

MINUTES OF MEETING
STRATHALBYN COMMUNITY CONSULTATIVE COMMITTEE

Thursday February 18 2010

@ 7.00 pm

Senior Citizens Hall, 6 Parker Street, Strathalbyn

PRESENT:

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| Charles Irwin - Chair | Fred Carrangis | Susan Jettner | Julia Currie |
| Barry Davis | Ben Brazzalotto | Adrian Pederick MP | Anne Woolford |
| Mike Farrier | Gallery 6 | | |

PIRSA:

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| Hans Bailiht | Ted Tyne | Henry Andryszczak | Greg Marshall |
| Holly Nicholls- Sec | | | |

TERRAMIN:

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| Anya Hart | Greg Cochran | Robert Howie |
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EPA:

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| Rob Lyons |
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APOLOGIES:

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| Tony Sheldon |
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Meeting commenced at 7.10 pm

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| 1. | WELCOME BY CHAIRMAN Welcome to new Terramin representatives Greg Cochran (CEO) and Rob Howie (GM), EPA representative Rob Lyons and members of the gallery. Introduction of selves around table. |
| 2. | APOLOGIES Apologies were accepted, as outlined above. |

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| 3. | <p>REVIEW OF MINUTES OF LAST MEETING</p> <p>Corrections to November 19 2009 minutes:</p> <ul style="list-style-type: none"> - Roz Twartz be removed from email list - The spelling 'sandfire' on page 5 should actually read "standpipe". <p>November 19 2009 minutes accepted as true and correct.</p> |
| 4. | <p>REVIEW OF LEASE/MARP COMPLIANCE STATUS</p> <p>This item is included to show that PIRSA is doing its job as regulator and to communicate any community concerns to both Terramin and the SCCC.</p> <p>Report given by Hans Bailiht – Senior Mining Assessment Officer</p> <ul style="list-style-type: none"> - Almost weekly meetings between PIRSA and Terramin's executive and mine managers to discuss water issues. - The TSF water was up o 50,000m² and is now down to 48,000m². Target is 15,000m². - Concentrate shed doors have experienced mechanic issues. Design system in place. PIRSA attribute an on site dust problem to the shed. Generally improvements have been made since discussions. - The TSF water cart has been seen emptying water in to the silt trap at the bottom of the dam. Water either from underground or TSF. PIRSA notified the EPA on this matter- an expiation notice was issues immediately. - In the East around the back of the tailing stand is evidence of salt- indicates more tailings water in clean area. Terramin have described this as a sprinkler problem and have since adjusted the sprinklers and added guards. - Weeds have been a continuing problem. They are spraying but the issue needs to be addressed further. - The TSF wall is to be vegetated in April 2010. <p><u>Discussion points:</u></p> <ul style="list-style-type: none"> • Concern raised about the ongoing door issue at the concentration shed- it has arisen at each of the last three meetings. This is not acceptable. It is an issue that regulatory bodies cannot regulate. The speed at which issues are being addressed is a problem e.g. TSF water balance, concentration shed doors & revegetation. • Weeds at visitor information centre are an issue and photos have been sent to Terramin. A number of means are being used to address this issue. • Terramin have a design for electric roller doors in motion- drawings are available upon request. An engineering company will be on site next week to organise the scoping of tender. In the meantime, the doors are under stricter regime. The only assurance of the issue being addressed is daily walks around the site with disciplinary procedures in place. The mill manager has been given a procedure for closing doors. |

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| <p>4. cont</p> | <ul style="list-style-type: none"> • Since early November PIRSA have issued regulatory letters, undertaken inspections and met with Terramin management 17 times. Closure of concentrate shed doors has been an ongoing issue on regulatory letters requiring action to be taken. PIRSA is convinced that the next couple of months will see the issue fixed. A number of issues have been addressed and fixed over a number of letters sent by PIRSA to Terramin. There is no prescriptive device for PIRSA to use to regulate and require the doors to be closed. |
| <p>5.</p> | <p>REVIEW OF MINE PROGRAMME/ACTIONS FOR NEXT 3 MONTHS</p> <p>Please see Terramin PowerPoint presentation, spoken to by Anya Hart.</p> <p>Note that information presented in PowerPoint pertains to October-December period only.</p> <p><u>Discussion points:</u></p> <ul style="list-style-type: none"> • Terramin announcement- regional exploration program. Objective primarily to identify new ore bodies the size of which may lead to the development of new exploration. Potential for smaller deposits to be discovered. If potentially viable, may go through process to extend license. Medium to longer term possibility. • Concern over the times at which press releases have been put out without mention of approval processes. This is also evident in the community newsletter. <p>Action: Information given to the press should include details on the approval process to ensure community understanding.</p> <ul style="list-style-type: none"> • Closure plan cannot be disregarded pending what could happen. |
| <p>6.</p> | <p>QUARTERLY ENVIRONMENTAL REPORT</p> <p>Please see Terramin Quarterly Report No #13 (October to December 2009), spoken to by Anya Hart.</p> <p>Discussion points:</p> <ul style="list-style-type: none"> • Noise monitoring- new methodology has begun. Some refining to do. <p>Action: Quarter by quarter results are used in the body of the QER and compared seasonally with the previous year. Other data is to be displayed in an appendix at the end of the report.</p> |

