

Sustainable Lithium Extraction

"The urgent need for cost-effective and sustainable lithium is transforming the industry landscape."

Scott Taylor CEO Lithos



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PURPOSE

Sustainable Lithium Production without Evaporation Ponds



Demand for lithium forecasted to grow 4.5x by 2035*

EVAPORATION PONDS

Existing production method employs plastic-lined pits stretching for miles



Ponds consume the equivalent of more than 1 million tons of water and chemicals per year

PROBLEM

Chemical-Intensive Evaporation Ponds: The Unsustainable Bottleneck in Lithium Production

UNSUSTAINABLE & INEFFICIENT EXTRACTION

- ➔ 40%+ OF RESOURCE LOST
- ➔ CHEMICALLY INTENSIVE
- ➔ SLOW (9+ MONTHS)
- ➔ CONTAMINATES GROUNDWATER

Environmental regulators have instructed producers to cease using evaporation ponds and an alternative solution is desperately needed

KEY INVESTMENT HIGHLIGHTS

AcQUA™ technology is patent-pending and field-proven at Industrial Scale

- Dramatically increases lithium production
- AcQUA™ pre-treatment technology for brines that eliminates the need for evaporation ponds, reagents and fresh water

Major Market Drivers Accelerating Demand for AcQUA™

- Global Lithium demand soaring
- Government pressure to replace evaporation ponds
- Only 1% of current lithium production comes from US

Strong Sales Pipeline with 6 Global “Tier 1” Customers

- Multiple paid customer projects ongoing at test facility in Alabama
- AcQUA™ boosts production at existing mines

Robust Revenue Outlook Projected in 2024

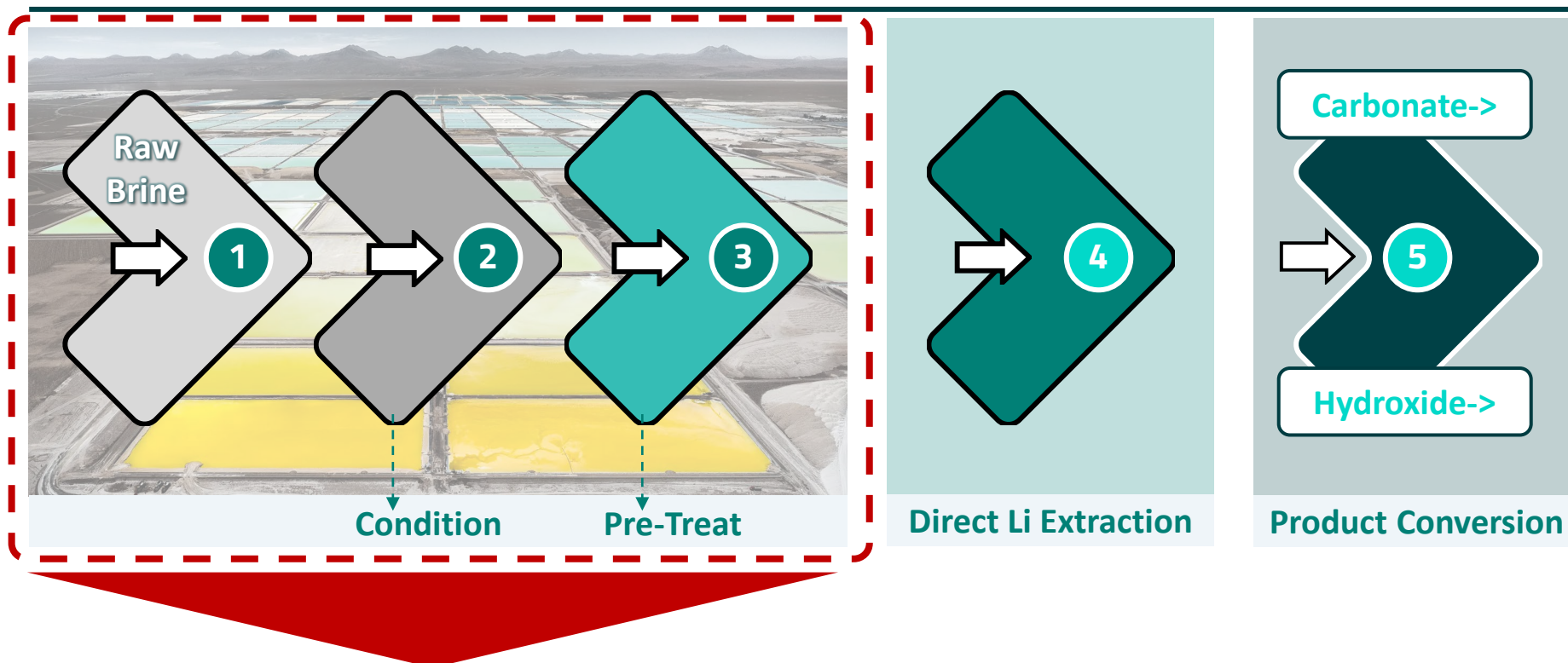
- Conversion of “pilot customers” to commercial deployment
- Strong sales funnel of prospective customer

