**TSX-V: LBY** 

# Liberty One Lithium

**A Global Resource Revolution** 

**Unearthing High Grade Brine Lithium Assets** 

**Confidential 2017** 

# Legal

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## **Profile**

**Liberty One Lithium Corp.** is an emerging exploration company focused on the acquisition and development of global high grade lithium brine deposits destined for use by American business interests. Liberty One believes that access to strategic resources are key to a robust national energy strategy to protect domestic economic stability.

#### Liberty One Lithium Corp

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#### Exchange: TSX-V Symbol: LBY CUSIP: 53116A107 ISIN: CA53116A1075 Fiscal Year End: Dec 31

#### **Professional Advisors**

Legal Counsel (Canada): McMillan LLP Legal Counsel (USA): Greenberg Traurig, LLP Auditors: Dale Matheson Carr-Hilton Labonte LLP. Transfer Agent: (Canada) CST Trust Company Transfer Agent: (USA) American Stock & Trust Company, LLC.





## Demand

- Price of lithium carbonate is 47% higher than last year's average.
- Lithium price is going "parabolic" (per: industry analyst Chris Berry) Ο
- Lithium staking rush has been limited predominately to Nevada (Silver Peak/Clayton Valley), where Ο North America's only lithium mine is in operation (since 1960s).





**Bloomberg New Energy Finance** 



## **Driving New Opportunities**

A decrease in lithium grades and resources from Nevada's Clayton Valley is driving North American exploration for lithium brine reserves.

 How many new lithium mines will the state of Nevada permit as water consumption becomes problematic with more than one lithium mine in operation at the Clayton Valley?



- As Nevada is the most highly regulated state for water use in the US, any consumption of water in the Clayton Valley area requires valid water rights to meet state regulations
- Clayton Valley basin is currently "over-appropriated," with Albemarle's Silver Peak Mine being the largest consumer of water in the area

Any new application for water use in an over-appropriated basin would be carefully reviewed by the Nevada Division of Water Resources, and it is uncertain if any new applications would be granted.



## **Paradox North Project Overview**

**Liberty One Lithium's** initial prospect is the Paradox North Property, located in the Paradox Basin of Grand County, southeastern Utah, just west of the City of Moab.

- The project is 223 placer claims in one contiguous group.
- An historic source of high grade lithium-bearing oilfield brines.
- Many wells drilled for oil and gas (and potash) penetrated brine-rich Paleozoic sediments.
- The brines were found to be super saturated (40% minerals, 60% water) in many salts, including lithium, magnesium, boron and potash.
- The brines range from 81 to 1,700 ppm Lithium.
   However, only a few of the wells' brines were tested for lithium, so the picture is still incomplete.
- The region is a mining-friendly jurisdiction without complex water rights issues as seen in Nevada's Clayton Valley.





### **Oilfield Lithium Brines**

Brines in Utah were discovered within historical oil producing formations that produced high grade mineralized brines as a byproduct.

These highly Saturated brines are under significant pressure, decreasing the need for additional costly exploratory wells.

#### **Benefits:**

- Re-entry of existing high-cost wells.
- o Extensive historical database from previous work.
- Massive available infrastructure related to petroleum based operations.
- No pumping necessary. Generally, heavily mineralized brine flows freely.
- High grade undeveloped land.
- Clayton valley has seen a draw-down in brine grades over the 50+ years of operations.
- o Initial discussions on water rights positive.
- o Extensive at-depth historical lithium brines sampling data.



