# CLEAN HIGH PURITY LITHIUM

Noosa Virtual Conference

Steve Promnitz - Managing Director 15 July 2020

RESOURCES

CLEANER LITHIUM

ELECTRIC WORLD

ASX:LKE FRA:LK1 OTC:LLKKF





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#### **General Statement and Cautionary Statement**

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#### **Forward Looking Statements**

Certain statements contained in this presentation, including information as to the future financial performance of the projects, are forward-looking statements. Such forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Lake Resources N.L. are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies: involve known and unknown risks and uncertainties and other factors that could cause actual events or results to differ materially from estimated or anticipated events or results, expressed or implied, reflected in such forward-looking statements; and may include, among other things, statements regarding targets, estimates and assumptions in respect of production and prices, operating costs and results, capital expenditures, reserves and resources and anticipated flow rates, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions and affected by the risk of further changes in government regulations, policies or legislation and that further funding may be required, but unavailable, for the ongoing development of Lake's projects. Lake Resources N.L. disclaims any intent or obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise. The words "believe", "expect", "anticipate", "indicate", "contemplate", "target", "plan", "intends", "continue", "budget", "estimate", "may", "will", "schedule" and similar expressions identify forward-looking statements. All forward-looking statements made in this presentation are qualified by the foregoing cautionary statements. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein. Lake does not undertake to update any forwardlooking information, except in accordance with applicable securities laws.

#### **Competent Person Statement**

The information contained in this presentation relating to Exploration Results, Mineral Resource estimates and the associated Indicated Resource , which underpins the production target in the pre-feasibility study, have been compiled by Mr Andrew Fulton. Mr Fulton is a Hydrogeologist and a Member of the Australian Institute of Geoscientists and the Association of Hydrogeologists. Mr Fulton has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a competent person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Andrew Fulton is an employee of Groundwater Exploration Services Pty Ltd and an independent consultant to Lake Resources NL. Mr Fulton consents to the inclusion in this presentation of this information in the form and context in which it appears. The information in this presentation is an accurate representation of the available data to date from initial exploration at the Kachi project and initial exploration at the Cauchari project.



## **Clean Technology – High Purity Lithium.**

- Clean Technology Simple adaptation of well-known water treatment method
- **Disruptive Direct Extraction with Lilac Solutions** Innovative, efficient lithium separation from salty water (brine); cost competitive vs traditional process
- High Purity Lithium 99.9% purity battery grade lithium carbonate Rising demand;
   ~20% compound growth for lithium; only 50-60% of production is battery grade
- Responsibly Sourced; Sustainable Small environmental footprint; Returns 99% brine to source; Lilac backed by Bill Gates-led Breakthrough fund; MIT's The Engine
- Path to Commercialisation Pilot plant module proven scale-up from lab testing



## **Direct extraction – Clean Technology**

Disruptive – No Evaporation or Mining

New adaptation to known technology in water treatment

Efficient - lithium removed from brine; no evaporation

- Faster, with higher recoveries
- High Purity products In demand
- Cost Competitive and scalable
- Environmentally friendly Returns brine to source; no change to chemistry



## Sustainable Lithium. Responsibly Sourced

Solution for more sustainable lithium in EV's

- Electric Vehicle Makers, EU, Seek More Sustainable Lithium Volkswagen, Daimler, EU push for more responsible sourcing of battery materials (Reuters)
- Direct Extraction is not mining and avoids water politics Known water treatment process (since 1940's) drastically cuts water use (Bloomberg)
- Lilac is backed by known high profile investors Lilac supported by Bill Gates-led Breakthrough fund, MIT's The Engine Fund
- Pilot plant modules demonstrate process works and is scalable Pilot plant modules in California processing Kachi brines



