

MINUTES OF MEETING
STRATHALBYN COMMUNITY CONSULTATIVE COMMITTEE

Thursday 19 May 2011

@ 7.00 pm

Senior Citizens Hall, 6 Parker Street, Strathalbyn

PRESENT:

Charles Irwin - Chair	Julia Currie	Susan Jettner	Fred Carrangis
Rhonda McCarthy	Malcolm Twartz	Anne Woolford	Mark Dale

Gallery 5

PIRSA:

Nicole Edkins	Henry Andryszczak	Merri Tohill – Sec
---------------	-------------------	--------------------

TERRAMIN:

Anya Hart	Robert Howie	Stephen Marlow
-----------	--------------	----------------

EPA:

See Apologies

GUESTS:

Neville Styan, General Manager Infrastructure and Planning, Alexandrina Council for Graham Webster.
 Darryl Ayris, Terramin Investor Relations.

APOLOGIES:

Barry Davis, Karen Hawke, Mike Farrier, Adrian Pederick MP, Rob Lyons and Glenn Sorenson (EPA)

Meeting commenced at 7 pm

1.	<p>WELCOME AND APOLOGIES</p> <p>Charles Irwin welcomed all. Apologies were accepted, as outlined above.</p>
2.	<p>REVIEW OF MINUTES OF LAST MEETING</p> <p>Corrections to 3 March 2011 minutes: Other Business – Ron should be Don.</p> <p>3 March minutes, amended as above accepted as true and correct record. NB minutes are available on the PIRSA website.</p>
3.	<p>PIRSA: COMPLIANCE OVERVIEW – Nicole Edkins</p> <p>No compliance issues to report. Site was visited this week.</p> <p>Comments from the Chair –</p> <p>Mining & Rehabilitation Compliance Report 2010 (MARCR) circulated, noted that 11/46 environmental criteria non-compliant, so there are other things to look at besides water.</p> <p>Henry Andryszczak is finishing with PIRSA at end of May 2011. Henry thanked the group and commended them for their professional approach and interest, their efforts have been appreciated. Nicole will act in Henry's place.</p>

<p>4.</p>	<p>TERRAMIN: REVIEW OF MINING OPERATION</p> <p>Please see Terramin Quarterly Report #18 (January to March 2011) by Anya Hart, available in full on the PIRSA website www.pir.sa.gov.au/minerals/sa_mines/approved_mines/angas under Wider Community Engagement and also emailed to all members a few days prior to the meeting.</p> <p>Key Issues</p> <ul style="list-style-type: none"> • Water treatment • Paste backfill • Noise monitoring (June) • Newsletter (due out at end of May 2011) • On site exploration <p>Activity report</p> <ul style="list-style-type: none"> • Over 8,300 m underground decline • 91,595 tonnes of ore processed • Rabbit control monitoring • Noise monitoring – results and up date on review of model in detail below • Dust and air quality – detail below • TSF wall revegetation – more detail following • Environmental and Community coverage – Anya leaving in 4-6 weeks • 11 community complaints received – amended figure from original report – see circulated amended schedule. <p>1. Noise Monitoring</p> <p>New methodology trialled using 2 existing monitors (Western and Eastern), both monitored at 15 minute intervals. Western showed clear compliance and correlation with wind speed. Eastern shows over 40dBA TZN internal target at night; plant “essentially responsible” for that with some influence of high wind peaks.</p> <p>Western monitor tracks more closely with wind speed, 7 complaints (of current 11, and 5 of last quarter) have been from western side and from the same resident. Terramin have directly spoken to this resident and received no complaints of late.</p> <p><u>Review of the model</u></p> <p>Have changed mill gearbox and using noise blanket and have completed additional noise bund adjacent entrance. AECOM has taken additional readings at western side of plant to up date model and validate readings.</p> <p>Rural Industry limits are applicable and tonal noise is not the dominant characteristic at the residential location (site of complaints) so no penalty for tonal impact is applicable. Noise levels at all residential locations are well below criteria as per EPA. Note 40/47 dBA is internal target and Terramin will report on this but compliance is 50/57 dBA.</p> <p><u>Noise complaints</u></p> <p>Seven – last one in February and none this quarter. Have visited complainant (neighbour) and explained situation and sought feedback. Mentioned additional bunding and blanket (now completed). Measured level at neighbours to verify model. This is all in AECOM report, well explained. This report will be circulated to the group and AECOM will be available to answer any questions.</p> <p>Action: Terramin (Anya) to circulate AECOM report on review of noise model.</p> <p>2. Dust Monitoring</p> <p>High Volume Samplers – well below MARP criteria for both solid particles and lead.</p> <p>Dust Gauges- within MARP criteria. Seven results above EPA Lead reporting limits, related to wind conditions, can track why this is so. One result over at Gauge 3, need to monitor trend as near dirt road.</p>
-----------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Next steps – Glenn (with Peter Riley) will look at:-

