



Rebuilding Texas Soil. Conquering Heat & Drought.

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Patriot Soil Solutions USA, LLC & AquaLoch™

A breakthrough agronomic bio-mineral matrix and delivery infrastructure engineered to permanently decompact dead clay, cut irrigation water demand by **30% to 50%**, and replace obsolete chemical fertilizers across retail, commercial, and agricultural acres.

CONFIRMED 100 H-E-B STORES (EARLY 2027)

OMRI LISTED FOR ORGANIC USE

U.S. VETERAN-OWNED & OPERATED

Executive Offering Overview

Pre-Seed Syndicate Tranche \$300,000 USD (3 @ \$100K)

Minimum Pre-Seed Check **\$100,000 USD Minimum**

1st Round Share Conversion **Up to 10X ROI Valuation Credit**

Pre-Money Valuation Cap **\$6,000,000 USD (30% Disc)**

Investor Role **Silent Class B Partner (Zero Liability)**

3 Buyout Horizons (\$100K Check) **\$300K | \$1.0M-\$1.43M | \$7M-\$10M+**

-40%

WATER SLASHING

100 Stores

H-E-B GROCERY LAUNCH

75.5%

SCALED GROSS MARGIN

\$3.80

AUTOMATED UNIT COGS

Texas Heatwaves & The Failure of Legacy Lawn Chemicals

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CO-FOUNDERS ON SITE

Brotherhood, Military Service & Texas Heritage

Co-Founders Mike Forostoski (CEO, U.S. Air Force Veteran) & Rocky Garcia (Strategic Partnerships & Retail Growth) leading statewide execution.

The Broken Synthetic Chemical Model

Over 30 Million Texans are caught between extreme 100°F+ summers, municipal Stage 2 and 3 watering restrictions, and obsolete lawn chemicals that accelerate soil degradation:

- ✓ **Chemical Salt Sterilization:** Big-box synthetic fertilizers (Scotts, Miracle-Gro) force rapid top growth while their high salt index kills beneficial native soil biology.
- ✓ **Hardpan Clay Compaction:** Devoid of mycorrhizae and earthworms, Texas clay compresses into impenetrable concrete hardpan.
- ✓ **60% Water Runoff Waste:** Irrigation cannot penetrate compacted soil, running straight down street gutters and inflating homeowner water bills.
- ✓ **Chemical Burn Liability:** Applied in summer heat, synthetic granules scorch turf leaves and require constant reseeding.

The AquaLoch™ Bio-Mineral Revolution

Patriot Soil Solutions reconstructs the living subterranean ecosystem, turning scorched dirt into a thriving moisture-sponge:

- ✓ **TerraLoch™ Bio-Hydrogel:** Microscopic pharmaceutical-grade Sodium CMC hydrogel pockets capture and hold moisture at the root zone for days.
- ✓ **Active Biological Decompaction:** Inoculated fungal hyphae fracture clay hardpan, opening deep air and water channels naturally.
- ✓ **Zero Chemical Burn:** Formulated with organic earthworm castings, volcanic zeolite, biochar, and carbon biostimulants. 100% kid and pet safe.
- ✓ **One Simple Protocol:** Replaces 5 toxic chemical bags with a holistic seasonal soil recharge.

The Texas Lawn & Garden Addressable Market

Texas represents a **\$1.2+ Billion annual residential turf and landscaping market**, with millions of frustrated homeowners actively seeking heat-resilient organic solutions that comply with city watering curfews.

Proprietary Science Engineered for Extreme Drought

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TerraLoch™ Sodium CMC Bio-Hydrogel

Unlike toxic synthetic Polyacrylamides (PAM) that leave hazardous monomers in the water table, our food/pharma-grade Sodium Carboxymethylcellulose (CMC) matrix is 100% biodegradable and retains up to **400x its weight in water**, releasing moisture directly on root demand.



Living Microbial & Fungal Inoculants

Endo- and ecto-mycorrhizae expand plant root surface area by **300% to 500%**. Combined with Bacillus bacteria, they unlock tightly bound legacy phosphorus, solubilize micronutrients, and decompact hard clay without mechanical aeration.



Volcanic Zeolite & Activated Carbon

Clinoptilolite zeolite acts as an electrochemical nutrient sponge, preventing nitrogen leaching. Premium OMRI-listed biochar and organic worm castings infuse stable humus, increasing Cation Exchange Capacity (CEC) permanently.

Trade Secret Barrier to Entry

AquaLoch's compounding ratios, suspension stabilizers, and bio-polymer curing processes are protected as proprietary trade secrets, precluding commodity contract packagers from replicating field efficacy.

Environmental & Regulatory Compliance

Zero synthetic nitrates or phosphorus runoff. Exceeds EPA watershed standards, OMRI organic criteria, and Texas Department of Agriculture environmental guidelines.

