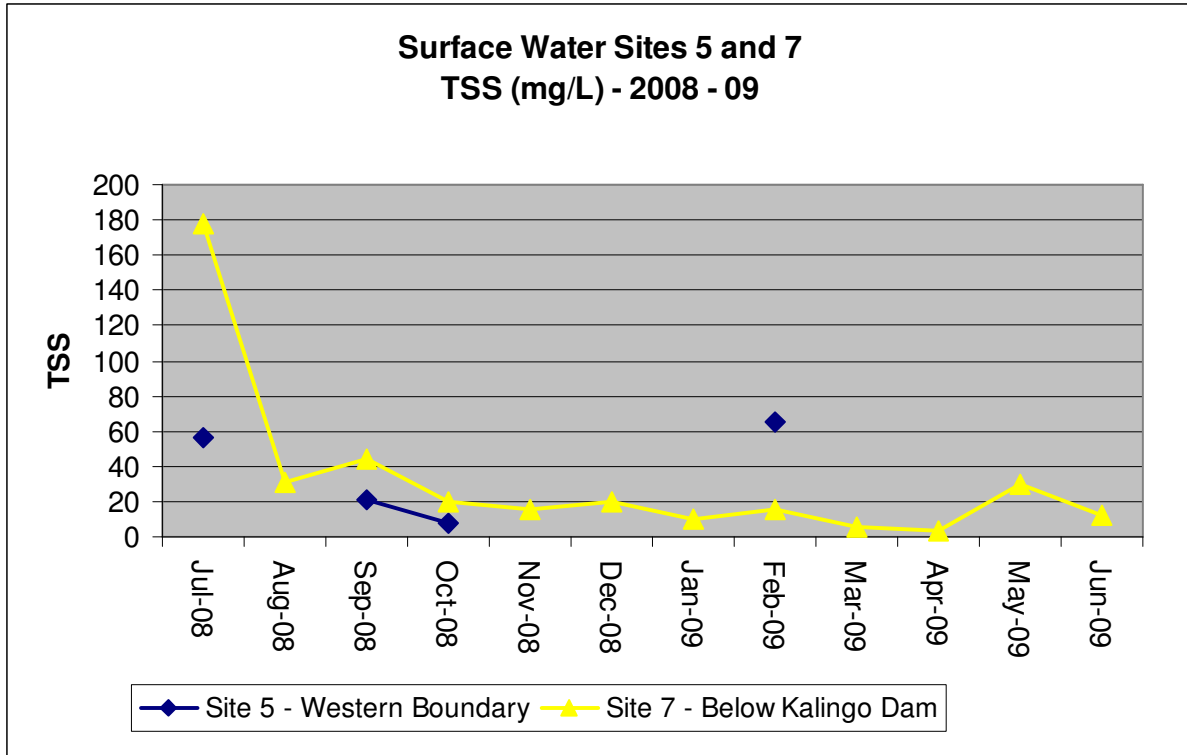












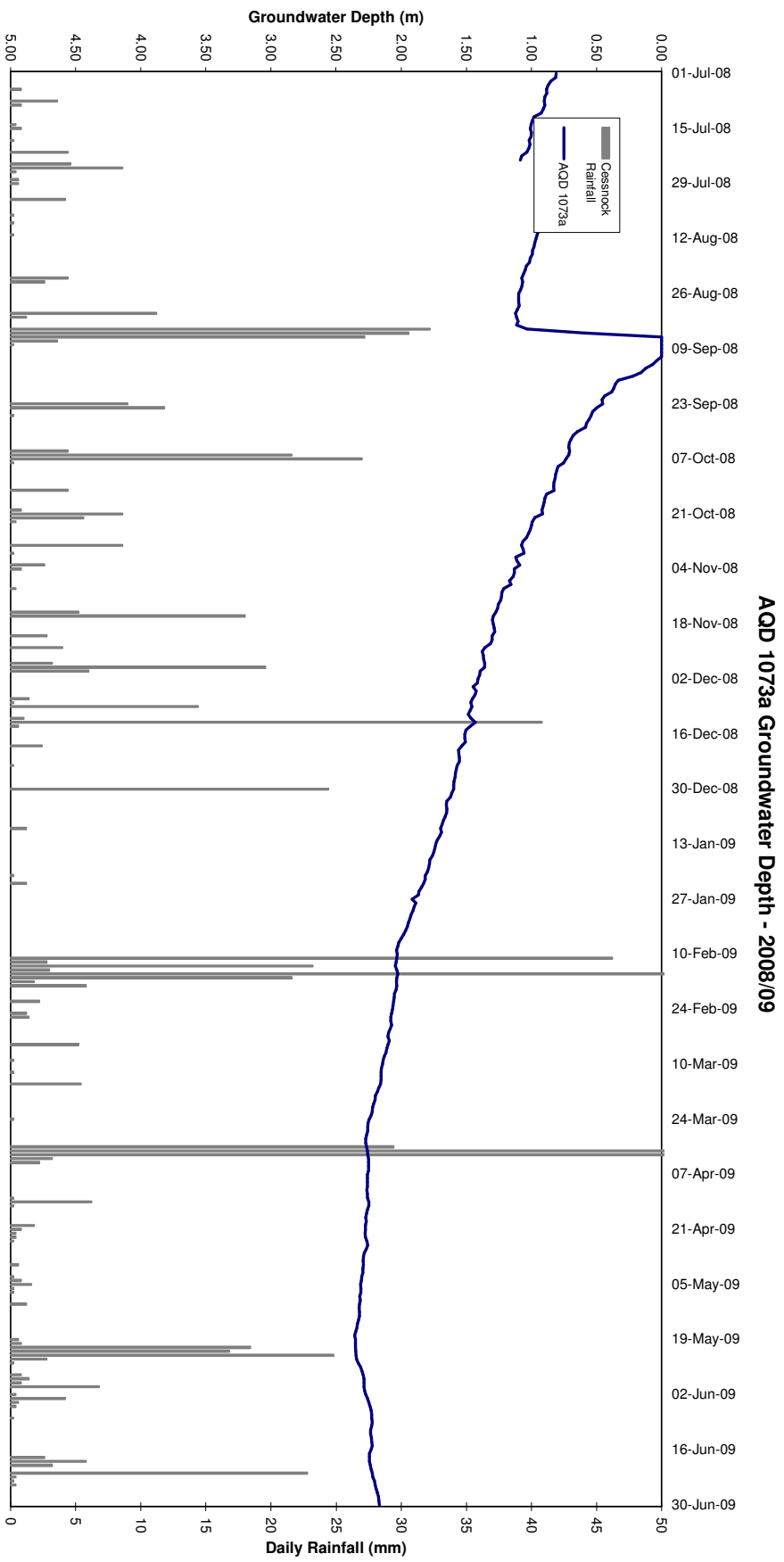


Appendix

# **C: Alluvial Groundwater Level Monitoring Data**



### Alluvial Groundwater Level Monitoring Data





Appendix

**D: Subsidence Management Status  
Report LWA3 - June 2009**



Appendix

# E: Community Complaints

**Austar Coal Mine 2008- 2009 Community Complaints**

<b>Complaint Number</b>	<b>Date</b>	<b>Type of Contact</b>	<b>Location</b>	<b>Detail</b>	<b>Action</b>
1	24/07/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	Complainant called in regard to noise and vibration	The Environmental Coordinator called but there was no answer. 4 trains were running that day, 2 x am (7:20 and 9:30) and 2 x pm (5:25 and 6:50). The washery was operating.
2	6/08/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	Complainant called in regard to noise.	The Environmental Coordinator returned the complainants call later that day but there was no answer. The Environmental Coordinator left a message confirming that the CHPP was operating and that there were no trains loaded. The Environmental Coordinator explained that the noise study was still ongoing.
3	9/10/2008	Call to CCC member	Swan Ln Quorrobolong	The complainant believed he had been experiencing vibration at his home for about the last 9 months.	The Environmental Coordinator had phoned the complainant in regard to his resignation from the CCC. The complainant then began to discuss that he had been experiencing vibration in his home for around 9 months and asked if this could be vibration from the underground equipment and whether other people had complained of similar things. The Environmental Coordinator explained that this was unlikely as the underground equipment is quite deep and quite a distance from the complainant's property. The Environmental Coordinator explained that other residents had complained of similar things, but they are situated much close to the CHPP and that it was more likely to be the result of low frequency noise



Complaint Number	Date	Type of Contact	Location	Detail	Action
					and temperature inversions. The Environmental Coordinator explained the Noise PRP to the complainant and offered him a copy of the report once it was approved by DECC. The complainant said he would like a copy of the report.
