

DISCUSSION AGENDA & MINUTES

PREPARED FOR: Community Consultation Group Meeting

Attendees		Apologies
Ian Dickinson (ID) Geoff Fairhead (GF) Fiona Philson (FP) Sue Leighton (SL) Graham Steel (GS) Keith Muller (KM) Bishoy Rizk (BR)		Ken Norman (KN) Gavin Pollock (GP) Rob Loyde (RL) (Alternate for ID) Ben Ratz (BR) (Alternate) Brian Talbot (BT) Pamela Makar (PM)
Date	Time	Location
13.06.19	08:07	Galaxy Exploration Office – Ravensthorpe

1. Welcome

- Ian Dickinson (ID) opened the meeting
- Welcome to Keith Muller, Galaxy Operations Manager
- Welcome to Bishoy Rizk, Galaxy Mt Cattlin HSE Advisor

2. Apologies

- Ken Norman (KN)
- Gavin Pollock (GP)
- Rob Loyde (RL)
- Ben Ratz (BR)
- Brian Talbot (BT)
- Pamela Makar (PM)

3. Declaration of conflict of interest

- No conflicts of interest were identified by CCG members.

4. Confirmation of the previous meeting minutes

- February 2019 CCG & March 2019 meeting – All members confirmed previous meeting minutes.

5. Outcomes of Closed Actions

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6. Actions items

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

Date Raised	No.	Action required	Who	Date due
14/03/2019	32	Request expression of interest for BM replacement as a 'Community Representative Group' member for the CCG.	Galaxy	Closed 27/06/2019
14/03/2019	33	Discuss expression of interest received for the Community Representative Group position on the CCG.	CCG	Closed 27/06/2019
13/06/2019	34	Notify Kim Bennett of CCG Successful Application and send apologies for Kristen Lanham for CCG unsuccessful Application	Galaxy	Closed 27/06/2019
13/06/2019	35	Contact Katie Morgan regarding Wildflower 2019 event as the Contribution figure from galaxy towards the event is not displayed in March's CCG minutes.	Galaxy	
13/06/2019	36	Galaxy need to come up with an action regarding highlighting when road closure will occur during Blast Events for harvest periods (October Onwards).	Galaxy	
13/06/2019	37	Hawks Nest Historical Society Plan update- Information passed on to Galaxy for Historical Society	ID	
13/06/2019	38	Galaxy to provide an updated plan to show all mining updates, pit waste dump and creek diversion.	Galaxy	
13/06/2019	39	Galaxy to provide core samples from previously drilled diamond drill holes for the plant root zone (1-10m), in the surrounding area of Mt Cattlin. This will be used in the flower show exhibition. Core samples will need to be dropped off by the 6 th /7 th of September with a mineralogy write up on the provided sample. Provide a collection of labelled rocks, preferable samples which they can keep for future shows. Sue Leighton can be contacted for sample drop off and collection	Galaxy	

13/06/2019	40	Galaxy provide details covering community concerns on dust.	Galaxy	
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7. Administrative items

- CCG members can invest in GXY shares with no conflict of interest.

- **Galaxy Progress Report Dust monitoring results:**

- **Dust monitoring:**

New results for dust monitoring have been received for both the Dust Deposition Gauges (DDG's) and Hi Vol sampler.

- **DDG's- (measures deposited dust):**

The dust deposition gauges allow Galaxy to assess potential dust nuisance and amenity impacts upon the local community. As there are no relevant regulatory criteria in Western Australia for acceptable dust deposition levels, the dust deposition criteria adopted by the NSW EPA (2017) have been applied as our trigger threshold. All results for Community Dust Deposition Gauges have been below the standard of 4 grams/m²/month. The control DDG (DDG20) has been included as a reference site, however this DDG is located in a farmer's paddock 20km NE of the Mt Cattlin Mine site. DDG8 was reinstated on the 30 April 2019, data is being collected again. DDG8 and DDG9 have been labeled to inform the public what they are and hopefully prevent future damage.

Community Monitors - Insoluble Matter g/m²/Month
by DDG No.