Tactical Soil Reconstruction Product Portfolio



Low Crawler Castings 2-0-0

OMRI LISTED • 4 LB POUCH

Target Weak Soil | Restore Life. Premium organic fertilizer packed with biological soil enrichment, root-zone expansion microbes, and humus-rich builders.

\$25.99 Retail MSRP



Black Ops Biochar™

OMRI LISTED • GO TEXAN • 1 LB

Deploy Carbon • Rebuild Soil • Dominate Growth. High-surface-area activated biochar that locks in water, boosts microbial colonies, and permanently retains nutrients.

Ready To Deploy™ Series



Soil Strike™ & Soil Quench™

TACTICAL STIM & HYDRATION STICKS

Soil Strike (20g): High-potency biological activation.
Soil Quench (10g): Plant-based bio-hydrogel hydration stick for instant drought defense.

Impulse Point-of-Sale

Retail Packaging Advantage: High-barrier matte packaging with resealable zippers, tactical branding, OMRI badges, and clear QR education links.

VETERAN-OWNED & GO TEXAN CERTIFIED

R.A.I.D. Unit™ — Revolutionary Ag Injection Delivery

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One Machine. One Pass. Maximum Impact.

Our patent-pending **R.A.I.D. Unit™** tractor-drawn agricultural rig injects AquaLoch soil mineral mixtures and TerraLoch hydrogel precisely where it matters: **directly into the root zone beneath the surface.**

- ✓ **Zero Evaporation Waste:** Delivers nutrients and moisture retention beneath the sun-baked crust, cutting water loss by over 50%.
- ✓ **Customizable Across All Crops:** Row crops (corn, cotton, wheat), pasture & forage, orchards & vineyards, and livestock grazing lands.
- ✓ **Multi-Acre Speed:** Covers large acreage faster and smarter with zero soil erosion or disruption to existing sod.
- ✓ **B2B Enterprise Revenue:** Generates high-margin custom application fees, equipment licensing, and recurring tote/drum bulk mineral sales.

Ag Mineral Mixture Bulk Formulations:

Supplied in 50-lb ag bags, 1-ton bulk super sacks, and 275-gallon liquid totes for commercial farms and ranches.

Helping Chile Grow Again — Global Ag Resilience

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CL The Chile Partnership Initiative

Chile is currently experiencing one of the most severe megadroughts in South American history, threatening regional fruit exports, vineyards, and family farms. AquaLoch's bio-mineral technology and R.A.I.D. Unit injection system provide the exact breakthrough required to rebuild dehydrated soil.

Active Multilateral Grant Applications:

Collaborating with agricultural NGOs, development agencies, and governmental bodies to deploy AquaLoch mineral blends and R.A.I.D. units across drought-stricken Chilean valleys.

Key Humanitarian & Agronomic Goals:

- ✓ **Save Water:** Cut vineyard and crop irrigation needs by 30%–50% in arid mountain valleys.
- ✓ **Restore Soil Biology:** Recondition mineralized dead topsoil into living humus.
- ✓ **Feed Communities:** Protect Chilean food security, farmer livelihoods, and rural economic stability.
- ✓ **Global Carbon & ESG Credits:** Large-scale biochar soil sequestration creating verifiable carbon credits.

The Multi-Billion Dollar Ag Horizon:

Validates that AquaLoch is not merely a retail lawn care brand—it is a globally scalable AgTech enterprise capable of unlocking international licensing and multilateral grant capital.

Proven Field Results Across Texas Turf & Agriculture

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LIVESTOCK PASTURE TRIAL • BOBBY LEDOM (HARTFORD, KS)

80 Treated Acres vs 80 Untreated • +779 lbs/acre Dry Matter Gain (+62,320 lbs Forage)

Carrying capacity increased by +23 to +26 additional grazing steers • Optimal ~20% Crude Protein & low NDF/ADF.

NET PROFIT GENERATED
+\$24 / Acre (

Proven Field Results Across Texas Turf & Agriculture

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,920 Profit)



Parks Residential Lawn

14-DAY RAPID TURNAROUND

Severe heat-stressed Bermuda turf with widespread brown patch was transformed into a deep green, uniform carpet in 14 days with 40% reduced irrigation.



Moore Oats Commercial Ag

25% SYNTHETIC FERT CUT

A 25% reduction in synthetic fertilizer alongside AquaLoch produced higher bushel yield, deeper root penetration, and richer soil tilth than untreated control acreage.



Ornamental Trees (Crepe Myrtle)

SEVERE DROUGHT REVIVAL

Chlorotic, dying mature crepe myrtle experiencing severe summer leaf drop fully restored canopy density and vibrant flowering within weeks of bio-hydrogel application.

