



ANGAS ZINC MINE

QUARTERLY ENVIRONMENTAL REPORT

Quarter 2: April - June 2008



30 July 2008

Executive Summary

This Quarterly Environmental Report (QER) presents the results of the monitoring program between April and June 2008. During this quarter the mine has extended the underground decline to 435m, or a relevant level of 95m below the surface. The Tailings Storage Facility (TSF) is almost complete with final testing taking place and Mill start up planned for the 14th of July. All mine areas are complete or nearing completion. The mine haul road for concentrate was graded and compacted at the end of June ready for bitumen.

Weather station data for April and May were not reliable as a result of ongoing electronic problems; the weather station was sent for repairs on the 10th of June and received back on the 13th. Weather station data was complete and accurate for the noise monitoring period.

Water Quality:

During the second quarter of 2008, 49 of the 240 tests, were greater than the MARP surface water criteria, of which two were greater than the EPA-SA freshwater guidelines for phosphate and turbidity.

Groundwater monitoring showed four from 382 tests, were greater than the MARP criteria; three at bore LG2 and one at bore RG7. The LG2 bore location is within the mineralised area above the ore body and is naturally high and RG7 is located on a hydrodynamic plane above the mine.

Air Quality:

Dust monitoring during this quarter found:

- Total Insoluble Matter – two from 35 were above the MARP criteria of two standard deviations above the background average.
- Lead concentration in depositional dust was not greater than the MARP Criteria of 96mg/kg or the NEPM for residential soil of 300mg/kg.
- Total Suspended Particles – one test from 24 was greater than WHO guidelines.
- Laboratory results from particulate lead samples were not delivered in time for this report

Noise:

Noise levels from AZM were above the MARP criteria on a number of occasions, however they were not greater than daily background levels experienced at each location. Bird noise accounted for many of the elevated noise level values. Wind continues to play an important role in elevated noise levels.

Blasting:

There were 134 monitored blasts during this Quarter, one of which was not within the MARP Overpressure dB (L) blasting criteria for noise, the level recorded was associated with wind speed in excess of 76km/h. Six Blasts were not recorded due to equipment failure as report to PIRSA. There were no noise complaints relating to the missed blasts.

Community Complaints:

Two complaints were made in the reporting period, one regarding blasting, and one regarding dragout. Both were responded to within 24 hours.

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1 Background

This is the second Quarterly Environmental Report (QER) for 2008 and represents the period from April to June 2008. This report was prepared for the Strathalbyn Community Consultation Committee & PIRSA, as required by the mining lease conditions.

The Tailings Storage Facility (TSF) is almost complete with final testing currently under way. Mill start up is planned for the 14th of July. All mine operational areas are complete or nearing completion.

The decline has progressed to 435m (Relevant level 95m below surface) and development has begun at the 120 level, with 25,000t of ore being stockpiled on the Run of Mine (ROM) pad. The mine haul road for concentrate has been graded and compacted, and is awaiting bituminisation.

2 Surface Water Quality

Surface water was sampled at the Bridge, Hogben, Croser and the Ford, the locations are as indicated in Figure 1. 40 samples were taken with the analytical results presented in Table 6 in the Appendix.

There were 49 values above the 2 standard deviations (2SD) criteria of the MARP, and two values (phosphate and turbidity) over EPA-SA freshwater guidelines. There are no correlations between mining activities and the elevated levels found in the river.

- Bridge (control site upstream of mine) - 11 values over MARP criteria.
- Hogben (control site upstream of mine) - 27 values over MARP criteria.
- Croser (a potential mine impact site) - six values over MARP criteria.
- Ford (a potential mine impact site) - five values over MARP criteria.

April's samples at Bridge and Hogben returned test results greater than EPA-SA freshwater guidelines for Phosphorus and Turbidity respectively. Both are control sites upstream of the mine.

The majority of test results greater than MARP criteria in May & June came from the Hogben control site and related to metal values close to the laboratory detection limit. As these results were not seen further up or down stream, and Hogben is upstream of the mine, it is not believed these elevated values are mine related.

Downstream of the mine at Croser and Ford, the EC¹, TDS², T-N³, T-P⁴ and TKN-N⁵ results represented eight values greater than the MARP guidelines.

These results would not be unusual after a hot & dry summer and are not a result of mining activities. It should be noted that the Angas River has not flowed during any of the sampling events during either Q1 or Q2 2008.

1 Electrical conductivity
2 Total Dissolved Solids – fresh water<1500mg/L TDS<brackish water<5000mg/L<saline water
3 Total Nitrogen– too much of which promotes algal blooms
4 Total Phosphorous – too much of which promotes algal blooms
5 Total Kjeldahl Nitrogen – Sum of total organic nitrogen

