

# DISCUSSION AGENDA & MINUTES

PREPARED FOR: Community Consultation Group Meeting

Attendees		Apologies
Geoff Fairhead (GF) Fiona Philson (FP) Pamela Makar (PM) Wayne Williams (WW) Sue Leighton (SL) Ian Dickinson (ID) Gavin Pollock (GP) Graham Steel (GS)		Brian Talbot (BT) Ken Norman (KN) Ben Ratz (BR) (alternate)
Date	Time	Location
28.01.19	08:00	Galaxy Exploration Office – Ravensthorpe

## 1. Welcome

- Wayne Williams opened the meeting

## 2. Apologies

- Ben Ratz (alternate)
- Ken Norman
- Brian Talbot

## 3. Declaration of conflict of interest

- No conflicts of interest were identified by CCG members.

## 4. Confirmation of the previous meeting minutes

- Not requested.

## 5. Actions items

- Previous meeting actions that have been closed will remain on the below list for succeeding meeting before being removed.

- Actions below summarise commitments made during the meeting.

Date Raised	No.	Action required	Who	Date due
13/12/18	26	Send meeting minutes to SoR for addition to SoR web page.	Galaxy/SoR	20/01/18
13/12/18	27	Forward findings and referenced material on the health effects of Mica to CCG.	Galaxy	20/01/18
13/12/18	29	Find out response time from the Pitch your Project	Galaxy	20/01/18
13/12/18	30	Blast guard closure times. Contact Blast controller to determine if a vehicle waiting at blast guard is able to pass once closure occurs.	Galaxy	20/01/18
28/02/2019	30	Pass on information regarding Die back identified at the Blacksmith Tree	Galaxy	14/03/2019
28/02/2019	31	Table of relative risk to % of exposure limit	Galaxy	14/03/2019

Outcomes of closed actions;

N/A.

#### 6. Administrative items

N/A.

#### 7. Galaxy progress report; the year ahead.

- Hugh Trivett has left Galaxy and is no longer the General Manager at Mt Cattlin. Brian Talbot will be filling the role of the General Manager until further notice. Brian will be attending the CCG meetings until the General Manager position is filled.
- **Mt Cattlin Processing Plant upgrade:**
  - Yield Optimization Project (YOP) is nearing completion of the commissioning stage. The YOP is very important for Mt Cattlin as it will increase the quality of the product shipped while increasing ore recovery by decreasing the minimal size captured during processing.
- **Tailings storage facility (approvals being sort)**

- Reject material will be used to cover the Tailings Storage Facility (TSF) as part of the tailings closure plan on closure of the TSF. Rehabilitation will occur on closure of the site.
- Future tailings will be tipped into the 2SW pit. Material does not contain any toxic material. Tailings consist of processed rocks that have been washed in saline ground water with only Ferrosilica added to the process.
  - The current TSF is a major dust emission source, covering the site with rejects will remove dust emissions produced from weather conditions. Reject material is essentially washed rock, a heavier density to the material discharged to the TSF and will not be picked up in high wind events.
  - Independent expert consultants are developing alternate scenarios for in-pit tipping.
    - SL – Will the new TSF it be lined?
    - WW - The current TSF is not lined with plastic, like many of the TSF in Australia. Lining of the in-pit TSF is unlikely. The final design will be chosen from a selection presented by the independent TSF consultants.
  - Regulatory approval is being sort.
  - It is anticipated that this will significantly reduce the likelihood of strong winds generating dust emissions from the TSF at Mt Cattlin.
- **Mining:**
  - Floater road has been mined out and mining has commenced in the Southern Pit east of Cattlin Creek. Recent clearing of the native vegetation and topsoil has occurred.
    - The two pits crossing Floater Road are providing the ore sent to the processing plant.
    - A sound bund has been put in place at the southern end of the pits to reduce sound traveling to Ravensthorpe town site.
    - Mining of the 2SW pit is complete, feasibility drilling identified no new economically viable ore bodies below the floor level. This will allow Mt Cattlin to begin looking at options for backfilling with tailings material.
- **Waste Rock Dump Expansion:**
  - Proposed extension of the waste dump will be in the due east direction only. It will not extend any further south.
  - Height of extension will not be as high as the current level. Minimal reshaping will occur to what is already existing.
  - The design of the waste dump will have shallow gradient slopes with large flat surfaces.
    - This is deemed the best practice for rehabilitation.
    - We will use the waste to commence back filling in the Dowling SE pit once mining is complete.
    - It will also act as a sound barrier for town.
- **Rehabilitation:**
  - Progressive rehabilitation is still planned on the waste rock dump. The pause in rehabilitation is related to the change in design of the waste dump and the confirmation of budgeting requirements. Due to topsoil being a precious commodity we cannot waste it and need to be certain we will only place it on areas where development is not planned for in the future.
  - The use of newly removed topsoil from current development areas is preferred as the topsoil

stock piles are of poorer quality.