Liberty One Lithium Brine 233 Placer Claims (4460 Acres), Grand Country, Utah

## **Paradox Basin Potential**

### PARADOX BASIN, UTAH

- During oil and gas exploration in the 1960s, a brine well was discovered that produced 50,000 barrels of brine per/day.
- This brine well was tested showing 1700 ppm Lithium
- Lithium: 1,700 ppm equal to 0.17% or 3.4 lb/ton
- Within 1km of the brine well and concurrent with a zone determined by the USGS to contain greater than 40% Total Dissolved Solids in oil field brines.
- Potential to produce 8,786 tons Li2C03 per year\*
- 2016 Prices Range from \$7,125-\$21,509/t\*\*



## **Property Details**

- The Liberty One Utah property consists of 233 minerals claims (approx. 4000 acres).
- Covers an area with historic fluid analysis from Oil and Gas drill holes ranging from 81 to 1,700 ppm lithium in saturated minerals brine.
- The brine was discovered in the 1960s when over pressurized oil exploration wells encountered blowouts upon drilling.
- The property area is a semi-desert region with an average of over 300 days of sunshine per year, existing infrastructure, and year-round access to road and rail.
- The Liberty One Lithium Property in Utah is located approximately four kilometres northwest of Intrepid Potash's Cane Creek Operation and is contiguous to the north of Voltaic Minerals Corp.'s "Green Energy" lithium property.
- As disclosed in Intrepid Potash's 2015 Annual Report, the Cane Creek Operation produced 93,000 tonnes of potash in 2015 through solution mining and solar evaporation ponds.
- The Property is approximately 750 miles east of Tesla's Gigafactory in Nevada.



### Historic Potential Paradox Basin: Its Time to Prove the Data

- **Sodium 28,500 ppm** equal to 2.85% or 57 lb/ton
- Potassium 47,000 ppm equal to 4.70% or 94 lb/ton
- Lithium 1,700 ppm equal to 0.17% or 3.4 lb/ton
- o Calcium 46,700 ppm equal to 4.67% or 93.4 lb/ton
- Magnesium 43,600 ppm equal to 4.36% or 87.2 lb/ton
- $\circ$  96,000 tons of sodium
- 158,000 tons of potassium (302,400 tons of KCl)
- **5,750 tons of lithium (30,535 tons of Li2CO3)**
- 157,000 tons of calcium
- 147,000 tons of magnesium (576,450 tons of MgCl2)



The Company is not treating historical estimates as current mineral resources or reserves. The Company has not undertaken anv independent investigation of the drill results or resource estimates nor has it independently analyzed the results of the previous exploration work in order to verify the resources. The Company believes that these historical results and estimates provide a conceptual indication of the potential of mineral occurrences within the project and are relevant to ongoing exploration.



## **A Global Perspective - Brine Extraction Benefits**

Current Extraction Methods		
	Salt Lake Brines	Hard Rock Minerals
Location	Concentrated in South America (Lithium Triangle)	Largest resource is in Western Australia
Process	<ul> <li>Brine pumped into giant pools. Evaporation concentrates lithium over 18 months.</li> <li>By-products removed.</li> <li>Lithium precipitated out.</li> </ul>	<ul> <li>Plant recovers and upgrades spodumene.</li> <li>Mineral converted into carbonate after 1100°C calcination process.</li> </ul>
Advantages	Low OPEX	Low CAPEX
Disadvantages	<ul> <li>Not scalable</li> <li>Time consuming</li> <li>Low recoveries</li> <li>Weather dependent</li> </ul>	<ul> <li>High OPEX from energy consumption and mining costs.</li> <li>Very few high grade deposits globally.</li> </ul>



## **Global Lithium Brines**

Lithium Concentrations at Leading global production regions\*

Project	Lithium ppm
Paradox Basin, Utah	1700 ppm
Atacama, Chile	1400 ppm
Uyuni, Bolivia	532 ppm
Hombre Muerto, Argentina	520 ppm
Silver Peak, Nevada	200 ppm

- Historic drilling in Paradox Basin revealed extremely high lithium grades of 1,700 mg/L, with brines reaching the surface under the natural pressure of the aquifer (i.e. without pumps).
- This lithium grade would be 6 times more than one of Albemarle's best past wells in Nevada (~310 mg/L) and 17 times more than Pure Energy's average resource grade (~102 mg/L).