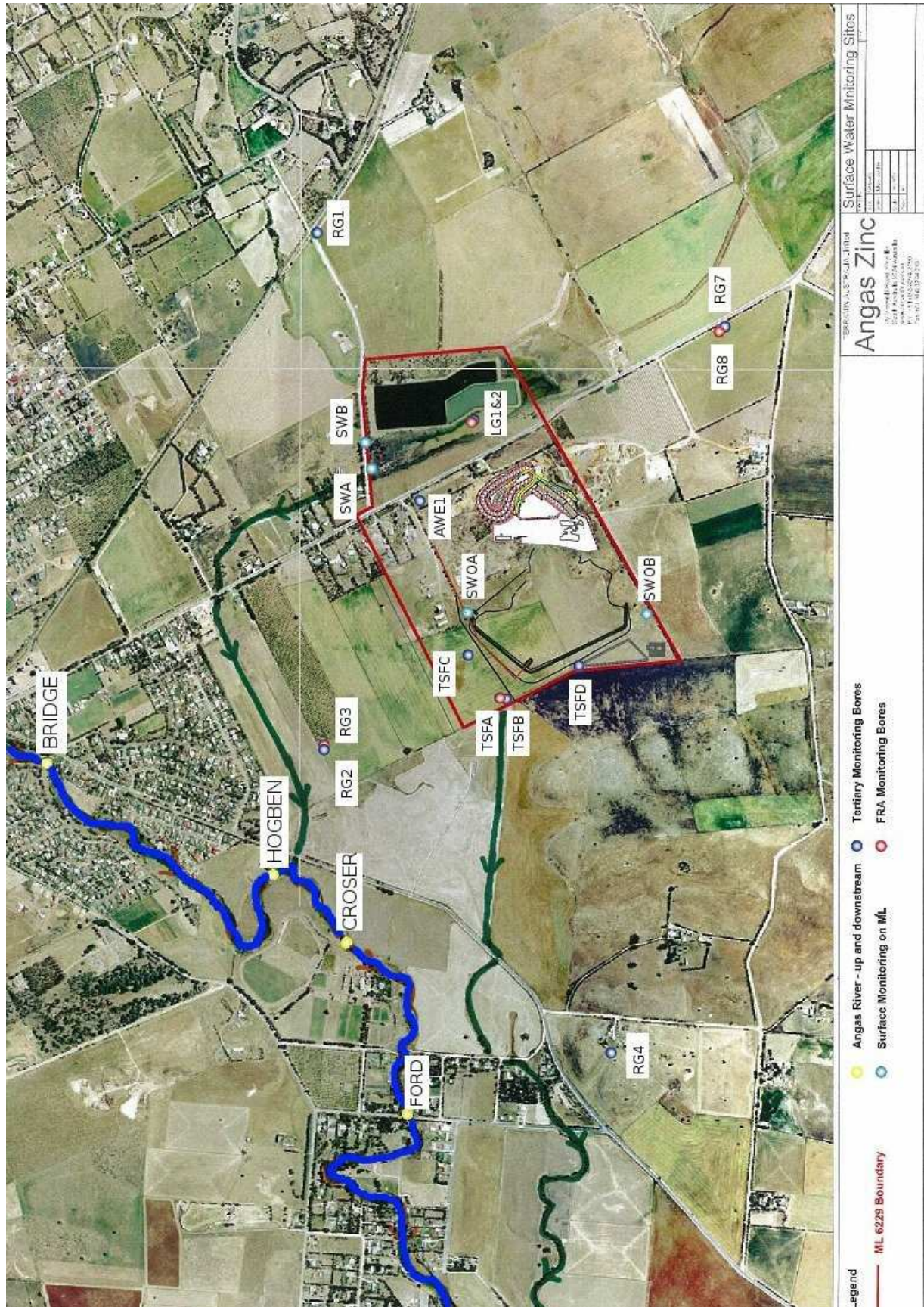


Figure 1: Water Monitoring Locations

3 Groundwater Quality

382 individual tests were conducted on samples taken from the nine groundwater monitoring bores. All test parameters were within MARP 2SD from background criteria, except three results from bore LG2 and one from RG7. LG1 was dry during this quarter due to mine dewatering.

The three elevated results for LG2 were for Cd (Cadmium), recording levels above the 2SD for all months in the reporting period. These results were less than the Cd levels recorded in Q1 2008 at this bore. LG2 is located within the mineralised zone and can be expected to be elevated.

The value greater than MARP criteria for RG7 was for Se (Selenium), and is the first elevated test value for Se that has been recorded. This represents less than 0.5% of the total samples and is therefore within the statistical expectations of the 2SD criteria. It should also be noted that RG7 is located on a hydrodynamic level above the mine.

Individual results are located in Table 7 of the Appendix.

Figure 2 indicates the saline nature of the monitored bores has not changed significantly over the reporting period; the same two distinct electrical conductivity groups were observed.

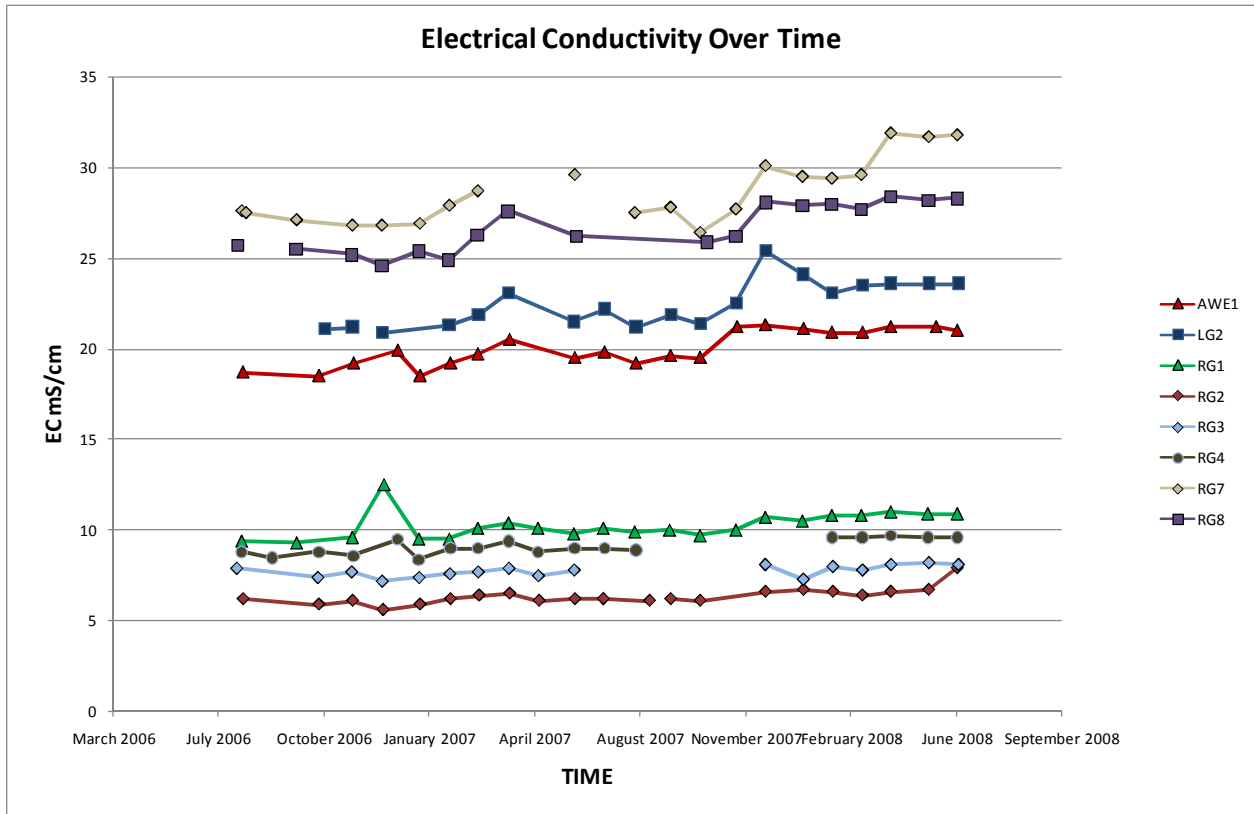


Figure 2: Electrical Conductivity Over Time⁶

Note: data in this graph came from field data sheets; the gaps in data stem from technical issues

Three month moving averages of representative sites; RG1 upstream of mining activities, AWE1 in the mineralised area and RG4 downstream of the mine, and key indicators; sulphate, iron, lead and zinc, are shown in Figure 3.

No increasing (or decreasing) trends were observed over the period.

⁶ The elevated readings for RG7 during Q2 2008 are believed to be from a loose standpipe knocking material into the bore while monitoring. This has been rectified.

