

Fact sheet 2

MACHEnergy

Mount Pleasant Operation

ENVIRONMENT Water Management

DRONE SURVEYS

ENVIRONMENTAL MANAGEMENT

Water management is a major focus at the Mount Pleasant Operation, including water quality and storage monitoring, erosion and sediment control, water management inspections and strategies for minimising water use.

PARTNERSHIP

We work with the FYFE surveying team and their arsenal of remote controlled drones to monitor different aspects at the Mount Pleasant Operation, including catchment drains. The drones provide an aerial snapshot of the area, in addition to survey data to inform detail including cross sections and volume sediment heat maps which can be compared to a number of previous flight dates. The drone survey information is invaluable in assisting the team to determine the performance of the drainage structures and rehabilitation.

SCOPE & OBJECTIVES

We undertake regular inspections and maintenance of water management infrastructure at the Mount Pleasant Operation and continue to look for innovative ways to utilise technology to improve technical efficiency; consistency; and the health and safety of our team.

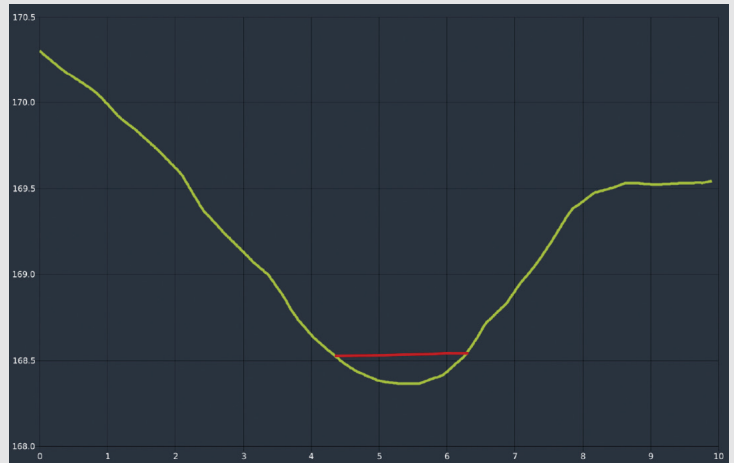


Chris Nixon, Fyfe NSW Survey Manager operating the drone.

ONGOING WATER MANAGEMENT AT MOUNT PLEASANT OPERATION

Drone fly overs of water management infrastructure are undertaken on a regular basis at the Mount Pleasant Operation. These include the toe drains on the eastern boundary of the mine, which ensure no mine affected water is discharged off site.

With the use of drones, an assessment can be made following significant rainfall events to determine any sediment that has built up in the drain and the level of freeboard that remains, enabling a fast and efficient response using available resources.



Cross sections of the water management structures are available from the drone fly overs and can be compared with previous data.



Sediment removed from a drain after a rainfall event.

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Mount Pleasant Operation

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