

# Terramin General Update

Joe Ranford - General Manager *Angas Zinc Mine*

# AZM: Closure Plan and PEPR Completion

Dear Mr Ranford,

***Mining Act 1971* – Notification of approved Program for Environment Protection and Rehabilitation (PEPR) for Minerals Lease (ML) 6229**

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The program for the Angas Zinc Mine (ML 6229), Version V0, received 7 August 2017 has been approved as PEPR No. PEPR2017/007 in accordance with Section 70C(5) of the *Mining Act 1971*.

- ▶ Approved - 16<sup>th</sup> August 2017

# Angas Zinc Mine

- ▶ **School holiday break in**
  - ▶ Fire extinguishers set off in the processing area
  - ▶ Local police notified
  
- ▶ **Mechanism for processing gold ore at AZM - Miscellaneous Purposes Lease (MPL)**
  - ▶ Ministerial Determination 006
  - ▶ Specific MPL application, new conditions, PEPR required
  
- ▶ **Student Projects - University College**  
London, Allie Mitchell
  - ▶ Thanks everyone very much for their contribution
  - ▶ Thesis available 31<sup>st</sup> August

# Terramin - Projects

- ▶ **Bird in Hand - Mining Lease Application** does not include the processing component
  - ▶ Based around the Project Risk Assessment
  - ▶ Collated the conceptual project
  - ▶ Meeting planned for 29<sup>th</sup> August at Strath Library 12pm - 5pm - RSVP?
- ▶ **Tala Hamza**
  - ▶ Environmental Impact Study in conjunction with local Wilaya
  - ▶ Mine surface infrastructure layout drafted
  - ▶ Understanding Algerian laws on consumable storage

# Quarterly Environment Report

Katy Fechner - *Environment and Community Officer*

# Activities over Q2

- ▶ Standard environmental monitoring activities
  - ▶ Groundwater sampling
  - ▶ Angas River sampling
  - ▶ Dust monitoring
  - ▶ TSF
    - ▶ Surface
    - ▶ Seepage drains
    - ▶ Bores



# Angas Zinc Mine - Quarterly Environment Report

No non-compliances against lease Condition Outcomes for Quarter 2, 2017

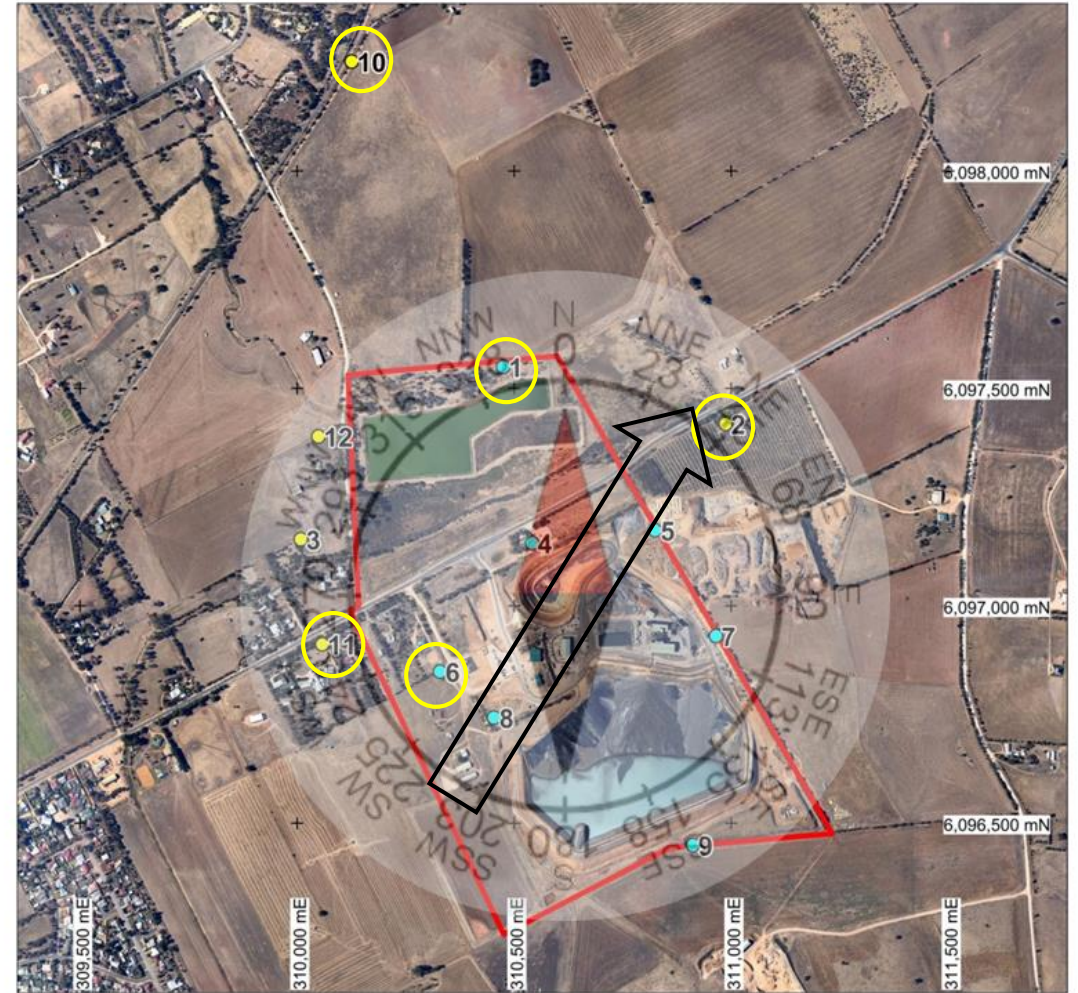
- ▶ Dust -Total Insoluble matter, leading indicator exceedances off site at Gauges 12, 3 and 2