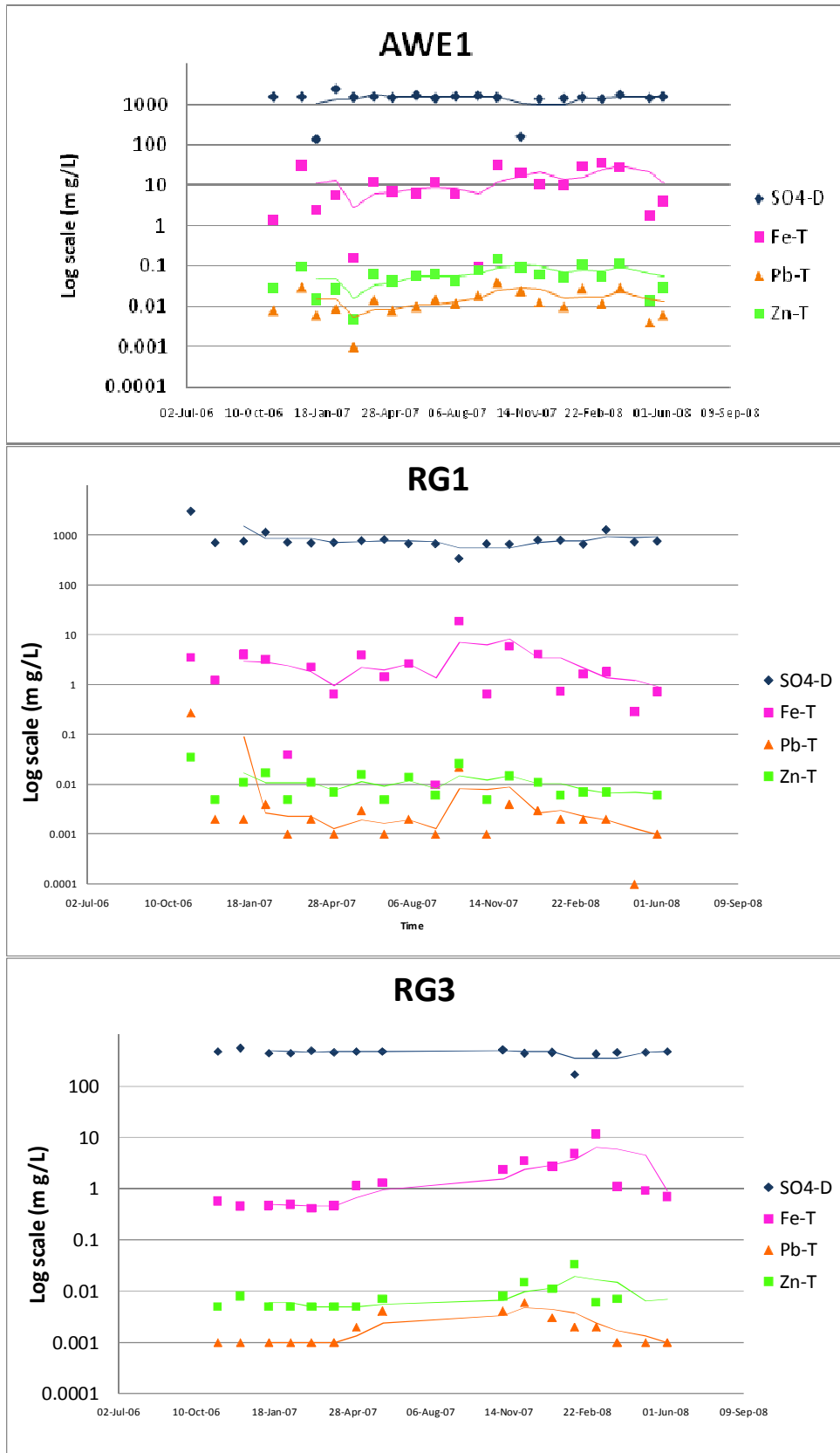


Figure 3: AWE1, RG1 & RG3 Three Month Moving Averages of Key Indicator Elements

3.1 Groundwater Levels

Groundwater levels have been monitored over time to evaluate drawdown and, apart from LG2, have not altered since the last reporting period as seen in Figure 4.

Three water level groupings were identified in previous reports:

- Deep (between 27 and 29m below the surface) at site RG4.
- Intermediate, between 7 and 10m below the surface at all other sites; and
- Shallow, less than 1m below ground level around the ponds (LG2)

Due to mine de-watering activities the depth of LG2 has decreased. This further decrease in depth now puts LG2 in the intermediate range.

The range for this group will be extended for the next report to be between 7 and 11m below the surface.