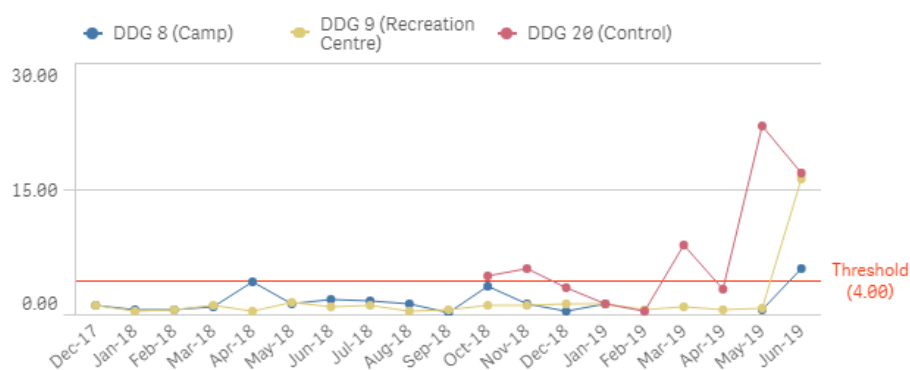


Figure 1: Insoluble matter is everything in the gauge (<1mm) that is retained on the filter as per AS3580.10.1 which is the Australian Standard the sampling and analysis is conducted to.

Community Monitors - Ash Content g/m²/Month

by DDG No.

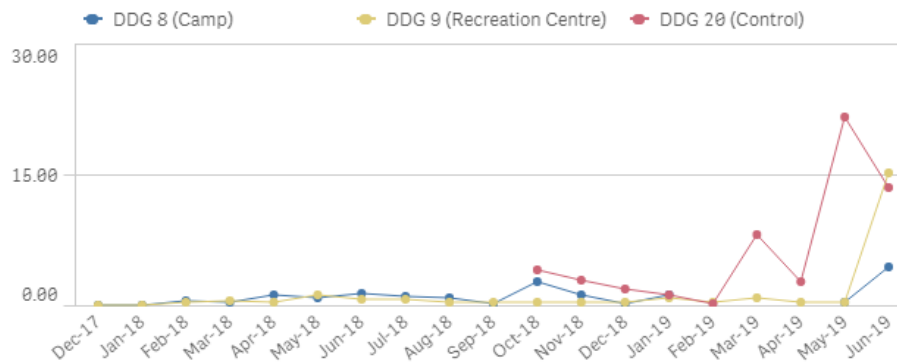


Figure 2: After the Insoluble result is obtained the filter is then ashed at 850 degrees and this produces the ash result.

The ash result is essentially only the heavy mineral matter with any organic matter or volatiles reported as combustible.

Other Than June 2019 all Community Dust Deposition Gauge monitors have all returned results below the standard of 4 gm/m²/month. Investigations are ongoing as to why such an elevated level has only occurred at DDG09 and no other monitor.

The dates recorded on the horizontal axis indicate when DDG's were collected. DDGs are put in place approximately 30 days prior to this date (i.e. 01/02/2019 is for the month of January).

Results are calculated over the recorded sampling periods to give results in gm/m²/month

Results are calculated over the recorded sampling periods to give results in gm/m²/month. The control DDG (DDG20) has been included as a reference, however this DDG is located in a farmer's paddock 20km NE of the Mt Cattlin Mine site. DDG20 exceeded the trigger threshold during November and December 2018, March and May 2019.

Mica Silica (personal hygiene monitor)

Testing carried out for silica and mica is determined using a personal hygiene monitor placed near the HiVol sampler. This will assess the potential for adverse effects on human health in the local community from exposure to fine particulate matter. Sampling results are based on safe work Australia's Time Weighted Average (TWA) calculated over an 8hr workday. All results to date for silica and mica samples have come back below the standard of 0.1 mg/m³ for quartz (silica) and 2.5 mg/m³ for mica.