4	10/10/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	The complainant called in regard to his bathroom window rattling	The Environmental Coordinator returned the complainants call regarding the window rattling. The Environmental Coordinator explained that there were no unusual operations happening, that the CHPP was operating and that a train was being loaded at the time of the complaint. The Environmental Coordinator also explained that the past few nights have been colder again and that it was most likely to be the result of a temperature inversion. The Environmental Coordinator also explained that the Noise PRP Report had been submitted to DECC and that the recommendations from the report were being actioned.
5	15/10/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	The complainant called in regard to noise and his vibration report	The Environmental Coordinator explained that there were no unusual operations and that it was most likely just due to the fact that it had been overcast for the past couple of days and that this can cause amplification and reflection of noise. The complainant asked about the report for the vibration monitor that had been at his property during the time of the noise study. The Environmental Coordinator explained that the report would be forwarded to them when



Complaint Number	Date	Type of Contact	Location	Detail	Action
					it was finalised.
6	17/10/2008	DECC Complaint Line	NA	DECC forwarded a complaint via email that was received by them on 16/10 regarding noise and vibration. Caller concerned about widening cracks in the home caused by vibration	Austar indicated noise has been greatly reduced recently but this week has been back to old levels.
7	4/11/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	The complainant called in regard to noise and vibration.	The complainant stated that they had been experiencing noise and vibration at there residence for the past 5 days and that the bathroom window had been rattling. The Environmental Coordinator explained that there had been normal operations occurring continuously for the period. The Environmental Coordinator also explained that they had received the noise and vibration reports and would be forwarding them to the complainant in the near future. The Environmental Coordinator then spoke with the CHPP Manager who explained that the stockpile was high and the dozer had been working up high. There had been no trains during the period.
8	13/11/2008	Call to Austar Community Complaints Line	Pyne Way Mt View	Complainant called in regard to noise.	The complainant stated that the noise had been audible for many previous nights. The Environmental Coordinator returned the call and spoke to the complainant's partner. They stated that it had been constantly noisy for about three weeks and that the dozer and trains were audible. The Environmental Coordinator explained that the company was doing as much as it could at present to