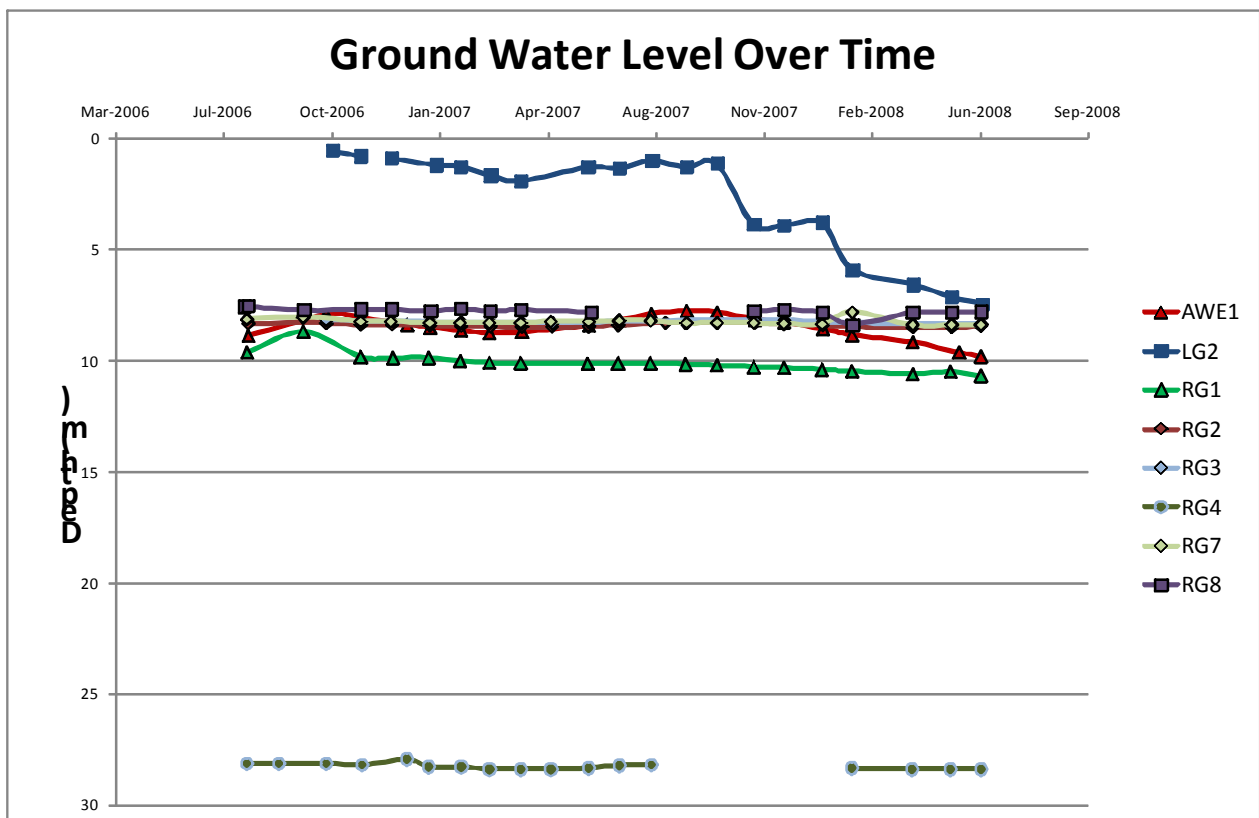


Figure 4: Groundwater Level Over Time

4 Noise Monitoring

Continuous attended noise monitoring took place from 18-23 June at six locations over a continuous 24 hour period. Noise levels from AZM only went over MARP requirements on a few occasions. Noise levels were not greater than daily background levels experienced at each of the six monitoring locations.

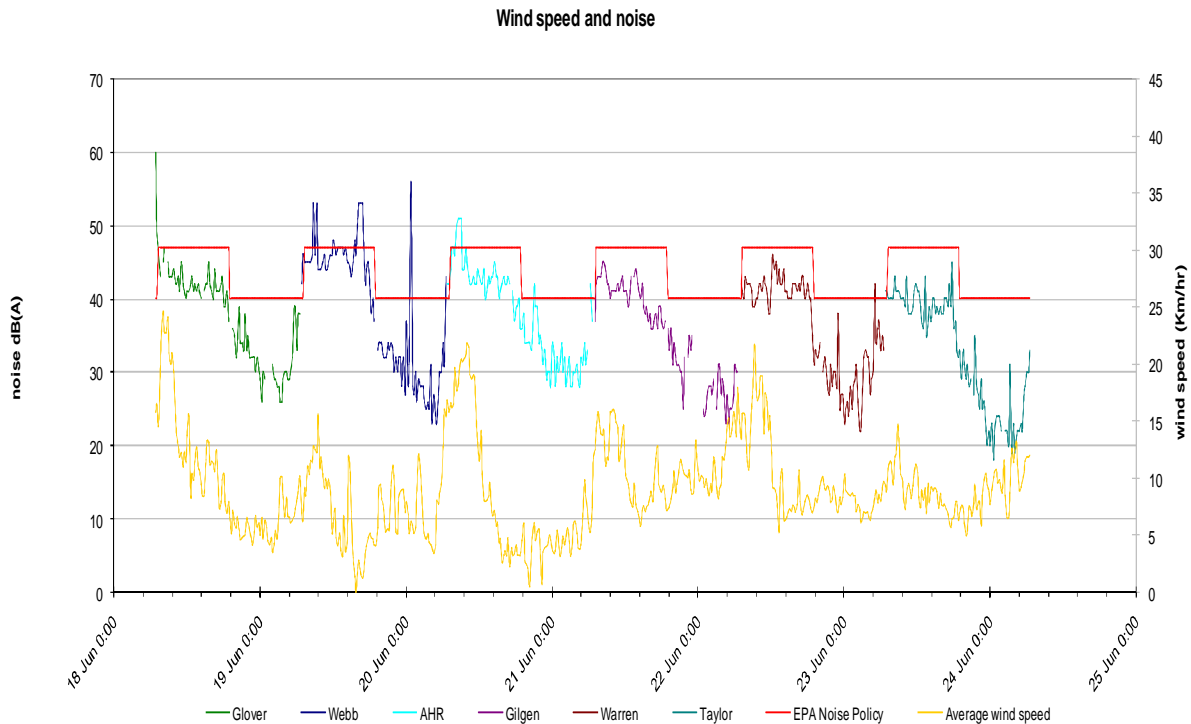


Figure 5: Wind Speed and Noise Monitoring

* Note- Blank periods in the data represent periods of rain or wind exceeding 5.0m/s during the attended monitoring preventing the accurate detection of mine noise.

The elevated values shown in Figure 5 relate to –

1. Bird noises at Webb occurring once at 8.45am,
2. Rock breaking activities close to the ETSA substation on site can attribute to the elevated values noted at Webb during the afternoon between 3.30pm-5.00pm
3. The major peak seen at Webb was due to a cough by the person conducting the monitoring.

4. A combination of mine, wind, animal and road noise contributed to minor elevated values at AHR .

Continued efforts are being made to identify and reduce noise generation activities across the operation.

As indicated in Figure 5, wind speed continues to show a correlation with recorded noise levels. While this does not discount the impact of other factors on noise levels, it does show the impact of wind speed on recorded noise levels.

Continued considerations being made to gain a better understanding of noise sources include:

- Liaison with the EPA & PIRSA to identify further steps that can be taken to monitor and report actual mine noise.
- Recommend relocating monitoring site away from the aviary.

5 Dust Monitoring

Terramin uses two High Volume Samplers (HVS), to track Total Suspended Particulates (TSP) levels and particulate lead located between the mine and Strathalbyn. Eleven Dust Deposition Gauges (DDG) have been placed strategically around the property to measure dust and lead deposition.

The results of particulate dust monitoring during this reporting period are presented in Table 1. Particulate lead levels are analysed in three monthly batches and, due to a delay in obtaining results from the laboratory, no results are reported. All data reported to date however, suggests that dust lead levels should remain below the detection limit ($0.01\mu\text{g}/\text{m}^3$) of the analytical methods used.

Table 1: Results of HVS Monitoring

DATE	Sec Gate		Lot 8	
	TSP ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	TSP ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)
6/04/2008	48.7		32.7	
12/04/2008	63.8		39.9	
18/04/2008	144.0		94.3	
25/04/2008	50.8		77.8	
1/05/2008	43.9		28.7	
6/05/2008	29.7		34.4	
12/05/2008	53.2		74.9	
18/05/2008	36.0		37.8	
24/05/2008	21.5		18.7	
30/05/2008	29.8		26.8	
5/06/2008	27.3		25.9	
11/06/2008	22.6		18.8	

Note: Values highlighted are higher than the World Health Organisation health guideline value of $\geq 120\mu\text{g}/\text{m}^3$.

Dust levels during this reporting period were greater than the WHO TSP guideline of $120\mu\text{g}/\text{m}^3$ on only one out of 24 samples, representing <5% of all samples collected as compared to 50% for the previous quarter.

Currently, the Exact Mining Services water truck is used during operating hours to minimise dust on site, however the sealing of access roads in Quarter 3 should significantly reduce particulate dust

5.1 Dust Deposition

The laboratory results for dust deposition gauges during this reporting period are presented in table 8 in the appendix.

Depositional lead levels were all below the NEPM (residential soil) guidelines of 300mg/kg⁷ as noted in Figure 6.