- Other ways to characterise dust, related to where it is coming from it is difficult to characterise
- Whether the reporting limit is appropriate
- Make contact with other operations to see what they do

Questions:

MARP mentions that should be monitoring PM10 (dust particle size related to health)?

Neither Terramin nor PIRSA see PM10 as an issue. When MARP is reviewed, Terramin will hire equipment to conclusively determine whether this is an issue. Will include Rob in discussion to see if it needs to be addressed.

Monitoring lead levels in staff?

All staff tested for lead every 6 months and levels are all low, “magnitudes” below any level of concern. This provides good baseline information.

3. Revegetation on TSF wall

Have used rye and native grass mix. Rural Solutions SA have inspected and are happy with coverage, providing good erosion control as long as control weeds.

4. Community/ Environment feedback

11 community incidents for 1st quarter include:-

- Late stope firings
- Blasting SMS not received
- Rabbit management
- Seven were mine related noise
- One internal environmental incident reported i.e. pool of RO water could be viewed from the viewing platform
- Noise complaints included concerns about blasting, so monitoring occurred on the properties near to the house, so now they are less concerned about blasting. Note that this does depend on individual levels of tolerance and sensitivity.

Other key monitoring parameters:-

- No ground or surface water quality issues
- 3 sponsorships/donations in 1st quarter
- Turtle relocated
- Mine tour with new committee members went well, good support and very beneficial. Karen Hawke sent her thanks and appreciation.

Question:-

How effective is the rabbit baiting?

Has reduced large numbers as all bait has been taken up. Now plenty of feed, not just on Terramin property but also neighbours, so a concentrated effort has been made on property boundaries. Really need an integrated program working in and co-ordinated with neighbours. No foxes seen recently. Mice not a problem at the mine.

Exploration program/future development (Rob Howie)

Program is now 300 m below surface and has drilled 2,000m of holes. The *Sunter Shoot* is 500m south of the current mine, next to Tailings Dam but still within the Mine Lease. Recent drilling indicated good grade ore body but not ore production quantities as yet. Getting more capital to do a deep drill to define ore body. May go down to 800m but still close to existing mine, as have the infrastructure to do this. There are also other areas that would like to explore.

If economic to mine, will apply to develop and amend current MARP as will be an increase in total production amount and area. If economic it may add 1-2 years to the life of the mine.

Environmental staffing/community interface

Ray Greenhill and Rob will handle the community issues to ensure continuity when Anya

