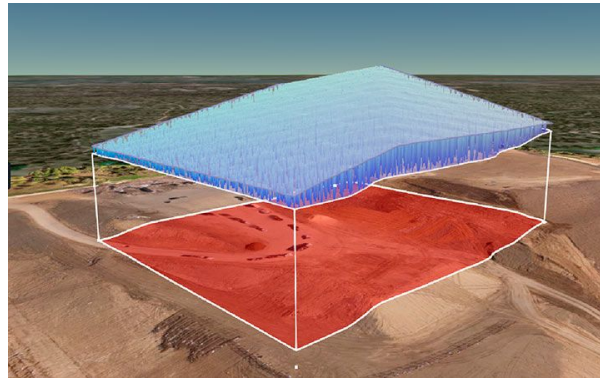




## Drone Mapping for Landfills



**Monitor sections of a landfill that are too dangerous to have an employee inspect**

**Check areas that have a risk of hazardous materials**

**Map changes in landfill areas**

Traditionally, landfill managers have used manually piloted airplanes for aerial mapping to get an overhead view of what their entire site looks like, and with the help of technology, conduct volume calculations to see exactly how much space the landfill is taking up. The same output can be created using drones to capture the images, yielding improved accuracy, quicker access to data, enhanced safety and reduced costs.

Landfill operators are seeing the operational benefits and are collecting this data with greater frequency, either monthly or quarterly. The planning that was once done annually can now be split up and done more frequently, yielding more accuracy and better site utilization than ever before.

### **Drones Help Landfill Managers Keep Real-Time Records**

Having a real-time picture of potential issues is invaluable, allowing landfill managers to quickly identify and resolve concerns. By providing regular, point-in-time snapshots of an entire site, drone mapping not only helps landfill managers identify problem areas quickly, but it also allows them to keep an accurate record of the work they are doing to keep their landfills in compliance and up to code.

### **Drone Mapping Increases Safety and Decreases Environmental Cleanup Costs**

Not only does drone mapping save landfill managers inspection time, but it has the potential to cut down on the environmental impact and cost of expensive wastewater cleanup. When rainwater sits on the surface of a landfill for more than twenty-four hours it is considered to be leachate, contaminated liquid that must be taken to a water treatment plant. The disposal process costs between 10–15 cents per gallon. This may not sound like much, but landfill sites commonly deal with one or two million gallons of leachate each month, adding up to a potential \$300,000 in routine cleanup costs.