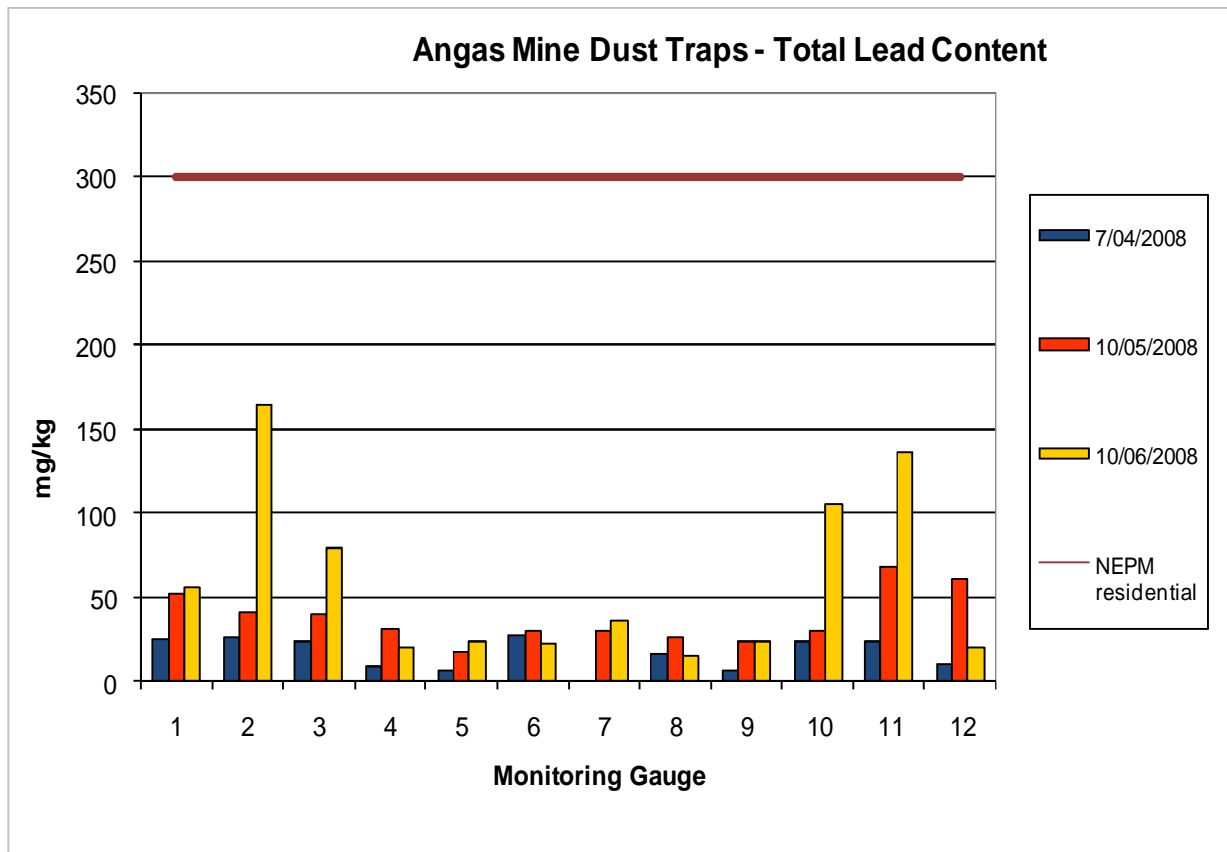


Figure 6: Total Lead deposition Q2 2008

⁷ NEPM Standard – Health Investigation Level

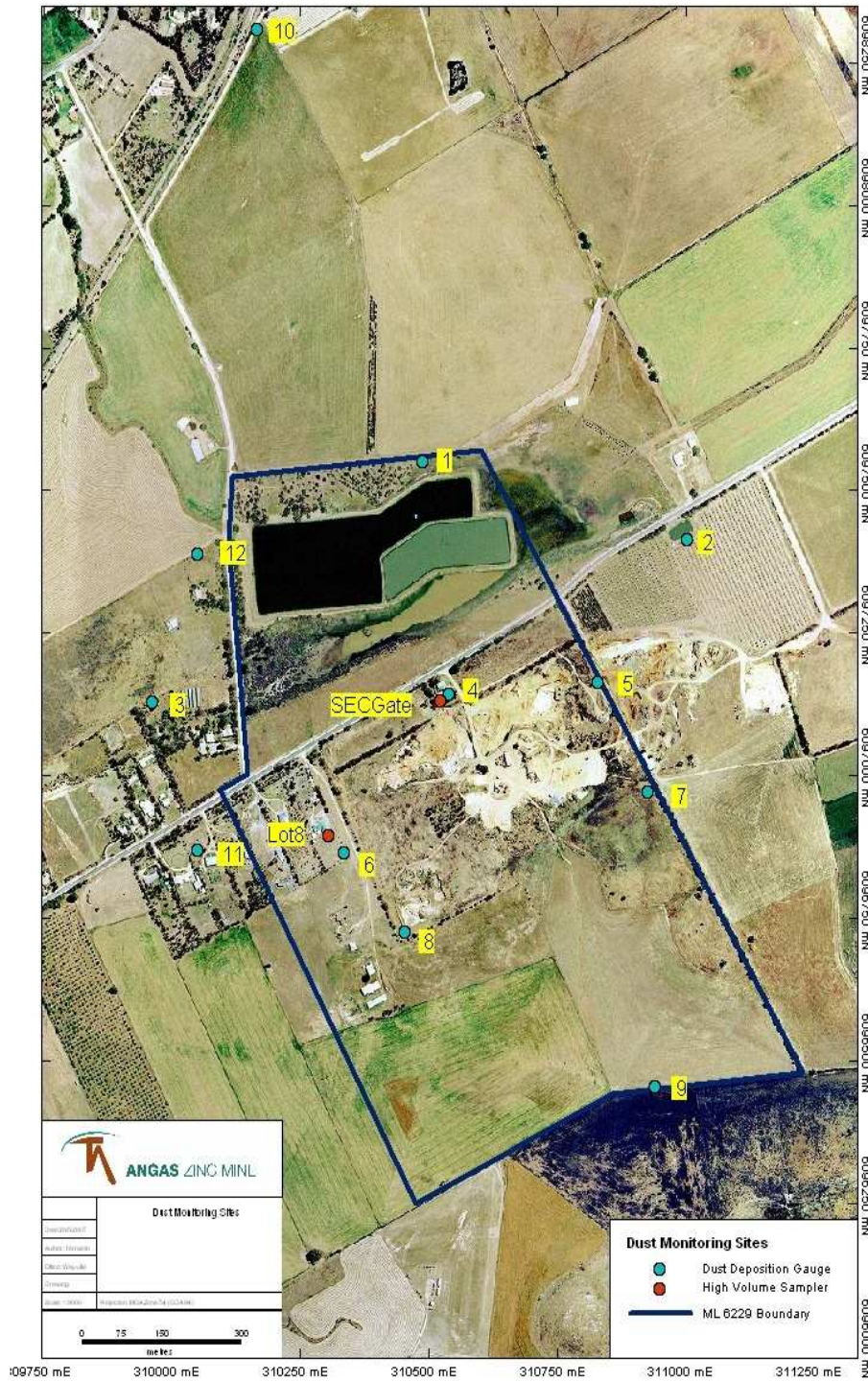


Figure 7: Dust Deposition Gauge and High Volume Sampler Locations

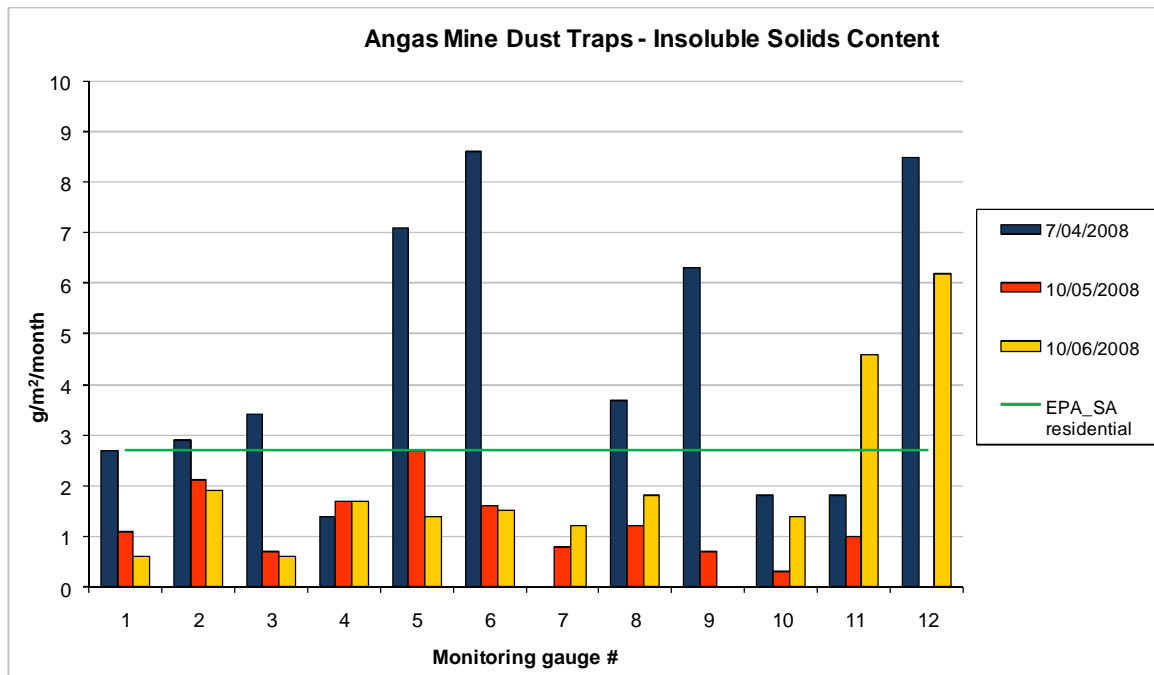


Figure 8: Total insoluble Matter deposition around AZM lease
 Note: The green line represents the EPA standard for residential areas of 2.7g/m²/month. 2SD = 8.4g/m²/month & baseline = 2.8g/m²/month

There were nine values greater than the EPA residential guidelines during this reporting period as indicated in Figure 8. Seven of these results occurred during the record breaking heat wave in March (dust traps were collected on 7th April).

Only two sites were above the 2SD level in the traps collected on 10 June; DDG 11 and 12.

Both DDG 11 and 12 are outside of the mining lease boundary, indicating the high dust levels are unlikely to be mine related.

- AZM have reviewed procedures to reduce dust generation on site and have communicated the necessity for reduced vehicular speeds to their employees and contractors.

6 Blast Monitoring

134 blasts were recorded during the reporting period. One blast was greater than the MARP noise criteria on 25/6/08 when the wind was gusting up to 76km/h. The blast noise was not different to background noise.

No charge weights were greater than 250kg.

Table 2: Vibration Monitoring

Peak Particle Velocity (PPV) mm/sec			
PPV value	0-5 PPV	5-10 PPV	10+ PPV
Number of blasts recorded	134	0	0
% in Compliance	100%	0	0

Table 3: Overpressure Monitoring

Overpressure dB(L)		
Overpressure value	<115	>=115
Number of blasts recorded	133	1
Compliance value	99%	>1%

19 blasts were recorded in June using the roving monitor as the fixed monitor had been returned to the manufacturer to be calibrated.

Six blast events were missed in June due to equipment malfunction resulting from battery issues. No blast related complaints were recorded during the period of equipment malfunction.

Corrective steps have been taken to eliminate the re-occurrence of subsequent battery failure, through the purchase of additional, longer lasting batteries.