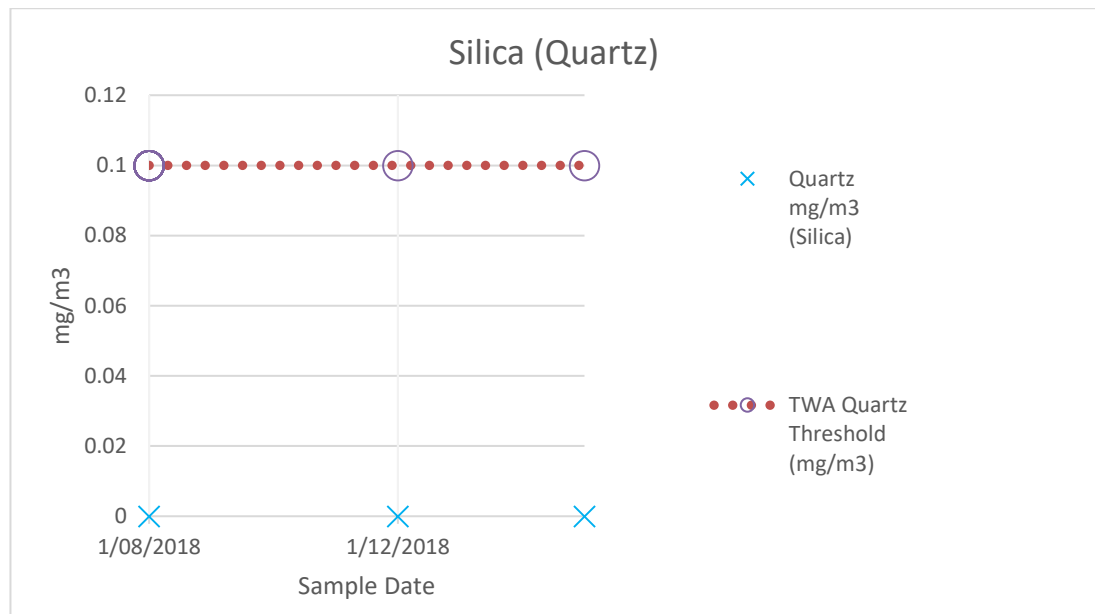


Figure 3: Silica results are collected at the location of the Hi Vol sampler using a personal hygiene monitor. All results to date are below both the labs Limit of reporting and threshold levels based on Workplace Exposure Standards for airborne contaminants using TWA (Time Weighted Average calculated over an 8hr day).

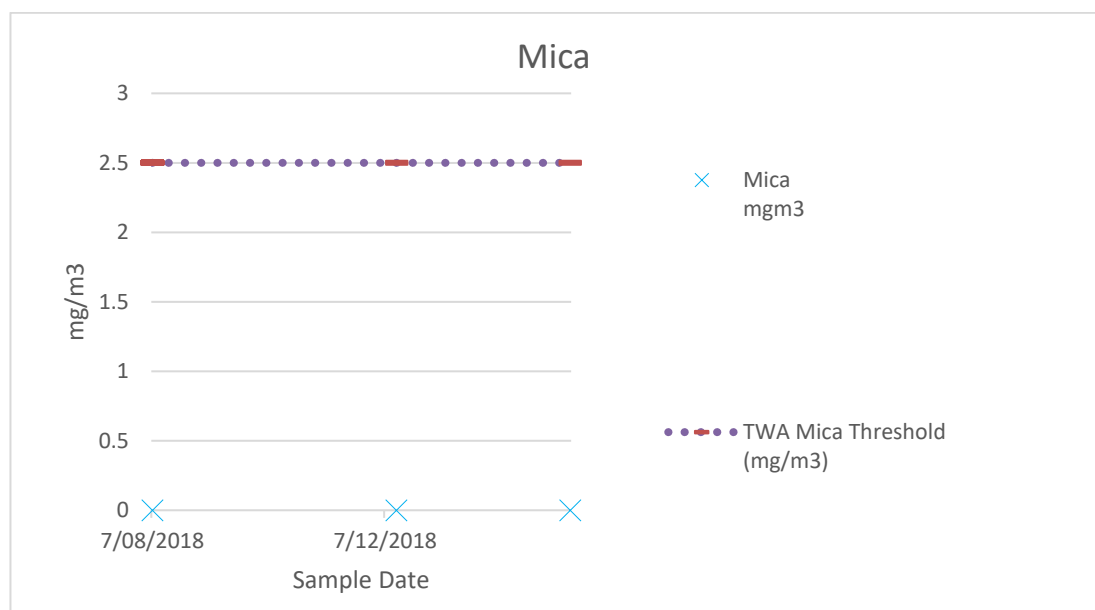


Figure 4: Mica results are collected at the location of the Hi Vol sampler using a personal hygiene monitor. All results to date are below both the labs Limit of reporting and threshold levels based on Workplace Exposure Standards for airborne contaminants using TWA (Time Weighted Average calculated over an 8hr day).