Ranch Pasture Trials: Bobby Ledom and Wilfred Lehman cattle grazing trials demonstrated marked increases in drought forage biomass and cattle stocking capacity per acre.

**Zero
Herbicide
Burn**

Omnichannel Distribution: 100 H-E-B Stores & Nurseries

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Confirmed Contract

100 H-E-B Stores

Launching Early 2027. Instant brand authority across Texas (\$38B+ revenue chain). High impulse velocity at \$25.99 MSRP.

Rollout: February 2027

High-Margin Wholesale

Premier Nursery Network

H-E-B drives bulk buyers to nurseries. Progressive wholesale tiers:

- Tier 1 (1/4 Pallet): **40% – 42% Margin**
- Tier 2 (1/2 Pallet): **46% – 48% Margin**
- Tier 3 (Full Pallet): **52% – 55%+ Margin**

Turnkey End-Caps & Geo-Targeted Ads

B2B Enterprise

Commercial HOAs & Parks

Active enterprise pilots in San Antonio master-planned communities, municipal park departments, and sports turf using bulk drums and totes.

Multi-Year Recurring Service Contracts

HIGH-MARGIN WHOLESALE

Premier Nursery Network

Independent garden centers capture homeowners needing whole-yard solutions. In-store displays and digital marketing drive high-ticket pallet commitments earning nurseries **40% to 55%+ gross margins**.

Quarter, Half & Full Pallet Kits

B2B ENTERPRISE

Commercial HOAs & Parks

Active commercial partnerships with **FirstService Residential** in San Antonio master-planned communities, municipal golf courses, and sports fields using 55-gallon drums and liquid hydrogel rigs.

Multi-Year Recurring Contracts

The Flywheel Effect

H-E-B grocery placement acts as a massive statewide billboard. Homeowners discover AquaLoch during weekly grocery trips, and larger property owners seeking full lawn reconditioning are directed to Authorized Nursery Partners and commercial applicators for pallet-tier volume.

Automated Texas Plant & 75.5% Scaled Unit Economics

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CO-FOUNDERS ON SITE

Brotherhood, Military Service & Texas Heritage

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H-E-B Retail Unit Economics (\$25.99 MSRP)

COST / PRICE METRIC	AMOUNT (USD)	MARGIN %
Consumer Retail MSRP	\$25.99	—
H-E-B Wholesale Purchase Price	\$15.50	40.4% (Retailer)
Current Manual Compounding COGS	\$5.85	62.3%
Automated Scaled Plant COGS	\$3.80	-35% Cost Cut
AquaLoch Scaled Gross Profit	\$11.70 / unit	75.5% Gross Margin

Automated Manufacturing Equipment

Funding finances a high-throughput automated dry/wet blending line and high-speed vertical form-fill-seal (VFFS) bagging equipment:

- ✓ Capacity: 12,000+ units per 8-hour shift (easily covers 100 to 340+ H-E-B stores).
- ✓ Bulk raw ingredient purchasing cuts Sodium CMC and volcanic mineral costs by 32%.
- ✓ Direct robotic palletizing eliminates manual labor bottlenecks.

