Sanborn aerial surveys are a cost-effective and efficient solution for Volumetric Mapping / Calculation challenges. State-of-the-art acquisition and production methodologies leveraged by expert technicians allow for accurate measurement and documentation of any site at a specific point in time. In addition, aerial surveys can be carried out while avoiding inconvenient and costly interruptions of site operations.

**APPLICATIONS FOR VOLUMETRIC MAPPING**

- MINING SERVICES
- LANDFILL VOLUME
- STOCKPILE MANAGEMENT
- ENVIRONMENTAL ASSESSMENT
- SITE TOPOGRAPHY
- VOLUME CALCULATION
- RESERVOIR VOLUME
- ASPHALT PLANT INVENTORY
- VOLUME CALCULATION
- RESERVOIR VOLUME
- ASPHALT PLANT INVENTORY

Sanborn was contracted to perform volumetric calculations for fifty-two on-site piles at a facility located in the Southeast United States. This project's scope of work included flight planning, ground survey, imagery acquisition, and imagery QC required to produce planimetric grade data at 3" pixel resolution. 3D stereo compilation processes were applied in order to create comprehensive volumetric calculations along with planimetric maps of the site.

### VOLUMETRIC CALCULATION: MINE AND PLANT SITE AGGREGATE STOCKPILES

**2013 STOCKPILE DATA**

**PILE #40**
- Total Cut: 6420.105 Cubic Yards
- Total Fill: 0.000 Cubic Yards
- Area: 3221.589 Sq Yards
- Balance: 6420.105 Cubic Yards

**PILE #41**
- Total Cut: 19505.137 Cubic Yards
- Total Fill: 0.003 Cubic Yards
- Area: 4410.170 Sq Yards
- Balance: 19505.134 Cubic Yards

**2014 STOCKPILE DATA**

**PILE #40**
- Total Cut: 20842.005 Cubic Yards
- Total Fill: 0.005 Cubic Yards
- Area: 5290.842 Sq Yards
- Balance: 20842.000 Cubic Yards

**PILE #41**
- Total Cut: 16971.558 Cubic Yards
- Total Fill: 0.006 Cubic Yards
- Area: 4187.036 Sq Yards
- Balance: 16971.552 Cubic Yards