- **Hi Vol Sampler- (measures respirable dust)**

The below graphs show assay results for the Hi Vol sampler for PM10 and selected metals. The Hi Vol is set up at a residential house within the townsite of Ravensthorpe.

- **PM10:**

The Hi Vol sampling for PM10 allows Galaxy to assess the potential for adverse effects on human health in the local community from exposure to fine particulate matter. Galaxy uses nationally recognised ambient air quality standards for various common air pollutants,

including PM10 as a trigger level. PM10 has remained below the threshold for the 24hr standard, as per graph below.

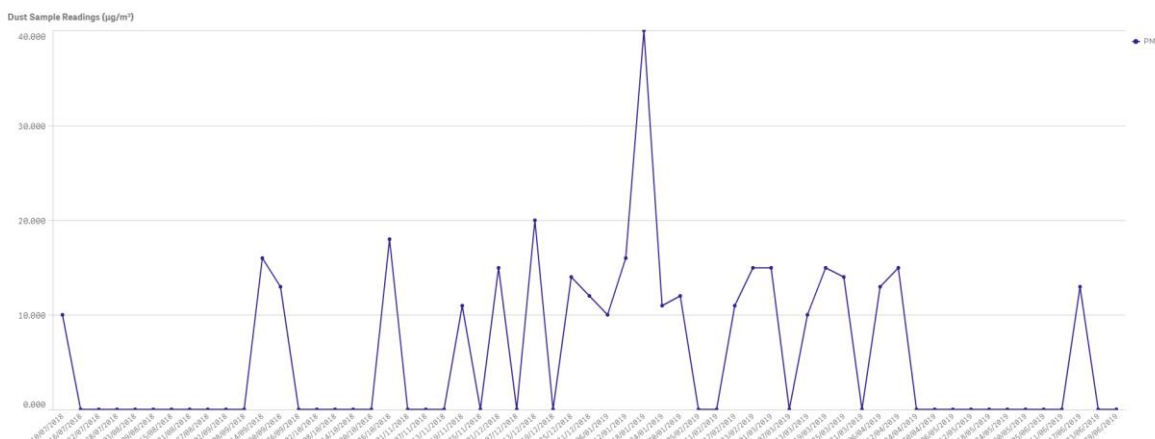


Figure 5: Hi Vol sampling results for PM10 (respirable dust)- 24 hr standard. Deposited dust has remained below the threshold on all sampling days. Where 0 are shown results are below the Detection Limit.

- **Metals:**

The Annual Concentration Trigger threshold (health values) used by Galaxy have been recommended by Environmental Technologies & Analytics (ETA). The values were derived from health guidelines published by the World Health Organisation (WHO) and the United States Environment Protection Agency (USEPA), which differ substantially in some cases. Galaxy have used the lowest value from these guidelines as an ‘annual trigger threshold’. If results returned are above the threshold of the annual trigger threshold a more detailed assessment will be completed. Trigger thresholds are derived for longer-term exposure (life-time exposure), not short-term exposure.

Metals tested for by the Hi Vol sampling program include Beryllium, Cadmium, Manganese, Hexavalent Chromium (CR VI) and Lithium. To identify if there is a potential concern, a full year of sampling needs to be completed, as annual trigger threshold are utilised.

Results for Beryllium, Cadmium, Manganese and Lithium are shown below.