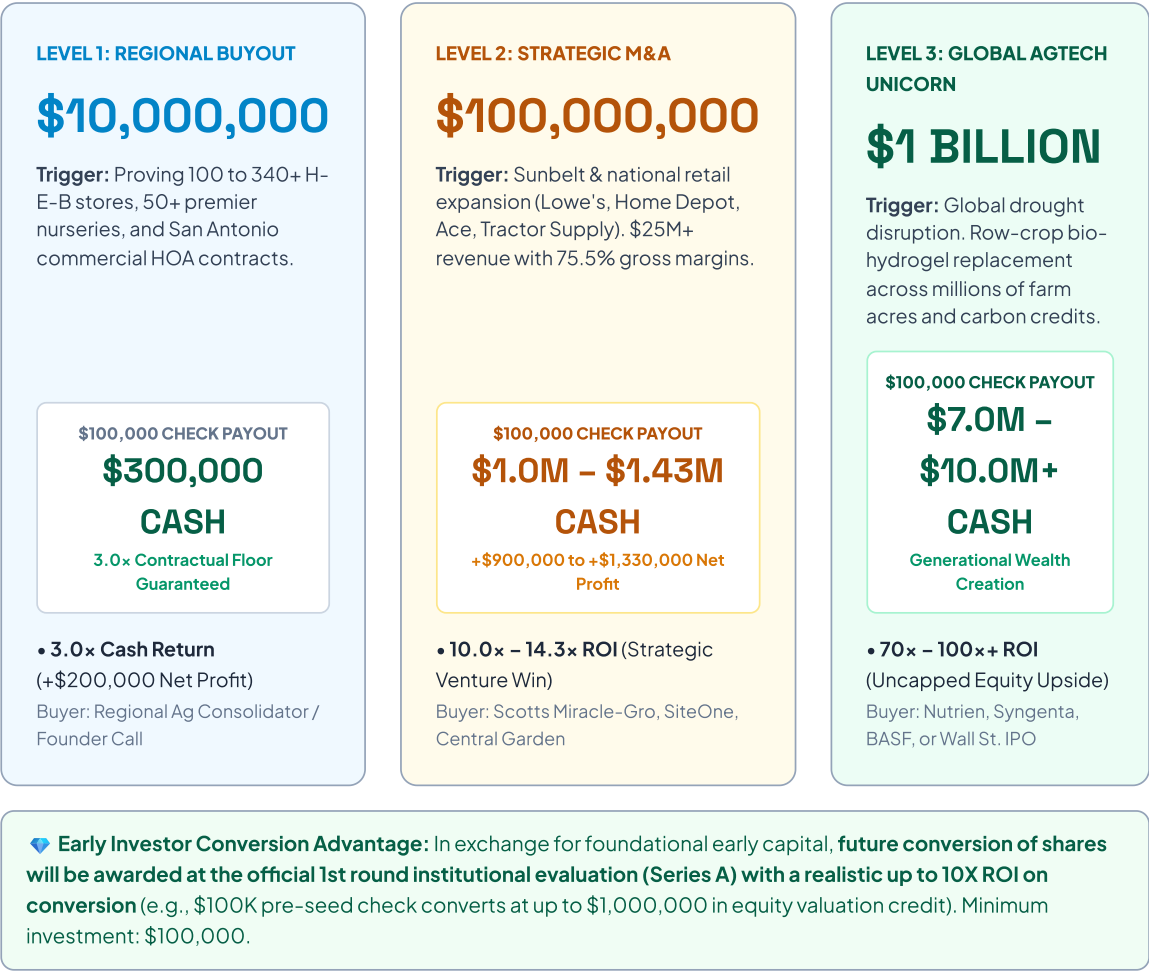
Annual Production Capacity:

Over 2.5 Million units/year from the central Texas compounding facility, providing massive operating leverage without secondary facility expansion.

 The 3 Horizons of Enterprise Buyout
(\$100,000 Check Perspective)

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Designed to provide early pre-seed angel investors (\$100,000 check) with guaranteed downside protection alongside venture-scale liquidity:



Capital Deployment & 3-Year Pro Forma Financials

Use of Pre-Seed Proceeds (\$300,000 Tranche)

STRATEGIC ALLOCATION	PRE-SEED (\$300K)	FULL SCALE (\$1.25M)
H-E-B 100-Store Inventory & Raw Materials	\$120,000 (40%)	\$450,000 (36%)
Automated Plant Machinery & Tooling	\$80,000 (27%)	\$400,000 (32%)
Nursery Displays & Geo-Fenced Digital Ads	\$60,000 (20%)	\$250,000 (20%)
Operating Working Capital & Reserves	\$40,000 (13%)	\$150,000 (12%)
Total Capital Deployed	\$300,000	\$1,250,000

3-Year Pro Forma Growth Model

FISCAL METRIC	YEAR 1 (2027)	YEAR 2 (2028)	YEAR 3 (2029)
Active H-E-B Stores	100 Stores	250 Stores	340+ (Full State)
Nursery & Commercial Accounts	25 Partners	80 Partners	180 Partners
Gross Revenue	\$4,850,000	\$14,200,000	\$34,500,000
Gross Margin (Blended)	72.0%	74.5%	76.2%
EBITDA	\$1,450,000	\$5,250,000	\$13,800,000

Executive Leadership & Seed Angel Term Summary



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Mike Forostoski
FOUNDER & CHIEF EXECUTIVE OFFICER
• U.S. MILITARY VETERAN

Agronomic researcher and inventor of AquaLoch's bio-retention matrices. Leads compounding, manufacturing operations, trade secret chemistry, and R.A.I.D. Unit engineering.

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Rocky Garcia
CO-FOUNDER & STRATEGIC
PARTNERSHIPS

Spearheads retail channel development, nursery network expansion, and commercial HOA contracts across Texas. Architect of the confirmed 100-store H-E-B retail placement.

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• San Antonio, Texas

Summary of Pre-Seed Angel Terms (Minimum \$100,000 Check)

MIN. TICKET SIZE	1ST ROUND CONVERSION	VALUATION CAP / DISC.	LEVEL 1 BUYOUT FLOOR
\$100,000	Up to 10X ROI	\$6.0M (30% Disc)	3.0× Floor (\$300K)