Onsite lead dust

- ▶ Within compliance, but DDG 1 and DDG 6 exceeding the early warning indicator of 750mg/kg in June

Offsite lead dust

- ▶ DDG 2, DDG 10 and DDG 11 exceeding the early warning indicator of 150mg/kg in June
- ▶ Continue to have issues offsite regarding regional land use



# Front Entrance Vegetation - Bumper year



- ▶ Midstorey now 5-8 years old
- ▶ Acacias now 3m + and very dense
- ▶ Increased bird populations onsite
- ▶ Provides confidence for closure revegetation planning

Lignum in flower





# Closure Plan Update

- ▶ Approved yesterday! 16<sup>th</sup> August 2017
- ▶ Digital copy to be distributed to SCCC members via USB
- ▶ Hardcopy will be available at the Strathalbyn library branch
  - ▶ 7 x 3” folders
- ▶ Digital copy will be uploaded to the DPC website and the Terramin website



# Closure Fact Sheets - How should we do this together?

Mark sent through a framework

## 1. Prospect

- ▶ Mine Closure

## 2. Concern

- ▶ Ongoing responsibility & ownership

## 3. Response

- ▶ Lease condition - “Rehabilitation and Mine Closure” requires a caveat on the TSF area + 10m (69)
- ▶ Caveat is not the legal mechanism, but confirmed by Crown solicitors that Land Management Agreement on the title is.
- ▶ Final draft completed prior to surrender, implemented post-closure
- ▶ Draft completed by Terramin and Crown solicitor - Closure Plan appendix AU

- ▶ Final version required by Outcome Measurement Criteria as a Closure Criteria - p. 271

- ▶ Will reflect the understandings learnt on TSF cover system operation

## 4. Action required?

- ▶ Final version of Land Management Agreement prior to surrender of lease - can't surrender unless final approved by Govt.

# Recent progress - BIH AZM Project

- ▶ Commenced discussions with DPC, DEWNR and EPA on various aspects of the project.
- ▶ Interim independent chairperson selected by WCCC governance sub-committee
- ▶ Focus groups - traffic, noise, water, economic development, etc.
- ▶ Traffic attended by Alexandrina Council and Whittam Transport
- ▶ Wetland revegetation - sedge planting to reinstate riparian zone
- ▶ BIH Project Information Day - 25<sup>th</sup> September, Woodside Town Hall



- ▶ Groundwater Technical Reference Group and focus groups meeting - economic dev, traffic, noise, etc.

# Consultation Going Forward

- ▶ “Proposed Changes to Angas Zinc” workshop - 29<sup>th</sup> August 2017
- ▶ Strathalbyn library
- ▶ 12pm lunch followed by 3 x 1 hour sessions
  - ▶ 12-1 : lunch
  - ▶ 1-2 : Whole Project and Compliance Outcomes
  - ▶ 2.20 - 3.20 : TSF - geochemistry and closure landform changes
  - ▶ 3.40 - 4.40 : All other aspects - proposed changes to dust, noise, traffic, etc.
- ▶ Strathalbyn show - looking at a booth again
- ▶ More information:
  - ▶ Newsletters (mail drops and email list)
  - ▶ Website: [terramin.com.au](http://terramin.com.au)
  - ▶ Email: [bih@terramin.com.au](mailto:bih@terramin.com.au)
  - ▶ Phone (24 hrs): 8536 8010

Questions?