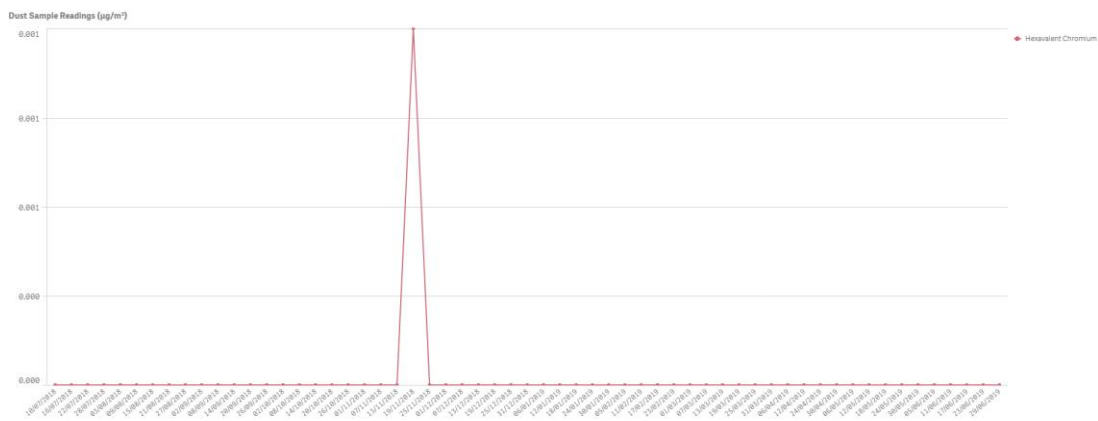


Figure 6: Results in the graph above show sample results for Chromium.

An investigation into the cause of this elevated reading conducted and determined that the source was likely from within Ravensthorpe Townsite, as winds were blowing any mine dust away from town. As this is a once-off occurrence, this is not considered to be above the threshold of the annual exposure limit or cause for concern, discussed in detail in March's minutes.

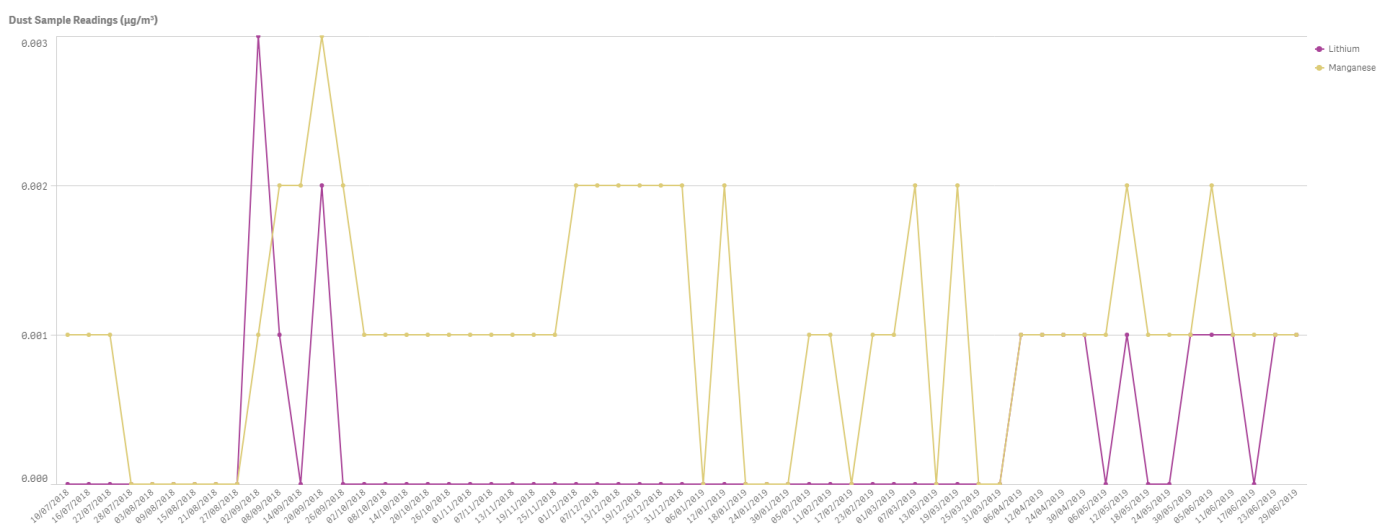
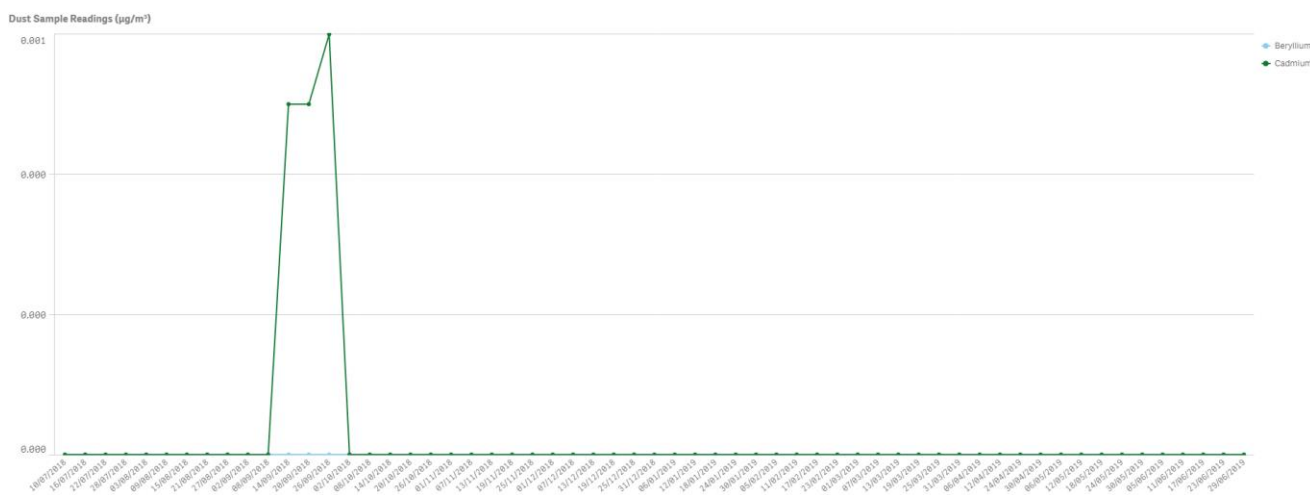