### Management

#### Bradley Hoeppner, President & Director



Mr. Hoeppner has participated in a variety of roles within the public markets sector and with a number of publicly listed companies for over 10 years. During this time, he has been instrumental in the successful closing of more than 100 million dollars of public company financing's. Bradley has played a key role in restructuring public companies and has been a director of King's Bay Gold Corp., a TSX-V listed company focused on the exploration of cobalt and other specialty and rare minerals in eastern Canada, principally slated for commercial activities within the burgeoning technology sector (February 2016 to present). Bradley is also a director of Berkwood Resources Corp., a TSX-V listed company involved in the exploration for graphite in Quebec. Previously, he enjoyed a period of service with a Member of Canada's Parliament, and a turn spent successfully speculating in the real estate market.

#### Morgan Tincher, Interim CFO & Director



Mr. Tincher brings +20 years of corporate finance experience and +12 years of finance advisory expertise in the technology, entertainment and natural resources sectors with a focus on public and private financing, corporate governance, merger structure, acquisitions and IPOs. Mr. Tincher's responsibilities include all financial operations management, stakeholder engagement, compliance and regulatory matters. Prior to Liberty One Lithium Corp., he served as CEO, President and Director of Oculus Ventures Corporation (2012 to 2014) through reverse merger acquisition and capitalization (\$20MM) of Toronto based Slyce Inc. (now Pounce Technologies Inc.). During the same period, Mr. Tincher assisted in the capitalization (\$10MM) of Trace Intelligent Systems of Venice, CA, which led to the acquisition of Draganfly Innovations Inc. Mr. Tincher served (2007-2011) as VP Finance at Probe Resources Ltd. (now Rooster Energy Ltd.) assisting in raising >\$50MM in capital via both debt and equity offerings. Mr. Tincher also served as a Director of Inform Resources Corp. (September 2013 to October 2015) and currently serves on the boards of two privately held companies.



# Paradox North Project Work Plan

#### **Phase One:**

- A number of seismic lines have been run over the Cane Creek anticline over the past several decades. Much of the data is old. Some if it may be usable if reprocessed. Detailed 3D seismic survey would be required for siting an exploration well due to the complexity of the geology.
- An airborne ZTEM (Z-Axis Tipper Electromagnetic) survey, to be followed by a ground MT (magnetotelluric) survey is recommended.

Airborne ZTEM Survey, with interpretation: CAD\$120,000 Ground MT Survey, with interpretation: CAD\$ 85,000 **Total: CAD\$205,000** 

### **Phase Two:**

Exploratory well at a location based on survey outcomes:

- Current industry estimate for drilling 6,000' (1,830 meter) vertical well: Approx. CAD\$2MM
- Includes permitting, drilling, testing and geological interpretation.



# Summary

- o Initial Project in Utah's Paradox Basin: historic source of high grade lithium-bearing oilfield brines.
- Potential to produce large volumes of brine on-site.
- Straightforward two-phase workplan offers cost-effective ability to prove resource data.
- Decrease in lithium grades and resources, plus tightening water restrictions at Nevada's Clayton Valley is prompting juniors to look elsewhere in North America for lithium brine reserves.
- Brine in Utah appears to meet South American concentrations.
- Exploration & production-friendly jurisdiction (permits potash and extensive uranium mining)
- Previous oil & gas exploration offers historic data and attractive re-entry economics utilizing existing exploration wells.
- No complex water issues. Numerous exploratory wells in-situ offer excellent re-entry options.
- Exceptional climate for evaporation purposes, existing infrastructure and year-round access to road and rail.
- o 750 miles west of Tesla's 'gigafactory' battery production facility.
- o Experienced management, solid business and financial leadership.



## **Contact Us**

Dedicated to a robust national energy strategy to protect domestic economic stability...

We are...



### www.l1lithium.com

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