7 Drag out

Drag out has occurred after rainfall events and as a result of dust suppression activities. A road sweeper continues to be used as needed.

The main site entrance was moved to its current location on Monday the 5th of May as instructed by PIRSA.

One complaint was made about dragout in the reporting period, although the drag out rate improved dramatically after the 5th of May. For the reporting period a

- drag out rating of 1 occurred 32 times
- drag out rating of 2 occurred 12 times
- drag out rating of 3 occurred once

Drag out rating descriptions are noted in table 4 below.

Table 4: Drag out rating descriptions

Rating Number	Rating Type	Description
0	None	No visible dragout from mine traffic - Normal road conditions
1	Light	Small amount of dragout, just visible - light haze covering the road
2	Moderate	Dragout easily visible
3	Heavy	Majority of road covered, clumps of mud visible
4	Excessive	Dragout covers road completely

8 Recycling

Pursuant to its recycling commitment, AZM have recycled as much waste as possible in order to minimise its environmental impact. The following items, as seen in Table 5, have been recycled by AZM this quarter.

Minimal material was taken off site in May, June can be considered representative of both May and June combined.

Table 5: AZM Recycling from April- June

Material	April		May		June	
	Units/ Rebate	Tonnes/ m ³	Units/ Rebate	Tonnes/ m ³	Units/ Rebate	Tonnes/ m ³
Bottles & Cans	729/ \$36.45	0.06t	0	0	1668/ \$83.40	
Soft Plastic		0.12t	0	0		0.36t
Hard Plastic and Building Material		0.15t	0	0		13.1t
Electrical		0.068t	0	0	142.8	
Hydrocarbons		1m ³				0.9m ³
Paper/ Cardboard		21m ³		12m ³		12m ³
Scrap Metal				3.18t		

AZM contractor Abesque removed 4.92t of waste timber of which 90% was recycled, 300kg of other waste was recycled. This large decrease in recycling from the last quarter represents the fact that construction is nearing completion, or sections of the plant are in the commissioning stages and therefore less construction waste is being generated.

