

# **MOUNT CARLTON 132kV / 22kV SUBSTATION**

## **PROJECT OVERVIEW**

Evolution Mining is the owner of the new Mount Carlton, gold, silver and copper mine, located approximately 180 km southwest of Townsville in north Queensland Australia.

The mine is Open with onsite ore processes including crushing, grinding and bulk sulphide flotation to produce a polymetallic concentrate.

The Mount Carlton processing plant will have a throughput capacity of 800,000 tonnes.

## **SCOPE OF WORK**

The scope included for the supply, erection, installation, testing and commissioning of all plant and equipment required for the 132/22kV - 12.5MVA substation to service the Mount Carlton Mine.

The scope also included:

- All civil works comprising of design and certification of all ground works, earth mat, plant foundations, bunding, fencing and access roadways.
- Design, supply and installation of manufactured steel skid base used to mount the main transformer, 132kV circuit breaker, surge arrestors and other associated equipment.
- Design, supply installation, testing and commissioning of the substation control room building and associated switchgear and control systems.

## **PROCUREMENT AND INSTALLATION**

The 12.5MVA transformer and circuit breaker was purchased by the Client, Pan Process provided all other materials, plant and equipment necessary to complete the installation.

The remote site was managed on a 14/7 roster over an 18 week period with a crew of 23 personnel.

### **Client**

Evolution Mining

### **Principal Contractor**

Pan Process

### **Total Value**

\$2.25 Million

### **Project Completion**

December 2012

### **Summary**

Complete construction of a 132/22kV 12.5MVA substation, including all civil works, provision of the control room building, installation of the main transformer and ancillary equipment onto purpose built steel skid base.