## Sustainable Lithium.

**ESG Targets for the Future – EU, UN** 

EU





**ADAPTATION** 

**CLIMATE CHANGE** 



SUSTAINABLE AND

PROTECTION OF WATER AND MARINE RESOURCES

UN

























#### UNGP

**United Nations Guiding Principles** on Business and Human Rights

#### SDGs

Sustainable Development Goals

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## Direct extraction. **Ion Exchange Process Lilac Solutions**

**Disruptive Technology** (3 hrs to 30-60,000ppm vs 1-2 years) Saves time and money - Faster production. Recoveries doubled **Lower impurities** – Higher purity as only lithium is extracted. **Sustainable solution** – Brine reinjected; no change to chemistry 3 HOURS To produce **Concentrate** vs 12-24 mths ION 30-60,000 PPM **EXCHANGE** LI CONCENTRATE TANK LITHIUM CARBONATE PLANT **BRINE RETURNED** AND/OR LITHIUM HYDROXIDE PLANT WITHOUT CHANGES **EXCEPT LITHIUM REMOVAL BRINE RESOURCE** 

## **Direct extraction – Small Environmental Footprint**

Lilac Direct Extraction Footprint vs Brine Evaporation Ponds (Atacama) and Hard Rock Mining (Greenbushes)







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Prime Location – Next to Large Producers.

Lithium Triangle: 40% of world's lithium production at the lowest cost.

5 largest producers all have operations ALB, SQM, LTHM + Tianqui, Ganfeng

Lake has a large project at Kachi 3 other brine projects





## Kachi Project.

100% Lake owned

Major brine resource - Top10

4.4 Mt LCE Total Resource

(1Mt LCE Indicated Resource; 3.4 Mt Inferred)

PFS only uses 20% of resource Open at depth and laterally

70,000 hectares of leases (11x Size of Manhattan Island)









## Kachi Project - High Margin Pre-Feasibility Results

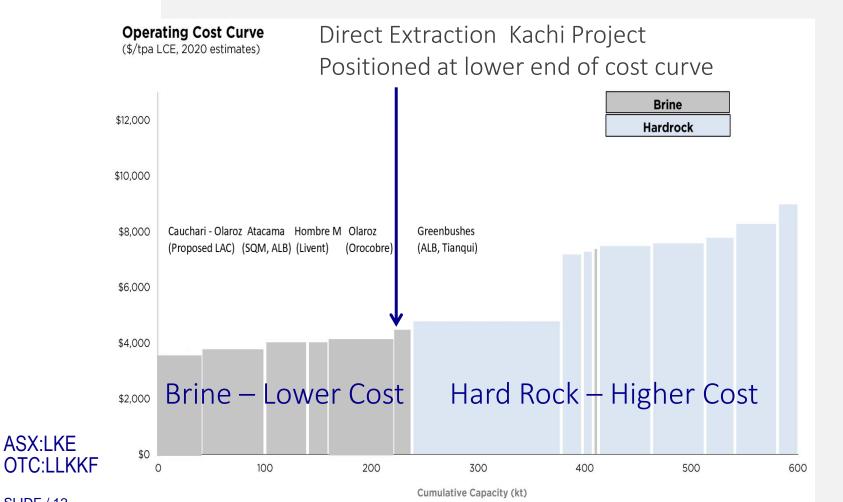
Long Life, High Value Project - 25 year production 25,500 tpa
 LCE\*\*; US\$1050 million project value\* (NPV @ 8% discount rate, Pre-tax)

- High Margin Lithium Production –
- 55% Operating Margin; US\$465 million EBITDA in 1st 3 years\*
- **High Purity** 99.9% purity battery grade Li<sub>2</sub>CO<sub>3</sub>
- Cost Competitive among Brine Producers –
   Operating cost US\$4170/t Li2CO3
- Prime Location Large scalable project in world-class region





