

Stockpile Volumetrics Report

Monthly earthwork survey-free quantity tracking for an active site, delivered while it still matters.

CLIENT	SITE	FLIGHT DATE	DELIVERED
Sample GC, Inc.	Ridgeline Commons, Ph. 2	June 24, 2026	June 27, 2026
CAPTURE	GSD	CONTROL	PROCESSING
RTK mapping drone	0.9 in/px	6 GCPs + 3 checkpoints	Pix4D, QA reviewed

What we measured

Three active stockpiles were flown at 250 ft AGL with 75/70 overlap under RTK positioning. Volumes are computed against the surfaces you specify (design base or first-flight baseline), so month-over-month changes reflect real material movement, not remeasurement noise. Checkpoint residuals for this flight are shown with each figure so you can judge the data, not take our word for it.

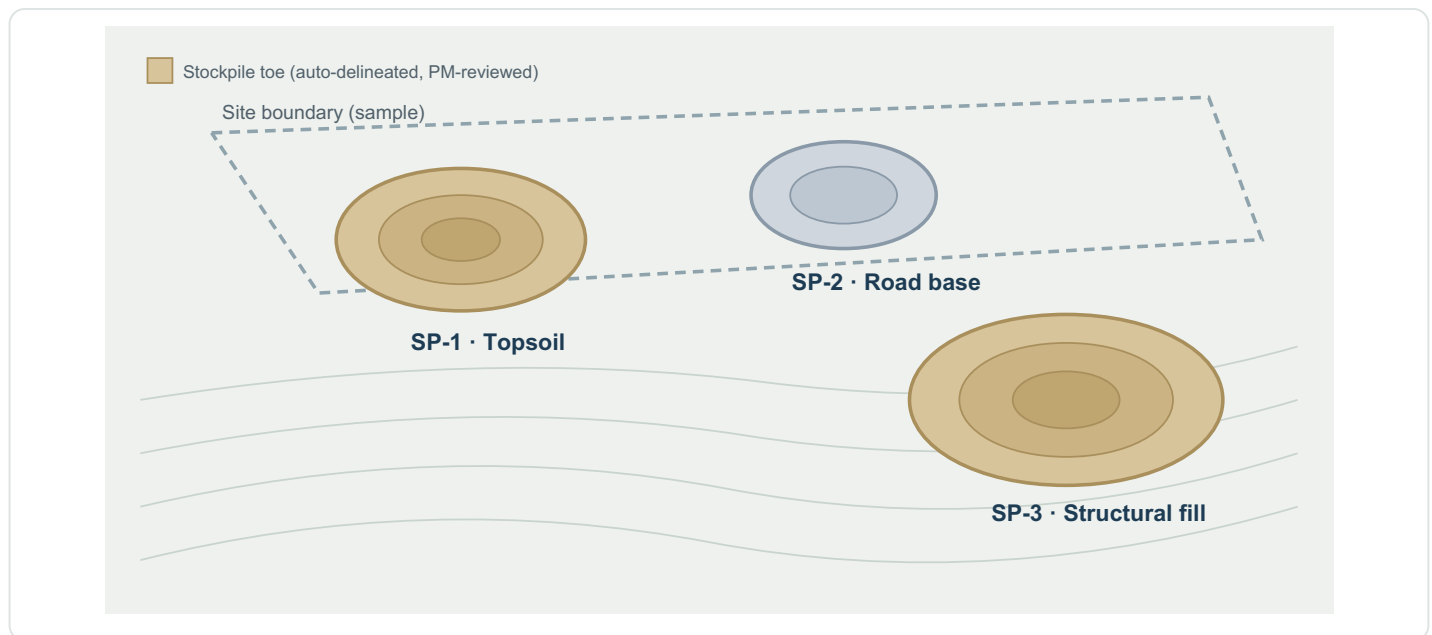


Figure 1 (sample): Orthomosaic-derived site plan with delineated stockpile toes. Actual deliverables include the full-resolution orthomosaic, surface models, and cut/fill heat map.

Measured Quantities

Stockpile	Material	Net Volume	Change vs. May	Reported Uncertainty
SP-1	Topsoil	4,820 yd ³	+610 yd ³	±2.1%
SP-2	Road base	2,140 yd ³	-380 yd ³	±2.4%
SP-3	Structural fill	7,655 yd ³	+1,120 yd ³	±1.8%

Flight quality, in plain terms

Nine ground targets were used: six as control, three held back as independent checkpoints. Checkpoint residuals on this flight averaged about a tenth of a foot. For stockpiles this size, that positions the volume uncertainty shown above, small enough to catch a short load count, tight enough to settle a quantity dispute.

How crews use this

Monthly totals feed pay applications and owner reports. The change column reconciles hauled tickets against measured movement. When a number looks off, the orthomosaic and surface model let you see why, on the day it was flown, not from memory in a meeting.

Sample note: in a live engagement this section carries the project-specific base-surface definitions, delineation notes, and any deviations flagged during QA. You also receive the data itself: orthomosaic (GeoTIFF), surfaces (DSM/DTM), point cloud, and a PDF like this one for the file.

Included with every volumetrics delivery

Full-resolution orthomosaic, DSM/DTM surfaces, classified point cloud on request, per-pile volume table with uncertainty, cut/fill heat map against your design surface, and a 15-minute review call if anything needs walking through. Turnaround 5 to 7 business days; rush available.