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- Dust characterisation is hard to determine meaning it is difficult microscopically to pin point the origin. Tonkins (original dust monitoring) are working with Terramin to scope other testing regimes to determine sources and make recommendations to reduce lead deposition levels.
- Concern that dust points measured are only in two directions and do not necessarily take in to consideration wind direction.
- Tonkins will investigate this- currently there are three monitors (5, 7 & 2) that are all in the direction of prevailing wind.
- Prevailing wind is classified as most common average wind direction from mine to offsite.
- Concern that a 'scooping' effect could be experienced where wind collects dust and deposits it in another location that is not evident in existing monitors.
- Initial report based on weather data from Strathalbyn Race Course, not more localised data. That is now available, so worth asking more questions.

Action: Factor in to Tonkins Report the possibility of a 'scooping' effect of dust. Revised Tonkins report to use more localised data.

Action: Update photos to be clearer and positions clearer to read. Dust depositions should be more legible.

- Environmental Improvement Plan- All plans are in place but still seeing issues- engaging out of house experts to assist with issues.

Action: Next meeting Terramin provide a concise report on the status of the EIP.

- PIRSA received a blast complaint over Christmas that has been passed on to Terramin. Blast has been attributed to production needs and the issue has been raised at a Terramin level.

Action: Next meeting Terramin must provide blast monitoring information.

- Mine blasting- it is a MARP criteria and a lease condition. Concern over ongoing lack of data for blasts.
- One reading recorded significantly higher than others. Strong winds likely cause.
- The car park is the major cause of drag out.
- Silt/sludge= material washed from wash down bay. Segregated from waste oil and grease. Waste oil and grease is recyclable.
- Odour monitoring- previous minutes indicated Terramin would keep a diary with nearby residents. Residents have not contacted Terramin since. Anya will follow up. Correlates with wind direction.

Action: Terramin to follow up odour monitoring with concerned neighbours.

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| <p>6. cont</p> | <ul style="list-style-type: none"> • Concern that weather station is still not in operation. • Trial planting plot as indicated in previous minutes has not gone ahead. • Revegetation to continue with the company Cooee. • TSF wall- plans are under way. Start date is weather dependent. • Complaints line- concern that not all messages are being relayed via SMS system to Terramin staff. Some unprofessional comments have reportedly been made by the complaints line staff. Terramin have followed up this issue with the company and are in the process of seeking more information. Anya and Hans continue to make random checks. • Suggestion that Terramin send a small flyer to neighbours to inform on changes to blast, blast times etc. Terramin are looking at other ways to inform and make presence in the community. • PIRSA- regulation point of view with MARP- trial for 12 months. Will revert back to what is in MARP document if not happy with how things are going. • Terramin aligning environmental systems with safety systems. Internal processes where people have accountability for actions and potential repercussions. • The QER executive summary does not mention water issues despite proving the most pressing issue. <p>Noise Monitoring</p> <p>See PowerPoint presentation for daytime and night time noise contours model.</p> <p>Action: Anya to send noise contours model to SCCC when refined</p> <ul style="list-style-type: none"> • Monitor locations- any wind speed over 5m second results in useless noise data. Noise data does not monitor wind speed. • Anya to proceed with manipulating data. • QER attended monitoring- could be a useful tool in future to measure specific complaint areas. <p>Action: Include point of reference for production forecast.</p> |
| | <p>Break 8.45-9.05pm</p> |

7. REVIEW OF ANGUS MINE WATER BALANCE AND TSF ISSUES

PowerPoint Presentation spoken to by Robert Howie.

Discussion points:

