PRECISION • RELIABILITY • EFFICIENCY





Earthworks

Levelling the field for civil & infrastructure projects

Servicing every major resource hub in Australia, Culhig Surveying understand unique site requirements from the bottom up, with intimate knowledge of the initial site preparation requirements for large-scale earthworks.

An essential step in major developments, our professional experience in calculating volumes of cuts and embankment fills are focused on reducing waste and repurposing excavated material.



On-site Earthmoving Operations

Applications

- Land developments and subdivisions
- Site establishment for greenfield projects
- Public roads, haulage and access roads
- Rail track and ancillary works
- Tailings and water dams
- Pipeline and power line corridors
- Open pit mining

Benefits ·····

- Consistent verification to speed up handover
- Reduction in development costs
- Set clear expectations and realistic plans
- Minimise import or export of material/double handling
- Accurate calculation of earthworks volumes

To find out more please visit www.culhigsurveying.net.au



Survey Methodology

UAS, GNSS and Robotic Total Station: Using a combination of equipment, all measurements, data and information regarding material volumes that need to be shifted or removed is stored in the same database.

Excavation Approach

When undertaking an earthworks project, it's important to determine how difficult or easy the material or earth is to excavate. These categories include:

- 1. Easy: loose, free flowing soil or sand
- 2. Medium: gravel with clay
- 3. Medium - Hard: wet heavy clay, broken rock, gravel with boulders
- 4. Hard: materials requiring blasting

Depending on the geotechnical report information available, Culhig Surveying has the ability to model various layers of formation types in a project site, enabling the quantification of the volumes of each to improve transparency. Culhig Surveying has been involved in extensive earthwork redesigns as a result of this process.



Supporting Machine Control

We will categorise bulk earthworks according to

- Roadway
- Footing Drainage
- Structure
- Bridge

LET'S TALK ABOUT YOUR NEXT PROJECT