	<p>takes maternity leave. Have found a person to take on Environmental role for 12 months (including MARP review, with some community interface work), having looked at the workload. It will be 5 weeks before they are onsite. They have a good background in regulation and auditing.</p>
<p>5.</p>	<p>REVIEW OF ANGUS MINE WATER BALANCE AND TSF ISSUES (Rob Howie)</p> <p>Update</p> <p><u>Current Status</u></p> <p>Dam relative level in metres has increased but dam area has decreased. April rainfall has been low. RL now 71.59m and Area now 51,800 sq m (+0.28m and -1,302 sq m respectively since Jan 1, 2011).</p> <p><u>Water treatment</u></p> <p>Two smaller RO plants are continuing to operate and working to optimise output from these.</p> <p>Trail plant from OSMOFLO used for 3 weeks and showing promising results using microfiltration from Siemens. Pre-treatment is the crux of the matter and so focussing on this; Parsons report showed original plant was under sized by 1/3rd. This process uses thin fibre and as water passes through it removes and separates iron etc. Initial results are positive. Have tried it using all types of water e.g. raw mine water – dirty groundwater but no chemicals, low pH TSF water and shandies. Only problem to date is with shandies. TSF pH varies from 3 to 8.</p> <p>Main RO plant has had 2 electrical incidents related to valve problems and high feed water turbidity, this has been rectified. One prolonged WorkSA shutdown. Also required frequent filter cartridge changes as they have been undersized. Ongoing chemical balance issues still require 24hr manned operation and further shut downs for improvements are planned. Have employed a new Project Engineer Andre Mazarenko for past 2 months to drive improvements and include a full review of the system.</p> <p>Terramin is committed to make this successful and reach highest levels of treatment. In May reaching 500m³/day consistently which is significant improvement. Average since October 2010 is now 300m³/day. Aiming to reach 600m³/day and to stay at that level. In addition to this, the two smaller RO plants are treating 200m³/day each; they will be retained and better pre-treatment could add 100-150m³/day to their capacity.</p> <p><u>Paste Backfill</u></p> <p>Last year paste was not setting the way it should, so looking at tails density, should be 70% solids. Have been re-engineering and going back to grass roots and so now achieving 70% solids but it varies. If lower than 70% must go back into tailings dam.</p> <p>Over the last week achieved 2,500m³; target is to underground 10,000m³/month. This includes the amount needed to catch up and also maintain the stopes.</p> <p>Testing it everyday a minimum of 2 times and after 28 days will also test samples for strength. This is another big step forward; the team working on this has lots of drive and focus, with good help from the contractor. Note that cement rock fill continues in lieu of paste; for 45,000-50,000 tonnes ore 15,000-20,000 tonnes of cement rock fill is used (same volume is lighter than ore).</p> <p><u>Forecast Update</u></p> <p>Looking at what would happen if added another 600m³/day through RO, with 2 small ones at 400m³/day and another extra RO at 600m³/day (coming online in 3 months time, subject to Board clearance), it still means RL 68 in TSF until May 2012 assuming max 10l/sec mine inflow continues. If salts increase (and they will), this has to go back underground and not into TSF.</p> <p>No concerns with seepage at TSF and monitoring water level shows it is steady and stable.</p> <p>Thanks to Rob for another good description.</p>

	<p>BREAK at 8.45 for 20 minutes</p>
<p>6.</p>	<p>MINE CLOSURE PLANNING</p> <p>The proposed sub-group will require clarification of work done to date, including MARP Appendix C and Appendix X not found in current MARP version on the web site. TZN advised they were substantially incorporated into the body of the final MARP. However, they were in earlier versions and Anya undertook to dig out copies for reference. The Chairman will then prepare initial scenarios for consideration by the subgroup. Meetings can largely be conducted by e-mail.</p> <p>The following members were suggested for the subgroup:</p> <ul style="list-style-type: none"> • PIRSA – Nicole Edkins • Terramin – newly appointed Environmental officer • Council – Graham Webster (or Neville Styan as deputy) • One near neighbour – suggest Sue Jettner • One other original SCCC member – suggest Mike Farrier • Chairman - Charles Irwin. <p><u>Comments</u></p> <p>Seems a reasonable working group. Must ensure that they report back to members at full committee meetings.</p> <p>Sub-group will be involved in data gathering and meeting in the next quarter, bringing collective expertise to the table. Options for mine closure at present are:-</p> <ol style="list-style-type: none"> 1. Relinquish lease, cap TSF 2. Relinquish lease, cannot cap TSF – need to be in line with guidelines and objectives of MARP. 3. Extension of lease and TZN involvement at site (various options). <p>It will be an iterative process, presenting options on how the mine site will look when Terramin walks away.</p> <p>Action: Anya/Rob to ensure that Charles has all existing Closure information. Charles to convene group.</p>
<p>7.</p>	<p>OTHER BUSINESS</p> <p>Committee contact details</p> <p>Need to check that have correct email for Ben Brazzalotto. Note that this is a live document and will be up dating as required.</p> <p>Still no contact from Tony Sheldon since his appointment, he will be removed from list and a replacement for the Eastern Fleurieu School will be sought.</p> <p>Action: Merri will liaise with Anya re correct email for Ben Brazzalotto. Merri will up date contact list as required and circulate new list to all members (received some changes at this meeting).</p> <p>Action: Charles to send a letter to the Principal, Eastern Fleurieu School, requesting a replacement for Tony Sheldon (NB they are aware there is a gap in their membership on the committee).</p> <p>Review of MARP and SCCC Terms of Reference</p> <p><u>Up date on terms of reference by Stephen Marlow.</u></p> <p>The original/current terms of reference is out of date so it is timely to review. Stephen will produce a discussion paper more clearly defining roles and incorporate information from other CCC's.</p>