Strong and Experienced Management Team

- Track record of successfully developing and commercializing technology based industrial solutions

AcQUA™ ENABLES DOWNSTREAM EFFICIENCY

Lithium Brine Extraction Value Chain



- **The upstream pre-treatment efficiency represent the key bottleneck to the commercial viability of any DLE technology used downstream**
 - Company commercial focus is on pre-treatment to make any downstream process work more efficiently
 - Evaporation ponds are prohibited in the US and being phased out by the regulator in Chile
- **AcQUA™ technology solves the pre-treatment challenge for any project with proven rejection of 100% of impurities (HBO_3 , SO_4 , Ca) and over 99% of Magnesium from supersaturated brines**

AcQUA™ MULTIFACETED VALUE PROP FOR CUSTOMERS

For Existing South American Producers:

- **Higher Yields** – Recovery Factor of over 90% can **boost yields ~2x**
- **Increased Production Volumes** – Higher re-injection rates projected to **increase production volumes 3x+**
- **Shorter Lead Times** – Projected processing time cut from 9-12 months to **under 2 weeks**
- **Reduced OpEx** – Operating expenses are expected to be lower by **eliminating the need for freshwater and chemicals**

For Aspiring US Producers:

- **AcQUA™ enables access to “trapped” Li resources** where evaporation ponds cannot be permitted

AcQUA™ Field Module for Brines

Manufactured in USA: ensures quality & rapid delivery



Expected Customer Payback Period:
<12 Months¹

MARKET SIZE

Global production process transformation away from evaporation ponds drives massive addressable market growth for  **LITHOS**

TAM – Current (2024):

\$14 Billion

350,000-ton LCE / year cumulative current lithium brine productions

TAM – Projected (2035):

\$70 Billion

Additional 3.3 million-ton LCE / year requirement by 2035¹

TIER 1 – MOST URGENT IMMEDIATE NEED

TIER 2 – ACTIVE PILOTS



UPCOMING MILESTONES

LiTHOS began manufacturing multiple demo scale systems in Q1 2024. Large and growing executable sales pipeline with customers A-F

Customer Status	Q1 2024	Q2 2024	Q3 2024	Q4 2024	Q1 2025	Beyond
Testing	Customer A Customer B	B C D	C D	E F		
Purchase Order		A B	C D			
Demo System Manufacturing	A B	A B	A B C	C	C D	
Field Deployment				A B	C	
Recurring Sticky Revenue				A B	A B	C D
Scale Up					A	A - F

EXECUTIVE MANAGEMENT TEAM



Scott Taylor / CEO, Director Scott has over 20 years of direct experience spanning finance, energy, mining, defense, and civil engineering industries. Scott has scoped, built and sold over US\$250 million in technical solutions. Scott graduated from Franklin College (Lugano) Switzerland with BS in Finance 2002.



Christopher A. Green Ph.D. / CTO Chris holds a PhD in Physical Chemistry from Salford/UMIST and a MS in Petroleum Engineering from the Colorado School of Mines. Chris has 28 years professional experience in the energy industry. Chris has worked internationally managing interdisciplinary teams spanning chemical- and reservoir engineering project management competency.



Joe Fuqua / COO Joe brings over 20 years of experience across technology, entrepreneurship, and investment funds to LiTHOS. He holds a BA Computer Science from Brown university and an MBA from UCLA Anderson School of Management.



Dino LaCapra / Chief Development Officer Dino has secured more than US\$2 billion in contracts implementing turn-key services focused on multi-year private and public partnerships to build, operate, and maintain integrated homeland security and renewable energy projects. He graduated with a BS in International Business from Barry University and holds an MBA from Georgetown University.



Michael Westlake / President, Director Michael has over 20 years of experience managing complex projects, predominantly in remote locations of the Canadian Arctic which come with major logistical and technical challenges. He holds a BS in Chemistry and Environmental Studies from the University of Victoria and a MS from the University of Edinburgh in Environmental Change and Sustainability.



Gabe Segal / VP – Strategy & Finance Gabe has over 10 years of experience in private equity, investment banking, and consulting, specializing in energy investments. He has actively participated in the underwriting and due diligence of numerous investments, both in advisory and principal investor roles. Mr. Segal holds a BS and a MS in Industrial Engineering from the University of Wisconsin-Madison.



CONTACT

- Online: www.lithostechonology.com
- Phone: 1-877-548-4671
- Email: info@lithostechonology.com