TAKE FLIGHT 360
AERIAL INTELLIGENCE

SAMPLE DELIVERABLE

Stockpile Inventory Report

SAMPLE YARD No. 1 · GULF COAST MATERIALS (SAMPLE DATA)

FLIGHT DATE	GSD	PILOT IN COMMAND	PLATFORM	PROCESSING
06/01/2026	0.8 IN/PX	C. MCVETY · PART 107	ENTERPRISE UAS	DRONEDEPLOY

— INVENTORY SUMMARY

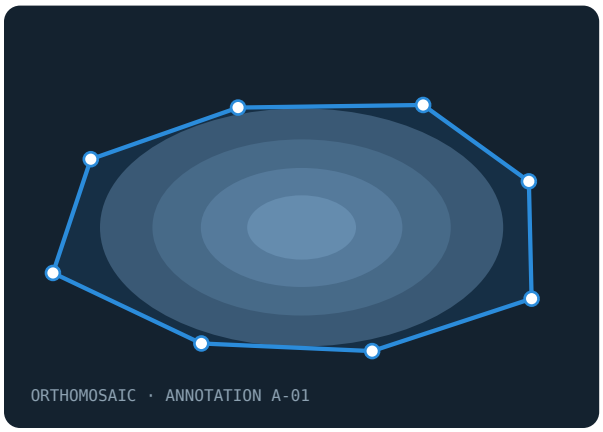
TOTAL NET VOLUME	TOTAL MASS	PILES MEASURED	CHANGE VS PRIOR FLIGHT
31,116 yd³	41,585 tons	4	−1,204 yd³

— PILE-BY-PILE RESULTS

PILE	MATERIAL	NET YD³	DENSITY	TONS	BASE PLANE	Δ PRIOR
A-01	#57 Stone	12,480	1.35 t/yd³	16,848	Lowest point	−612
A-02	Mason Sand	8,116	1.30 t/yd³	10,551	Lowest point	+302
B-01	Rip Rap	3,402	1.45 t/yd³	4,933	Mean plane	−96
B-02	Crushed Concrete	7,118	1.30 t/yd³	9,253	Lowest point	−798
TOTAL		31,116		41,585		−1,204

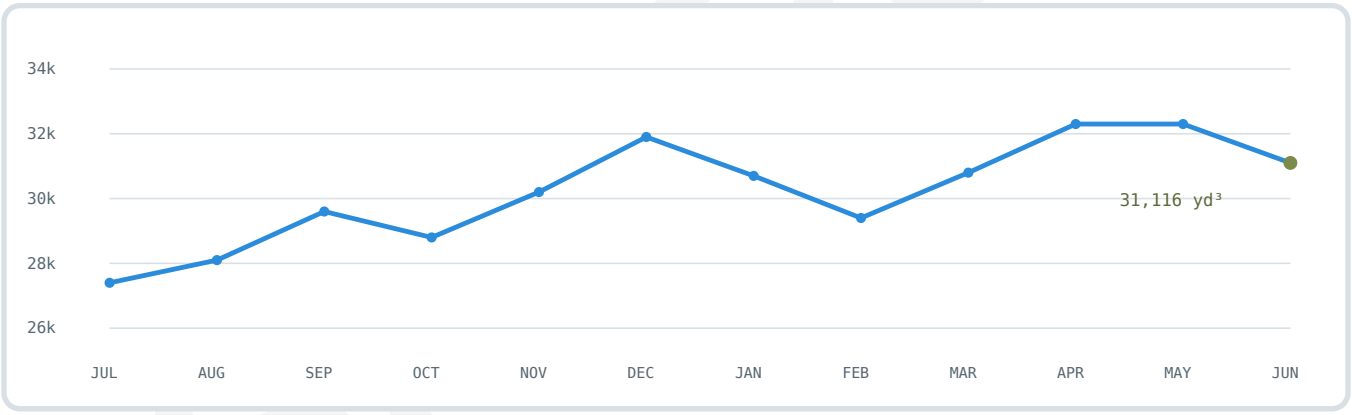
Net volume = cut − fill within each annotation boundary. Tonnage uses client-supplied material density factors.
Δ Prior compares this flight to the 05/01/2026 capture flown on the identical automated mission plan.

Pile Detail — A-01 · #57 Stone



CUT	12,508 yd³
FILL	28 yd³
NET VOLUME	12,480 yd³
MASS (1.35 t/yd³)	16,848 tons
BASE PLANE	Lowest point
2D AREA	38,420 ft²
TOE ELEVATION	31.2 ft

Yard Total — 12-Month Trend



Recurring monthly flights surface variance early: the Apr–Jun drawdown above matched ticketed sales within 1.4%, confirming inventory records — and flagged Pile B-02 for reconciliation review.

— DELIVERED WITH EVERY FLIGHT

PDF REPORT | XLSX WORKBOOK | ORTHOMOSAIC (GEOTIFF) | CAD/BIM SURFACES | SECURE SHARE LINK

Methodology & Accuracy

– CAPTURE

Every flight uses the same automated DroneDeploy mission plan — fixed altitude, 75% front and side overlap, and consistent ground reference — so flight-over-flight change reflects real material movement, not measurement noise.

– PROCESSING

Imagery is processed photogrammetrically into a georeferenced orthomosaic and digital surface model. Volume annotations are computed as cut and fill against a defined base plane (lowest point, mean plane, linear fit, or a prior/design surface), with net volume = cut − fill.

– QUALITY ASSURANCE

Each deliverable passes a QA review: reconstruction quality, annotation boundary fit, base-plane suitability per pile, and comparison against the prior flight. Anomalies are flagged in the report, never silently smoothed over.

– ACCURACY

With controlled parameters, volumetric results are typically within 1–2% of conventional survey methods and are repeatable across flights. Methodology documentation is available for your engineering or audit review.

– EVERY FLIGHT INCLUDES

- ✓ Per-pile volume report (this format)
- ✓ Excel inventory workbook
- ✓ Georeferenced orthomosaic
- ✓ Digital surface model
- ✓ Flight-over-flight comparison
- ✓ Secure online share link

Want this report for your yard?

Free site assessment. Most sites scoped from a satellite view before we ever fly. Response within 1 business day.

OWNER · OPERATOR · PILOT
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