Complaint Number	Date	Type of Contact	Location	Detail	Action
					reduce the noise, but that it would take time to get everything in place.
9	9/12/2008	Call to Austar Community Complaints Line	Bimbadeen Road	The complainant called in regard to noise	The complainant stated that the previous morning (8/12), the dozer had been particularly noisy and they could hear a loud, metallic slapping noise that sounded like a jackhammer. They had also heard a continuous beeping noise that went for up to half an hour at a time. The Environmental Coordinator attempted to return the complainants call twice, but the line was engaged. The Environmental Coordinator was informed that there were road works being conducted at the CHPP and that the beeping was from the grader and roller and that they needed to have the beepers working due to safety reasons.
10	2/02/2009	Called Environmental Coordinators line	Ellalong	The complainant called to enquire about a number of shocks felt throughout the morning.	As there was no mining occurring at Austar, the Environmental Coordinator called Range Control at the Singleton Military Area to enquire about their activities. A representative informed the Austar Environmental Coordinator that there had been some small explosions that morning, but that these should not have been felt in Cessnock. The Environmental Coordinator then called the complainant and explained the above. The Environmental Coordinator could not comment on the source.



Complaint Number	Date	Type of Contact	Location	Detail	Action
11	6/03/2009	Call to Austar Community Complaints Line	Bimbadeen Road	Complainant called to complain about continued dozer noise and mine noise late on Friday night and Saturday mornings.	Austar contract environmental officer called at 9:10am on 10/3/09. No answer.
12	11/03/2009	Call to Austar Community Complaints Line	Q14 Private Access Road	Complainant called to complain about lack of notice for #2 shaft pipeline works near her property.	Austar Mine Manager returned the call to discuss the issue.
13	13/03/2009	Call to Austar Community Complaints Line	Q14 Private Access Road	Complainant left a message complaining about blocked access in relation to works being carried out on Q14 Crown Easement Road.	Austar Mine Manager met with the complainant and discussed ways of minimising impacts during future works
14	22/03/2009	Call to Austar Community Complaints Line	Wollombi Rd	Complainant left a message regarding "rolling explosions" they could hear at 930am Sunday morning and asked if Austar were blasting. The complainant asked if Austar could call back.	Austar contract environmental officer called at 830am on 24/3/2009. No Answer. Left a message, asking to call back if they wish to discuss the issue.
15	13/04/2009	DECC contacted Austar Tech Services Manager	Doyle St	DECC representative contacted Austar to discuss an odour complaint left via DECC Environment Line on 13/4/2009. Rotten Egg type odour had been detected around Doyle Street near the CHPP for the past few weeks particularly around late afternoon.	Austar Tech Services Manager and CHPP Manager investigated the complaint and it was discovered that the odour was a result of a blocked sewage pipe (Hunter Water) which subsequently was fixed. A letter report was sent to DECC on 21st April 2009 outlining actions and results of investigation. Nil correspondence since.
16	7/06/2009	Called Environmental Line	Sandy Creek Road	The complaint was made on Sunday 7 <sup>th</sup> June at 7:50am. The complainant stated that the noise of the exhaust fans were "terrible" over the last 3 days. The noise had been constant for 24 hours per day over the 3 days. The noise appears to be coming from Shaft 3 at Austar.	Austar Tech Services Manager and contract environmental officer investigated the complaint. The data for the Cessnock weather monitoring station was downloaded for the reported period. It indicated cool temperatures. A temperature inversion along with unfavourable winds likely increased the



Complaint Number	Date	Type of Contact	Location	Detail	Action
					noise. The Austar Tech Services Manager contacted staff to determine if any activities at the shaft caused the increased noise. The complainant called on Tuesday 9 June to discuss the complaint and was satisfied with the results of the investigation.
17	18/06/2009	Called reception	Nash Lane	The complainant called reception and left a message saying there was an increase of noise from the Vent Shaft 3 location	The Environmental Coordinator measured noise levels at the vent shaft 3 regular monitoring location at 15:40. The Environmental Coordinator contacted the complainant at 19 June 2009. The complainant indicated that he thought the noise levels were getting louder over the past 2 months and is oscillating/vibrating in nature. The Austar Environmental Coordinator spoke to Austar maintenance who mentioned that a regulator on a previous compressor was broken which caused the compressor to "run up, then run down" continuously - this may be the oscillating noise the complainant heard. Austar arranged an electric powered hire compressor to be commissioned in July. The Environmental Coordinator left message for the complainant telling of faulty compressor, and future replacement with electric compressor, asking the complainant to call back if he'd like to.