Wood is donated to thrifty link hardware where it is sold as kindling, with all proceeds going to the local CFS.

Aluminium cans and bottle rebate is donated to the Strathalbyn scouts.

9 Flora and Fauna

Fauna

A flock Whistling Kites (*Haliastur sphenurus*), a medium sized bird of prey was observed flying over the TSF, it was noted that the birds did not land on the black plastic, instead roosting on the white sand bags and only for a short period of time.

25 fauna boxes will be made by the Fleurieu Peninsula High School; the school will also be installing them and monitoring the boxes on a monthly basis. Angas Zinc will be provided with a quarterly summary of fauna inhabiting the boxes.

Numerous rabbits have been seen on the property and plans are being made for continued feral animal control in summer months.

Flora

Saltbush seed was collected - *atriplex semibacata* and *enchyaena tomentose*.

Vegetation inside the boxcut is showing improved growth after recent rain with seedlings being small but growing well. Results from earlier hydro-seeding are also indicating promising growth.

The irrigated Saltbush near the public viewing area is struggling to grow in the compacted nutrient deficient clay, however light showers have increased foliage slightly. To improve growth these plants are now irrigated, if poor growth continues the application of a fertiliser will be considered.

Vegetation on the noise bunds is growing well, with the light rains and dew increasing the growth rate of the saltbush.

Tubestock planted west of the TSF were damaged when vehicles drove over them; approximately 12 have died.

550 Trees were planted along the southern side of the TSF; and on the eastern side of two Garwood paddocks in June.

The top paddock at Lot 9 will be ripped and tube stock will be planted this year instead of 2009.

Seed was delivered to Greening Australia for germination to tube stock, ready for planting in 2009.

Mulching of the TSF began at the end of June and is progressing well.

10 Strathalbyn Community Consultation Committee

Attended SCCC meeting 7pm on 22/5/08. Sue-Ellen presented QER.

10.1 Complaints Register

Date	Time	Complaint	Response	Date complaint responded to	TZN Respondent
26-May-08		Blasting Complaint	Blasting was attributed to strip blasting which recorded under 1mm/second, well under the blasting criteria. Complainant and Terramin have discussed situation. The complainant and Terramin are in constant communication to resolve issues as they arise.	26-May-08	Sue-Ellen and Jol Jardine
18-Jun-08		Dragout Complaint	Dragout onto Callington Road was worse then the last time complainant drove past. Explained construction still occurring and road will be bituminised in the next 2-4 weeks which will see the entrance change and the issue eliminated. The complaine was satisfied with the answer.	18-Jun-08	Mark Weidenbach & Graeme Noll

10.2 Visitors/site tours

April

- 286 people visited the site in the last quarter.
- 4 groups toured the site
 - 3 x Tours of Strathalbyn
 - Petaluma Wines
 - Grape Growers Association
 - Teatree Valley Probus Club

May

- Public viewing area temporarily closed.
- 5 groups toured the site
 - Visitors from Algeria
 - Neukirch Congregation
 - Eastwood Walking group
 - SCCC members prior to SCCC meeting
 - Tours of Strathalbyn

June

- Public viewing area temporarily closed.
- 4 groups toured the site
 - Stirling probus club
 - Cynthia's bus tour (Banskia tours)

- Milang Community Centre
- Cynthia's bus tour

10.3 Sponsorship

April

- \$500 – CLASS Bush dance at the Belvedere Hall
- \$7500 – Strathalbyn football club

May

- Membership application 2008/2009 and business donation to “Christmas in the Park 2008” \$575.00

11.4 Other community matters

May

- A donation of \$1000 was made to the Strathalbyn Archery Club to assist with earthmoving costs associated with the redevelopment of their shooting range.

June

- Donation for service to Fleurieu Peninsula High School (\$500 dollars this year for 25 Fauna boxes, plus installation). New environmental officer will give a presentation and a small workshop on native animal handling.

Compiled by.



Appendix

Sample class	Units	Av+2*SD	EPA guideline Freshwater	April				May				June			
				BRIDGE	CROSER	FORD	HOGBEN	BRIDGE	CROSER	FORD	HOGBEN	BRIDGE	CROSER	FORD	HOGBEN
PH-L	pH	6.50	9	7.83	7.84	8.02	7.8	7.76	7.89	7.99	8.04	7.54	7.48	7.74	7.68
EC-L	µS/cm	5659	6916	3150	6450	5450	6300	1610	5870	6160	6080	3600	4000	3210	4700
TDS-180	mg/L	3381	4132	1860	3660	3130	3560	960	3290	3820	3650	2140	2240	1950	2690
Turbidity	NTU	4.2	20	4.5	2.2	1.8	26	1.4	1.6	2	32.4	6.7	1.8	1.4	1
SO4-D	mg/L	524.3	1000	110	204	153	147	83	195	196	186	204	153	112	165
Fe-T	mg/L	0.6	1	0.57	0.21	0.07	0.18	0.44	0.24	0.14	17	0.4	0.2	0.13	9.44
As-T	mg/L	0.0035	0.05	0.004	0.002	<0.001	0.003	0.003	0.001	0.002	0.007	<0.001	<0.001	0.001	0.004
Cd-T	mg/L	0.0001	0.002	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	0.0001
Cr-T	mg/L	0.001	nc	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	<0.001	<0.001	0.007
Cu-T	mg/L	0.004	0.01	<0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.013	0.002	0.001	0.001	0.009
Pb-T	mg/L	0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.01	<0.001	<0.001	<0.001	0.008
Ni-T	mg/L	0.002	0.15	0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001
Se-T	mg/L	0.010	0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ag-T	mg/L	0.001	0.0001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tl-T	mg/L	0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.001	0.003	<0.001	<0.001	<0.001	<0.001
Zn-T	mg/L	0.021	0.05	0.006	0.006	0.005	0.018	0.014	0.011	0.01	0.129	0.014	0.011	0.007	0.103
NOX-N	mg/L	0.593	0.5	0.017	0.179	0.01	0.034	<0.010	0.173	<0.010	0.323				
TKN-N	mg/L	1.122	nc	1.8	1.5	0.6	1.4	1.8	0.7	0.9	3.4				
N-T	mg/L	1.420	5	1.8	1.6	0.7	1.5	1.8	0.8	0.9	3.7	0.8	2.2	0.4	1.4
P-T	mg/L	0.192	0.5	1.11	0.07	<0.01	0.25	1.98	0.04	<0.02	0.62	0.1	0.12	0.05	0.12

Table 6: Surface water quality - Angas River Water Sampling results Q2-2008

Note: Values in red were greater than the EPA freshwater guidelines; Cells highlighted in yellow show values that are more than 2 standard deviations from the baseline mean (2SD).

