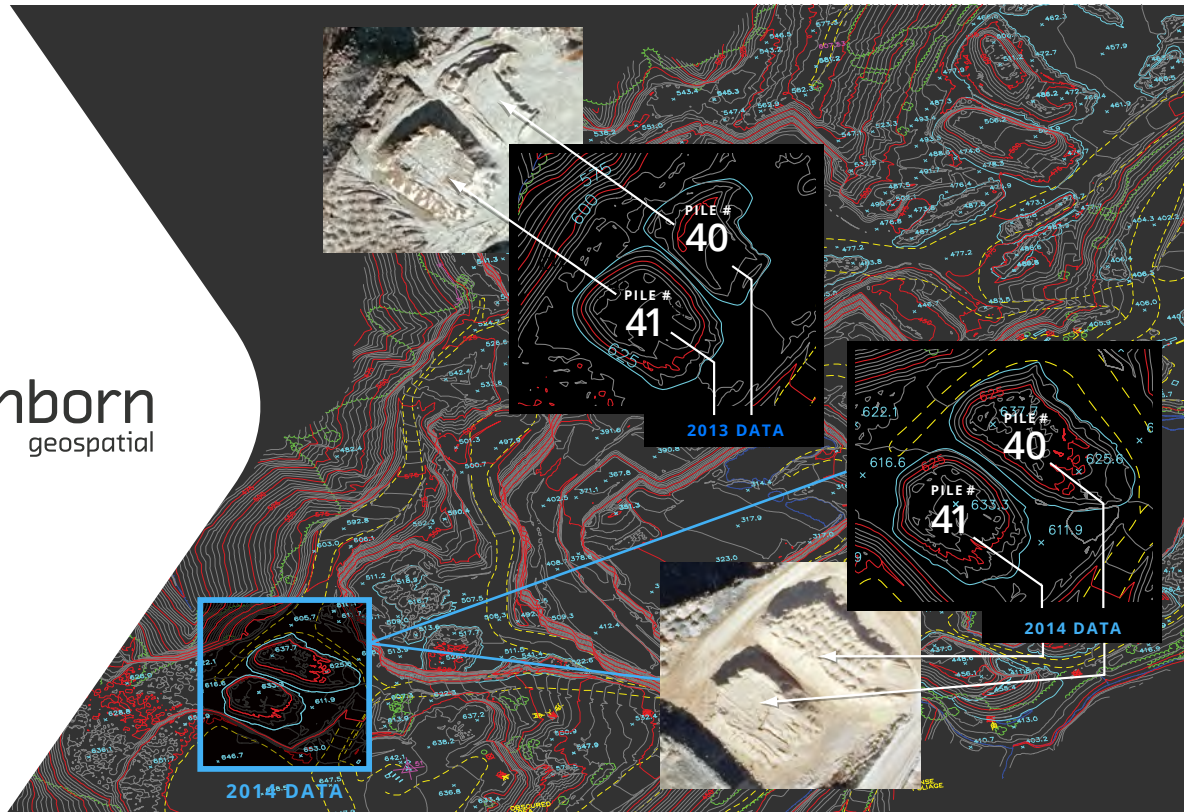
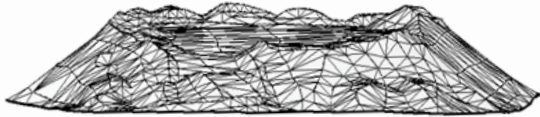
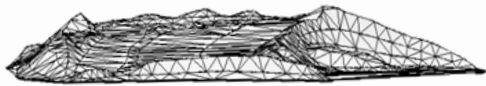
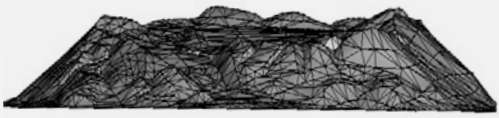




Volumetric Calculation

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 Calculation		Volumetric Calculation: Mine and Plant Site Aggregate Stockpiles	
• Mining Services • Site Topography • Landfill Volume • Density Calculation • Reservoir Volume • Environmental Assessment • Stockpile Management		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.	
STOCKPILE #41		STOCKPILE #40	
2013 PILE DATA SAMPLE 			
2014 PILE DATA SAMPLE 			
	STOCKPILE #41 - 2013 Total Cut: 19505.137 Cubic Yards Total Fill: 0.003 Cubic Yards Area: 4410.170 Sq Yards Balance: 19505.134 Cubic Yards	STOCKPILE #41 - 2014 Total Cut: 16971.558 Cubic Yards Total Fill: 0.006 Cubic Yards Area: 4187.036 Sq Yards Balance: 16971.552 Cubic Yards	STOCKPILE #40 - 2013 Total Cut: 6420.105 Cubic Yards Total Fill: 0.000 Cubic Yards Area: 3221.589 Sq Yards Balance: 6420.105 Cubic Yards
			STOCKPILE #40 - 2014 Total Cut: 20842.005 Cubic Yards Total Fill: 0.005 Cubic Yards Area: 5290.842 Sq Yards Balance: 20842.000 Cubic Yards