CASE STUDY
Volumetric Analysis

DroneMate™
EVERYTHING AERIAL

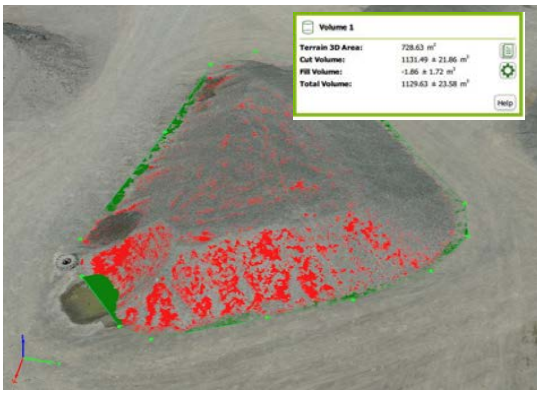
Problem

Volume calculations are complex and time consuming, yet necessary to reconcile what's there and what's not.

A lot of quarrying activities are hazardous environments; having a surveyor going through the site for several hours creates either a large hazard or a lot of downtime, and expense either way.

Approach

1. DroneMate conducts regular (monthly) surveys for clients seeking volumetric analysis.
2. Drone overflies the site usually around 60m above ground level. 6 hectares takes around 20 minutes of flight.
3. Data is used to create a 2D and 3D model and images of the site.
4. Following client discussion, the stockpile(s) are identified and cut lines incorporated.
5. Volume and other calculations are run.



Solution

Within 36hrs, the client receives a report for the stockpile(s) including the dimensions, volumes, heights, cut lines, percentage likely error and images of the site so client knows what's being measured.

Using readily available software, clients can view the site in 3D and request changes. If a regular survey, DroneMate and the client establish standard procedures for stockpile analysis.

A drone above the site for 20 minutes is significantly cheaper, safer, less disruptive and most often more accurate than a surveyor on site for several hours. DroneMate's experience in volumetric analysis helps clients to get what they want first time.

Talk to us about how we can help you understand your stockpiles and volumetric calculations more efficiently.

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