- Seed stocks will be made up from local species collected in the area by Mt Cattlin personnel or purchased from local seed collectors.
- Local germinated tub stock may also be considered.
- **Creek Diversion:**
  - Clearing of vegetation and topsoil has occurred and construction is well underway.
  - S18 area for Mt Cattlin 2 site has been cleared of vegetation and topsoil, two Traditional owners came to site to monitor this clearing.
  - Creek diversion is planned to be completed by the end of May.
- **Road Diversion**
  - Stage one is complete. However, Mt Cattlin is experiencing delays with stage two construction as a result of delays to finalising the design with Main Roads and completing the land transfer.
    - GF- Is a slip lane still being considered?
      - GS- Main roads have reiterated their standards for road developments and have recommended a passing bulge. SoR discussed the community concerns around a slip lane with Main roads, they stated a slip lane to the south was not considered necessary.
- **Dieback:**
  - WW – With community concerns towards the declining health of the Blacksmith Tree Mt Cattlin hired an independent arborist to determine factors influencing its declining health and provide recommendations. The arborist completed a thorough investigation and considered multiple potential causes of the trees declining health. Samples taken during the investigation indicated that the most likely cause was Dieback. However, further testing was required to determine species by an accredited laboratory.

Galaxy Mt Cattlin engaged the services of Joseph Grehan, an independent qualified ecologist and accredited DBCA Dieback interpreter. Joseph was hired to carry out an extensive broadscale assessment of the Blacksmith Tree as well as a broadscale assessment of Mt Cattlin's development area.

4 species of Phytophthora were identified from 3 out of 6 samples taken.

The positive result for a soil sample at the Blacksmith tree was for *P. pseudocryptogea*.

Recommendations for the blacksmith tree include fencing of area, treatment with phosphite injections, weed control and installing 'standard protocol dieback' to raise the public awareness and boot cleaning stations.

The species identified within the Mt Cattlin Development area were *P. condilina*, *P. araneria* and *P. inundata*. Although Galaxy Mt Cattlin has well established management systems to control dieback, Mt Cattlin increased hygiene protocols in the areas around the dieback sites during the removal of vegetation and soil.

None of the species identified are not the aggressive *P. cinnamoni* sp. The assessment indicated that the overall risk, though still present, is low.

## 8. Community engagement activities

N/A.

## 9. Community issues

- ID – There are community concerns about the fibrous material discovered at Mt Cattlin.

- WW – I commenced last year in June, just prior to the fibrous material being found.

There was no evidence that this material was present from preliminary drilling which occurred during the resource development stages. Fibrous material is relatively easy to identify, but due to the small size of the occurrence, it was never intersected or identified in the drilling sample piles logged by the geologist.

It was found by a digger digging in pit and only in three locations.

The Geologists interpreted as a thin fault containing actinolite. The primary hazard to humans is inhalation of airborne respirable fibrous material.

As soon as the fibrous material was identified a detailed risk assessment was completed involving representatives from all affected work areas.

A fibrous material management system was developed and implemented immediately afterwards. Control measures for managing the risks related to working in or near the area where fibrous material was found at Mt Cattlin include:

- Delineating the area and controlling access.
- Watering the area prior and after the shot was fired and during digging to prevent the material becoming airborne
- Pressurised sealed cabins are fitted to earthmoving equipment to protect the workers from dust
- Sheeting the area with benign material
- Implementation of decontamination procedures prior to exiting the area
- Personal Protective Equipment is required for personnel working inside the area (Respiratory Protection Equipment, Protective disposable coveralls)
- Waste material was encapsulated in the waste dump to prevent it becoming airborne
- Hygiene monitoring carried out on the drillers came back with negative results. None of the hygiene sampling undertaken recorded results that were above the Australian occupational exposure standard for Asbestos
- Blasting events only see a very small volume exposed to the environment. The whole volume of the bench blasted is not exposed to the environment, it is limited to the surface of the shot and holes drilled
- Geologists and Drillers inspect each blast hole and monitor for fibrous material

Taking in to account the small volume of fibrous material, the small concentrations of airborne fibrous material, the existing control measures and the length of time people could be exposed – The actual risk of health impacts to people working at Mt Cattlin from exposure to Actinolite is considered to be low and appropriately managed. The risk of fibrous material being emitted offsite and into the Ravensthorpe town is considered to be very low / almost impossible.

Fibrous material is commonly intersected in Western Australian Mines and the controls are well established. DMIRS have developed a guideline for the management of naturally occurring fibrous material. Mt Cattlin comply with this guideline.

- [http://www.dmp.wa.gov.au/Documents/Safety/MSH\\_G\\_ManagementOfFibrousMineralsInWaMiningOperations.pdf](http://www.dmp.wa.gov.au/Documents/Safety/MSH_G_ManagementOfFibrousMineralsInWaMiningOperations.pdf)

**10. Other Business**

N/A.

**11. Next meeting**

- Meetings are scheduled to occur the second Thursday of the month at 8am.

**12.** The next scheduled meeting will be held on the 14<sup>th</sup> of March 2018.

**13. Close**