- Water is tested (before re injection) via a number of methods:
 - test source water (weekly)
 - test water at bottom of bore (weekly)
 - Anya and Robert assess
 - available for PIRSA to look at any time
- Have been operating under trial conditions. Data from trial period goes to EPA for investigation. Full approval needs to be given by EPA before trial conditions cease.
- Terramin confident paste back fill placement (re direction of tailings) will commence in March.
- Dredging- the sediment dredged goes back to the tailings stand.
- Practical tests on site for amount of evaporation. No site specific evaporation data available. Cake trays are being used in and around tailings stand to understand varying levels of evaporation.
- The dam has suitable water capacity and tailings consultants have confirmed structural integrity of the dam is sound with current amount of water.
- To the best of Terramin's knowledge, there is enough volume to handle a one in 100 year rain event.
- Double liner- weekly testing to ensure all monitoring points is being monitored regularly. Any penetration will be captured, but Terramin believe it will not reach that stage.
- 15,000m² is maximum for a working de cant pond.
- Concern that the water level has already exceeded the interface yet Winter and heavy rainfalls have not yet begun.
- PIRSA's approach- requiring Terramin to enter in to a Management Plan with clearly measurable targets that can be reported against. Terramin's plans were unrealistic and were not reached by January. PIRSA's meetings with Terramin and instruction that has been given to the company have focussed on speeding up the rate of reduction of water in the TSF.
- Focus for management now is to come up with ways to get excess water out of the system. PIRSA confident that this will happen however needs to be a lot quicker than currently. PIRSA not particularly happy with the management up until January.
- Water levels are under control and levels since October are gradually lowering.
- Water pumped in to the sted ponds is purified water that has passed through RO plant and meets irrigation standards (EPA condition).
- Anya and Rob to seek interest next week for potential commercial/irrigation water users.

- Achievement projections subject to consultant report. Projections could be up to one year to lower the water. Subject to machinery availability etc.
- Steds ponds have around 60ML³ available (based on aerial and freeboard measurements).
- The steds pond may not have enough capacity to carry through Winter dependent on ongoing use by polo ground etc.
- During the last quarter Terramin's tailings consultants submitted report against tailings stand for previous reporting period. Now available on the Terramin website.

Action: TSF monitoring bores below TSF wall need to be looked at with more rigour and ensure results are monitored against the standard. The quality of the TSF should be compared over time using a 'trend' line.

- Terramin proceeding with two RO's and they believe should reach 68.5RL by late April.
- Rain events will likely see a rise in water levels. Likely the trend line over the next 12 months will generally be down dependent on major rainfall events.
- Current projections and modelling is based on 2009 rainfall levels.
- Additional RO plant may not be available until April.
- Re injection of water is a possibility however Terramin unsure whether as much can be injected as needed.
- One in 100 year rain event- no guarantee levels would stay below 68RL.

Action: Terramin to calculate possible RL level if one in 100 year rain event occurs.

- Leakage control methods:
 - seepage detection sumps
 - piezometers
 - ground monitoring bores around perimeter
- Monitoring of water- steds and re injection water is monitored for quality on a weekly basis as it leaves the site and as it enters the re injection and steds. Monitoring results- online conductivity and pH measurements are immediate. About a five day turn around for full gambit of water quality.
- Inadequate water quality for pumping can be detected immediately from a conductivity perspective. Conductivity correlates with impurities. Automatic shut down if conductivity (good measure of other impurities) goes above a certain level.
- Monthly email/letter updates are helpful. Trend graphs are particularly helpful. Format of previous letter is deemed suitable.

Action: Terramin to ensure community letters/emails include steps that have been taken to achieve strategies.

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| 8. | <p>OTHER BUSINESS</p> <ul style="list-style-type: none"> • Feedback on potential new membership of SCCC <ul style="list-style-type: none"> - three resumes received so far. - possibility of many more who have not yet submitted their resumes. - one more cycle to seek members then portfolios of interest will be discussed around table before final decision made. • The new Vegetation Plan update will be discussed at the May meeting. • Mine closure update to be discussed at next meeting- PIRSA have distributed MARP clauses. <ul style="list-style-type: none"> - surface of TSF can be viewed at www.nearmap.com . Includes aerial photograph taken 14 December 2009 <p><u>Next meeting</u></p> <ul style="list-style-type: none"> - what is in place? - what are the objectives? - Council Planning input required- what is their vision for the area? Council Planner to attend the meeting. - lease conditions in relation to closure. - guidelines for MARP in relation to mine closure. - documents to be distributed pre meeting to allow SCCC enough time to review. - PIRSA mine closure guidelines to be discussed. - hard copies to be posted to SCCC members in advance. - geotechnical audit of lease conditions (annually). <ul style="list-style-type: none"> • Advertising of meetings- if trying to encourage people to attend, should we be advertising in advance? Terramin happy to support if encourages people to attend. • Government representative- Strathalbyn will have a new representative which the group may wish to involve in SCCC. Adrian will continue as an individual. • SACOM- Terramin will be involved in the mine rescue competition along with 7 other mines from SA and several interstate teams. • Rehabilitation trials for surface of TSF- nothing has been started yet. |
| 9. | <p>FUTURE MEETINGS</p> <p>Thursday May 20th, 2010 at the Senior Citizens Hall @ 7.00pm.</p> <p>Frequencies of SCCC meetings are once every three months on the third Thursday of the month.</p> <p>Thursday August 19th, 2010 Thursday November 18th, 2010 Thursday February 17th, 2011</p> |
| | <p>MEETING CLOSE</p> <p>Meeting closed 10.20pm.</p> |