



## **MMG ENVIRONMENTAL SAMPLING PROGRAM PRESENTATION TO LOCAL COMMUNITY, FRIDAY 19 FEBRUARY 2010**

- > MMG wrote to Rosebery residents on 21 December 2009 informing them of our plans to conduct an independent environmental sampling program.
- > MMG consulted with relevant Government regulators in the formation of the testing program.
- > MMG invited residents to participate in the program.
- > Today is part of the commitment to feedback on the results of the program openly with Rosebery residents.
- > MMG will:
  - o Provide an outline of the program and how it is being conducted
  - o Answer any questions you may have about the process
- > The program is not completed so it is too early to discuss actual results, but we will tell you what else MMG is doing around this issue.

### **Why is MMG doing the testing?**

- > MMG shares the community's concerns at recent talk of heavy metal contamination in the township.
- > MMG wants to take appropriate steps to ensure we are fully informed of the facts.

### **Who is doing the testing?**

- > GHD has been engaged to undertake the sampling program.
- > GHD is one of the world's leading engineering and environmental consulting firms.
- > GHD employs more than 6000 professional and technical consultants across its global network with operations in 16 different countries.
- > GHD is a leader in the assessment, rehabilitation and management of contaminated land and has extensive experience within the mining sector.

### **What has GHD been asked to do?**

- > GHD has been asked to obtain preliminary analysis and assessment of the contamination status of key locations and residences around Rosebery.
- > If elevated levels are observed, GHD will consider possible sources/explanations for these levels and develop an appropriate action plan to address any associated risk.

### **What is GHD testing and where?**

- > GHD will analyse all samples for ten parameters:
  - o Arsenic
  - o Cadmium
  - o Copper
  - o Chromium
  - o Thallium
  - o Lead
  - o Manganese
  - o Mercury
  - o Nickel
  - o Zinc
- > GHD has been asked to focus on three key geographical areas:
  - o Public areas within the township ie schools, playgrounds and places of congregation – 17 locations
  - o Residents who nominate to have their property included in the program – 42 locations
  - o MMG Rosebery Mine owned or occupied residences in the Rosebery township – 66 locations

- > The total number of samples collected will be 780.

### **How is it being done?**

- > Collection of samples at each of the locations:
  - o Between one and seven soil samples, retrieved from a location most likely to be accessible to community members with preference to sampling ground with no or minimal vegetative cover.
  - o One surface water, water tank, storm water and/or ornamental pond sample (where possible).
- > MMG properties and private residences:
  - o Collection of samples at each MMG residence and any private residence volunteered for the sampling program:
    - Between one and seven soil samples, retrieved from a location most likely to be accessible to household members with preference to sampling ground with no or minimal vegetative cover.
    - One surface water, water tank, storm water and/or ornamental pond sample (where possible).
    - One dust sample in the ceiling cavity
    - One dust sample within the residence, aiming for the most utilized area: ie living room.
- > Additional requirements:
  - o Soil samples will be collected from the surface (0-100mm Below Ground Surface).
  - o Surface water, tank, storm water and/or tank samples will be collected where possible, and dust samples will be collected using swabs.
  - o All collection methods and sample preservation in accordance with relevant scientific guidelines and Australian Standards.
  - o GHD will analyse results against appropriate guideline limits and health investigation levels.
  - o GHD will assess each location and provide advice on the number of samples for that location.
  - o Samples will be subject to IPC mass spectrometry.

### **What else is happening?**

- > MMG is conducting a bio-monitoring program of its workforce starting 23 February.
- > The program is in addition to routine testing done by MMG on employees/contractors.
- > It was also agreed to offer the same service to families of employees or contractors who reside in Rosebery.
- > The purpose of this program is to screen for occupational exposure and to see whether there are any potential pathways for "take home" contamination.

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