SM suggested a draft discussion paper should be circulated to the committee members prior to discussion at a special meeting as it would take up too much time in the agenda to do this at a normal meeting. Meanwhile existing document is workable so urgency is not there and it will take some time to get input from a wide range of sources. However, it needs to be done and need to get it right. Suggestions that it should be – Simple; clear about roles and responsibilities; indicate recruitment, tenure and election of committee members.

Action: Stephen to circulate draft terms of reference document to all members prior to calling a special meeting to discuss.

Review of MARP

Nicole informed the meeting that PIRSA has talked to Teramin and given them formal instruction to review current MARP. Need to better define the criteria in the MARP to allow better measurement of the success or failure of each outcome. Currently the criteria are not clear. The document will be up dated so it is more concise and user friendly for the committee, Terramin and PIRSA. It is now intended to conduct a review of the entire document, not just add a few variations as previously discussed with the group. Note that the Lease Conditions will remain the framework for the MARP.

It maybe available 6-8 weeks after the new person (replacement for Anya) starts. It will include a review of the relevance of current criteria and will need to ensure that the original intent is not lost. The committee has a role in this review and this consultation will be built into the review cycle. Note that this is a big body of work and the SCCC will require 6 to 8 weeks to conduct its review and make any necessary comments.

Action: Terramin to inform SCCC of the schedule for this review process

Publicity and advertising meetings

Adverts now placed in both papers – Courier and Argus.

Need to set up something more formal with the Strathalbyn Library and Alexandrina Council. Next newsletter was delayed, but is now expected to be out at end of May.

Round Table Discussion of other issues (Not discussed above)

Sue – Mine rehabilitation Workshops - **“Achieving Rehabilitation Success”, 16-19 August 2011, Adelaide, South Australia**

Mark – mine tour appreciated, gave good overall view of mine and was good for bringing new members up to speed.

Thanks to Anya from all of the committee and good luck.

The Chairman noted with regret that our hall and catering helper Bob Newcombe died on 27 April. His work with the SCCC was greatly appreciated and will be missed. Condolences to his family and friends.

Thanks to Don and his wife Ruth for hall and catering and thanks to all in attendance.

8. FUTURE MEETINGS

The next meeting on Thursday 18 August at the Senior Citizens Hall @ 7pm.

Frequencies of SCCC meetings are once every three months on the third Thursday of the month - Thursday 17 November 2011

9.	MEETING CLOSE Meeting closed 9.40pm.
-----------	------------------------------------------------

ACTION LIST

Terramin/Anya	Circulate AECOM report on review of noise model.
Anya/Rob	Ensure Charles has access to all existing Closure information
Merri	Confirm Ben B email address and up date contact list as required
Charles	Send letter to the Principal, Eastern Fleurieu School, requesting replacement for Tony Sheldon Convene Closure sub-group
Stephen	Circulate draft terms of reference to all members prior to special meeting
Terramin	MARP review schedule to SCCC