East Altadena Resilient Land Engineering Program

Tiered Soil Remediation & Resilience Model

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1. Core Structure

This program operates as a diagnose → classify → engineer → remediate model. The $50,000 package represents entry-level remediation, with pricing scaling based on soil severity, slope risk, erosion exposure, and infrastructure complexity.

2. Soil Classification Framework

- Hydrophobicity testing
- Burn severity assessment
- Erosion and runoff grading
- Slope and drainage evaluation
- Soil compaction measurement
- Organic matter and carbon testing

3. Tiered Remediation Structure

Tier 1 – Standard Resilience ($50,000)

Includes 15–20 tons of imported engineered amendment, local soil blending, fire-smart landscaping, irrigation upgrades, and certification audit.

Imported Soil (20 tons @ $500)	$10,000
Other Costs (labor, irrigation, audit, admin)	$27,000
Total Cost	$37,000
Gross Profit	$13,000

Margin	26%

Tier 2 – Moderate Remediation ($65,000–$75,000)

Includes 25–30 tons amendment, erosion engineering, enhanced infiltration systems, and expanded certification.

Imported Soil (30 tons @ $500)	$15,000
Estimated Total Cost	$50,000 (avg)
Average Revenue	$70,000
Gross Profit	$20,000
Margin	≈ 28–30%

Tier 3 – Severe Remediation ($85,000–$120,000)

Includes 35–45 tons amendment, excavation, grading, reinforced stabilization, and advanced infrastructure engineering.

Imported Soil (40 tons @ $500)	$20,000
Estimated Total Cost	$70,000 (avg)
Average Revenue	$100,000
Gross Profit	$30,000
Margin	25–35%

4. Five-Year Projection (1,000 Homes)

Tier 1 (500 homes @ $50k)	$25,000,000
Tier 2 (300 homes @ $70k)	$21,000,000
Tier 3 (200 homes @ $100k)	$20,000,000
Total Revenue	$66,000,000
Estimated Gross Profit	~$18,500,000
Net After Overhead (5 yrs)	~$14,000,000–$15,000,000

Positioning: This is a Resilience Engineering Contractor model with a proprietary carbon-enhanced soil system. Carbon revenue remains supplemental, not foundational.