## **Cost Competitive Direct Extraction Consistent High Value Low Impurity Product**





<b>Chemical Component</b>	Actual (wt%)	Target
Lithium (Li)	99.9	99.5 Min
Sodium (Na)	0.024	0.025 Max
Magnesium (Mg)	<0.001	0.008 Max
Calcium (Ca)	0.0046	0.005 Max
Iron (Fe)	<0.001	0.001 Max
Silicon (Si)	<0.001	0.003 Max
Boron (B)	<0.001	0.005 Max

Source: LKE announcements 9/1/2020, 14/01/2020; 10/12/2018

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## **Production Timeline.**

H1 - 2020

High purity samples

Kachi direct extraction pilot plant module – operating

Kachi PFS (Apr 2020) – Robust economics; cost competitive H2 - 2020, H1 - 2021

Kachi samples to battery makers for qualification purposes

Kachi – finalise offtake and strategic partner discussions

Kachi – Initiate DFS, EISA, pilot plant to site

Complete DFS, approvals; construction finance

#### 2016-19

Large Lease Area Pegged in 2016

Kachi – Large new discovery; major resource

Kachi – PFS commenced; Pilot plant initiated

Direct Extraction method – Testing

Cauchari – extended high grades; discovery

#### 2022-2023

Kachi – Production

Kachi – 25,500tpa LCE; Capex US\$540m

Phased expansion from 10,000tpa LCE

Capex Reduced

Olaroz, Cauchari – Drill, Resource, PFS

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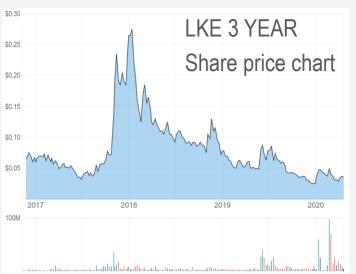
#### LAKE RESOURCES (ASX:LKE, OTC:LLKKF)

Total Current Shares on Issue	671,461,957
Listed Options (10c) Jun 2021 Expiry Unlisted Options (4.6c) Oct 2022 Expiry Unlisted Options (8c) Feb 2022 Expiry Unlisted Options (9c) Jul 2021 Expiry	52,512,693 18,300,000 5,555,000 15,000,000

#### **Market Data**

Market Cap (\$A)	@ \$0.039/ sh (10 day VWAP, 14July)	A \$26.1 million US\$18 million
Cash (\$A)	31 Mar 2020	\$2 million
Unsecured debt		\$ 0
Share Price	52 week range	\$0.023 - 0.10/sh
Share Register	40% Top 30, High Net Worth Investors	







## Orior Capital – Lake 'Incredibly Undervalued'

- Lake Undervalued vs Peers Robust financial metrics, advantages of direct extraction & lithium outlook: , Lake trading <2% NPV vs peers trading at around 20%; valuation of 29c per share
- Compelling, Cash-Generative Project Kachi to generate EBITDA US\$155m pa and EBITDA margin 55%, based on conservative lithium carbonate price of US\$11,000/t
- Significant and Sustainable Competitive Advantages Energy storage sector is increasingly demanding low impurities and product consistency
- It's Not About Grade In industrial chemistry, 'low impurities' is king and Kachi delivers
- **Supply-Side Constraints** Lithium demand rising as EV revolution continues, yet projects suffering cutbacks or delays; evaporation pond projects coming under environmental scrutiny

