

Mine Name	MineID	Operator	Activity Type	Activity Date
Jupiter Bulk Sample Pit	MI04148	Vulcan Mine Management Pty Ltd	Inspection	20/10/2020

Our Vision: **Zero Serious Harm**

Mine Record Entry

This report forms part of the Mine Record under s68 of the Coal Mining Safety and Health Act 1999. It must be placed in one or more conspicuous positions as per s69 of the Coal Mining Safety and Health Act 1999.

Note that inspection or audit activities conducted by the Mines Inspectorate are based upon sample techniques. It remains the primary responsibility of Mine Personnel to identify hazards, and risks associated with Operations and ensure those risks are at an acceptable level.

Today, Mines Inspector Paul Sullivan conducted an inspection of Jupiter Bulk Sample Pit. I was met by Electrical Engineering Manager (EEM) Mr Bob Plumpton and Site Senior Executive (SSE) Mr Michael Cavanagh. As this was my first time to site I was provided an orientation of the administration area, including the generator pad, by Mr Cavanagh and Site Superintendent Mr Matt McGregor. During this we discussed the general layout of the buildings including water / sewerage treatment, warehousing, possible power reticulation options and the Server room requirements. There was an elevated work platform (EWP) parked alongside the administration building. At my request, Mr Cavanagh described the Introduction To Site (ITS) process that was followed to ensure that this machine was both fit for purpose and that required maintenance tasks / inspections, including pre-start checklists, were being done and recorded. He stated that they use a specialist contract company (CQ Compliance) for their equipment ITS process and all documentation is scanned into the mine's record keeping data base. I commented that the ITS process would be a focus during my next inspection.

The permanent supply generator will be installed in November. The mounting slab had a designed earth mat. I later discussed with Mr Plumpton that the expectation is that the multiple earth neutral link (MEN) is in the generator and that the generator and main switchboard have signage stating this connection arrangement.

During our site inspection I was informed of the following:

- There are still some environmental compliance sections that need to be closed out before major civil and road construction begins
- The "mini" bulk test pit went well. It took 8 days to complete and they now have a better understanding of material density
- Jupiter Pit mine life plan / timeline

Administration

The close-out meeting was conducted with Mr Cavanagh, Mr McGregor and Mr Plumpton with the following points being discussed:

- Mr Plumpton is still reviewing the electrical SOPs developed by the previous EEM. He explained that he has authorised two electricians from a local company to undertake electrical work onsite. He described their levels of experience of working at other mines. Mr Plumpton intends to be a remote based EEM and his attendance onsite will be on an "as needs" basis. I remarked that the electrical reporting system must allow Mr Plumpton to be able to view the reports at regular intervals and be contactable at all times.
- It was highlighted to the group that the mine's hot work documentation, process and authorisation should incorporate the requirements of AS 1674.2 : 2007 *Safety in Welding and Allied Processes PART 2: Electrical*. I stated that the hot work procedures and processes will also be a focus during my next inspection.

The following safety notifications were tabled:

- NSW Resources Regulator Safety Bulletin *"Electric shocks in the mining industry"*– The recommendations in the bulletin are fairly generic. I emphasised that there was a focus on the prevention of electric shock incidents and that it is a regular subject at our EEM forums. We discussed these types of incidents in general terms and it was highlighted that electric shocks from welding and contact with overhead powerlines are a significant concern. We spoke of a number of electric shocks that have occurred with equipment that has electrical filtering circuits such as battery chargers, "Hytorks" bolting tools and "Caddy" welders. Some mines are developing a more in depth maintenance / inspection regime for this type of equipment.
- Qld Mine Safety Bulletin 188 " *Mobile Plant Contacting Energised Overhead Powerlines*"- We discussed the risk based approach recommended in this document and how it aligned with our discussion on the NSW Bulletin.

We spoke of the installation and operation of the (Sorterra) Dryscan material handling system in detail. Mr Cavanagh stated that he will keep me informed of its arrival and when the installation onsite commences. As the equipment utilises laser technology the mine is required, under the CMS&H Regulations 2017 section 96 "Miscellaneous" – part c (iii), to have an SOP for laser emissions. The level of risk and requirement for a Laser Safety Officer (LSO) depends on the laser classification and I have requested that this information is sent through to me.

I have requested that the incident investigation into the recent electrical incident (05 / 10 / 2020) be sent through to me. From the primary information, I had a concern that the less than adequate installation may indicate a loss of control on expected electrical standards. I was informed that this has been both acknowledged and addressed.

Paul Sullivan

Inspector of Mines