Figure 7,8: The results in the two graphs above show the return results from all sampling days. Were 0 is recorded the results were below detection against the labs limit of reporting (LOR) and could not be assigned a numeric value other than <LOR.

Beryllium remained below the trigger threshold of 0.000400 µg/m² on all sampling days. Cadmium remained below the trigger threshold of 0.0006 µg/m² on all sampling days. Lithium remains below the trigger threshold of 0.20 µg/m² on all sampling days. Manganese remains below the trigger threshold of 0.05 µg/m² on all sampling days.

8. Community engagement activities

Site Tour to be arranged for Community Members- 25th October 11-2pm, below add is going into the Spirit.



Galaxy Lithium Australia
Mt Cattlin Mining Operations

Mt Cattlin mine site visit:
Galaxy would like to extend an invitation to the community, inclusive of adults and children, to attend a mine site tour at Mt Cattlin.

When: Friday 25th October; 11:00 to 2pm

RSVP by September 18th, 2019 to mtcattlin@galaxyresources.com.au or 9839 0300.

Provide the following details

- Name of those attending
- Contact email
- Contact number

A bus service will run to and from Hopetoun via Ravensthorpe to pick up all participants wanting to attend.
The day will include a sausage sizzle prior to getting back on the bus to head back into town.

Community issues Noise-

- ID-Received a community complaint from Mark & Jo-Anne Williams regarding the Mica dust due to rehabilitation.
- Blast air blast over pressure raised as community concern.

9. Other Business

- Mt Cattlin Connect edition 2 will be coming soon.
- Galaxy Website is still being developed, until this is finalized CCG minutes can be found on the shire website, <https://www.ravensthorpe.wa.gov.au/documents/>.
- Community information night held on the 23rd July to discuss blasting activities with local community. It was held at the Ravensthorpe Town Hall 6.30 sausage sizzle with 7pm start for the event.
- SL- Is it possible for core samples and rock samples to be provided for the flower show.

10. Next meeting

- Meetings are scheduled to occur the second Thursday of the month at 8am.
- The next scheduled meeting will be held on the 12th September 2019

11. Close

- Meeting closed @ 09:30 AM, 13/06/2019