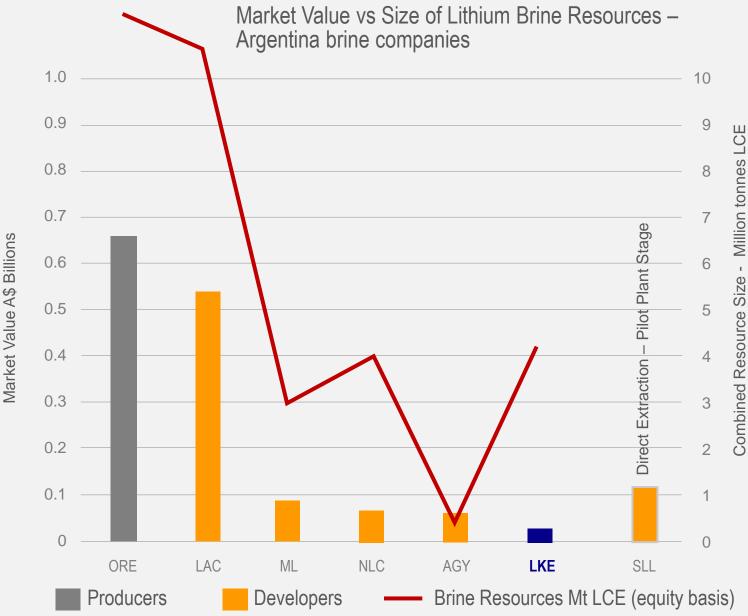


## Significant Upside

Lake \$25m vs Peers \$50-120m market cap

Trading at <2%NPV<sub>8</sub> vs Peers 10-15% NPV<sub>8</sub> at same stage

Research: LKE website



Source: ASX / TSX company disclosures; SEDAR; Bloomberg; Company sources: 20 May 2020



## Experienced.

# Lake has extensive development experience – both at the board level and local management





Extensive project management experience in South America – geologist and finance experience – with major companies (Rio, Citi) and mid-tiers.



Stu Crow
CHAIRMAN NON-EXEC

More than 25 years of experience (numerous public companies) and in financial services



Nick Lindsay
NON-EXEC DIRECTOR

30 years of experience in Argentina/Chile/Peru (PhD in Metallurgy & Materials Engineering); Major companies (Anglo) and taken companies from inception to development to acquisition in South America



Robert Trzebski NON-EXEC DIRECTOR

International mining executive; 30 years experience; operational, commercial and technical experience in global mining incl. Argentina. Extensive global contacts to assist Lake with project development. Chief Operating Officer of Austmine Ltd. Director Austral Gold.



## **Next Steps – Catalysts.**

- Deliver high purity samples to off-takers within weeks
- Qualification process; Focus on Sustainability Off-taker engagement
- Capital cost, Opex reductions Solar power, Staged development 10,000tpa
- Definitive feasibility study DFS Complete mid 2021, Production 2023 target





## **Clean High Purity Lithium - Unique Proposition.**

- New Clean Technology for High Purity Lithium Growing need
- Responsibly Sourced & Sustainable Growing demand from EV makers, EU guidelines, Battery makers Enables a clean future and one of only new suppliers
- 21st Century Solution to Batteries for EV's

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## PFS - Kachi.

## **Appendix - PFS**

# **Compelling Economics; High EBITDA Margin Cost Competitive; High Value Product**

Key Financial Parameters	Values
NPV <sub>8</sub> (NPV @ 8% discount rate) Pre-tax	US\$1,052 million (A\$1,660 million)*
NPV <sub>8</sub> (NPV @ 8% discount rate) Post-tax	US\$748 million (A\$1,180 million)*
IRR pre-tax	25%
IRR post-tax	22%
EBITDA, annual	US\$155 million (A\$245 million)*
EBITDA margin	55%

Parameters	Values
Project Life	25 years
Production Rate – Lithium Carbonate	25,500 tonnes LCE per year**
Mineral Resource (Indicated)	1.01 Million tonne LCE
Recovery	83 %
Capital Investment (at start-up)	US\$544 million
Operating Cost (annual)	US\$107 million
Cash Cost (Opex, C1)	US\$4178/tonne LCE