		2.SD	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	JUNE	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL			
			AWE1	LG2	RG1	RG2	RG3	RG4	RG7	RG8	RG9	RG10	AWE1	LG2	RG1	RG2	RG3	RG4	RG7	RG8	RG9	RG10	AWE1	LG2	RG1	RG2	RG3	RG7	RG8	RG10							
pH-L	pH Unit	8.1456299												7.62																							
EC-L	µS/cm	53670.35	22900		11800			10700						22600	25500	12100	7490	9240	10500	35300	30500	12100	<1			22900	26800	12400	7210	8840	34400	31100				2	
TDS-c	µS/cm	24268.656		24500		6810	30500		3430	30800	30600	<1																									
TDS-180	mg/L	24843.076																																			
TURB-L	NTU	1808.512																																			
SO4-D	mg/L	3329.815	1570	1910	766	338	475	558	2330	2370	2240	<1		1450	1940	738	342	458	511	22400	2170	743	<1		1750	2240	1290	298	453	1870	1910	<1					
Fe-T	mg/L	69.017926	4.11	100	0.73	13.6	0.69	0.18	26.6	10.1	10.3	<0.01		1.74	79.4	0.29	10.5	0.92	0.24	14	13.5	0.53	<0.05		28	54.6	1.81	14.5	1.09	24.4	18.6	<0.01					
As-T	mg/L	0.0380347	0.006	0.012	0.001	0.002	0.001	<0.001	0.038	<0.001	<0.001	<0.001		0.005	0.01	0.001	0.003	<0.001	0.002	0.018	0.002	<0.001	<0.001		0.015	0.011	0.002	0.004	0.002	0.022	0.007	<0.001					
Cd-T	mg/L	0.004	0.0001	0.005	0.0002	<0.0001	<0.0001	0.0002	<0.0001	0.0002	0.0002	<0.0001		<0.0001	0.0049	0.0002	<0.0001	<0.0001	0.0001	0.0001	0.0003	0.0002	<0.0001		0.0002	0.0054	0.0003	0.0002	<0.0001	0.0002	0.0004	0.0001					
Cr-T	mg/L	0.1341352	0.01	0.097	<0.001	0.009	<0.001	<0.001	0.006	<0.001	<0.001	<0.001		0.002	0.099	<0.001	0.012	<0.001	<0.001	0.009	0.005	<0.001	<0.001		0.044	0.074	0.002	0.018	0.001	0.008	0.005	<0.001					
Cu-T	mg/L	0.1172447	0.008	0.051	0.002	0.009	0.001	0.001	0.011	0.012	0.011	<0.001		0.005	0.047	0.002	0.007	0.002	0.002	0.013	0.016	0.002	<0.001		0.024	0.036	0.002	0.01	0.002	0.012	0.02	<0.001					
Pb-T	mg/L	0.2622555	0.006	0.048	0.001	0.017	<0.001	<0.001	0.013	0.006	0.006	<0.001		0.004	0.038	<0.001	0.011	<0.001	0.001	0.015	0.009	<0.001	<0.001		0.029	0.029	0.002	0.014	<0.001	0.014	0.012	<0.001					
Ni-T	mg/L	0.0514877	0.002	0.036	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	0.046	<0.001	0.005	<0.001	<0.001	0.007	0.004	<0.001	<0.001		0.01	0.037	0.002	0.008	<0.001	0.008	0.007	<0.001					
Se-T	mg/L	0.0879259	0.021	<0.010	0.036	<0.010	<0.010	<0.010	0.094	<0.010	<0.010	<0.010		0.018	<0.010	0.029	<0.010	<0.010	<0.010	0.012	<0.010	0.026	<0.010		0.016	0.015	0.032	<0.010	<0.010	0.019	0.014	<0.010					
Ag-T	mg/L	0.1536518	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010		0.016	0.015	<0.010	<0.010	<0.010	0.022	0.023	<0.010					
TI-T	mg/L	0.003	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Zn-T	mg/L	1.7036051	0.029		0.006			<0.005						0.014												0.12	0.426	0.007	0.021	0.007	0.017	0.013	<0.005				
Cl	mg/L	14488.258		0.602		0.019	<0.005		0.015	0.011	0.006	<0.005																									

Table 7: Groundwater Quality – monitoring bores sampling results Q2 – 2008

Note: Values in red were greater than the EPA freshwater guidelines; Cells highlighted in yellow show values that are more than 2SD from the baseline mean. The 5 elevated test values represent 2% of the total analytes which is completely within the statistical expectations of 2SD.

Analyte Units LOR SITE	Ash Content (mg)			Combustible Matter (mg)			Total Soluble Matter (mg)			Total Insoluble Matter (mg)			Total Solids (mg)			Lead		
	April	May	June	April	May	June	April	May	June	April	May	June	April	May	June	April	May	June
	1	46.5	17.1	8.2	9	6.4	2.8	48.3	27.3	34.5	55.5	23.5	11	104	50.8	45.5	24.2	52.5
2	60.2	19.1	25.9	0.6	24.9	6.7	63.7	56.8	71.1	60.8	44	32.6	124	101	104	26.2	40.8	164
3	68.2	13.9	4.9	1.2	0.7	4.9	51	21.7	12.8	69.4	14.6	9.8	120	36.3	22.6	22.9	40	79.6
4	29.6	32	24.7	0.1	3	3.7	102	50.9	27.5	29.7	35	28.4	131	85.9	55.9	8.46	30.6	20
5	116	50.2	20.7	29.9	4.7	2.7	76.7	50	53.1	146	54.9	23.4	222	105	76.5	6.37	17.8	23
6	143	26.2	22.3	35.1	7.1	2.7	74	45.4	32.4	178	33.3	25	252	78.7	57.4	27.4	29.2	22
7		13.3	19.1		4.2	1.8		67.4	42.2		17.5	20.9		84.9	63.1		29.2	35.8
8	50.5	17.3	27.7	26.3	6.8	2.3	172	72.4	35.2	76.8	24.1	30	249	96.5	65.2	16.4	25.5	15.4
9	104	13.9	0.5	25.3	0.5	1.2	80.5	85.8	54.6	130	14.4	1.7	210	100	56.3	5.87	23.2	23.1
10	19.1	4.9	16	17.3	1.1	8.7	44.5	45.8	23.2	36.4	6	24.7	80.9	51.8	47.9	23.6	30.3	105
11	31	20	31.8	6.7	<0.1	47.7	38.4	57.7	49.6	37.7	20	79.5	76.1	77.7	129	24.1	68.2	136
12	85.3	0.8	84.7	90.4	0.7	20.7	101	68.5	32.8	176	1.5	105	277	70	138	10.2	60.1	19.8

Table 8: Air quality - Results from Dust Deposition Gauges

Note: Values highlighted are at or above 2 Standard Deviations from baseline average.

Cells highlighted in yellow were greater than the MARP criteria of within 2 standard deviations from the background mean; shown in square brackets.