## **Appendix – Mineral Resource – JORC Code 2012** Kachi Lithium brine Project.

KACHI LITHIUM BRINE PROJECT	MINERAL RESOURCE ESTIMATE					
JORC Code 2012 Edition	Indicated Inferred		Total Resource			
Area, km²	17.1 158.3		175.4			
Aquifer volume, km³		6	41		47	
Brine volume, km³	C	0.65	3.2		3.8	
Mean drainable porosity %	1	.0.9	7.5		7.9	
Element	Li	K	Li	K	Li	K
Weighted mean concentration, mg/L	289	5,880	209	4,180	211	4,380
Resource, tonnes	188,000	3,500,000	638,000	12,500,000	826,000	16,000,000
Lithium Carbonate Equivalent (LCE), tonnes	1,005,000		3,394,000		4,400,000	
Potassium Chloride, tonnes	6,705,000		24,000,000		30,700,000	
Lithium is converted to lithium carbonate (Li2CO3) with a conversion factor of 5.32  Potassium is converted to potassium chloride (KCI) with a conversion factor of 1.91						

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#### **Appendix – Table 1 Report – JORC Code 2012.** Brine samples were taken from the diamond drill hole with a bottom of hole spear point during advance The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's) and using a straddle packer device to obtain representative samples of the formation fluid by purging Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province

	and using a straddle packer device to obtain representative samples of the formation fluid by purging a volume of fluid from the isolated interval, to minimize the possibility of contamination by drilling fluid	iana tenure status	Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province		and lithological codes were correct
			of north western Argentina at an elevation of approximately 3,000m asl.		Data was plotted to check the spatial location and relationship to adjoining sample points
	then taking the sample. Low pressure airlift tests are used as well. The fluid used for drilling is brine		<ul> <li>The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five</li> </ul>		Duplicates and standards have been used in the assay process
	sourced from the drill hole and the return from drillhole passes back into the excavator dug pit lined		leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328		<ul> <li>Brine assays and porosity test work have been analysed and compared with other publicly available</li> </ul>
	to avoid leakage.		Ha) and ten leases (16,689 Ha) are applications pending granting.		information for reasonableness
	The brine sample was collected in a clean plastic bottle (1 litre) and filled to the top to minimize air		The tenements are believed to be in good standing, with statutory payments completed to relevant	Site visits	Comparison of original and current datasets were made to ensure no lack of integrity
	space within the bottle. A duplicate was collected at the same time for storage and submission of		government departments.	Site visits	The Competent Person visited the site multiple times during the drilling and sampling program
	duplicates to the laboratory. Each bottle was taped and marked with the sample number.			Geological Interpretation	Some improvements to procedures were made during visits by the Competent Person
	Drill core in the hole was recovered in 1.5 m length core runs in core split tubes to minimize sample	Exploration by other	<ul> <li>Marifil Mines Ltd conducted sparse near-surface pit sampling of groundwater at depths less than 1m</li> </ul>	Geological Interpretation	<ul> <li>The geological model is continuing to develop. There is a high level of confidence in the interpretation</li> </ul>
	disturbance.	parties	during 2009.		of the exploration results to date. There are relatively consistent geological units with relatively uniform clastic sediments
	<ul> <li>Drill core was undertaken to obtain representative samples of the sediments that host brine.</li> </ul>		<ul> <li>Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina.</li> </ul>		Any alternative interpretations are restricted to smaller scale variations in sedimentology, related to
Drilling techniques	Diamond drilling with an internal (triple) tube was used for drilling. The drilling produced cores with		<ul> <li>Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd.</li> </ul>		changes in grain size and fine material in units
Drining techniques	variable core recovery, associated with unconsolidated material, in particularly sandy intervals.		NRG Metals Inc commenced exploration in adjacent leases under option. Two diamond drillholes		Data used in the interpretation includes rotary and diamond drilling methods
					Drilling depths and geology encountered has been used to conceptualise hydro-stratigraphy
	Recovery of these more friable sediments is more difficult with diamond drilling, as this material can		intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below		. Sedimentary processes affect the continuity of geology, whereas the concentration of lithium and
	be washed from the core barrel during drilling.		with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole,		potassium and other elements in the brine is related to water inflows, evaporation and brine evolution
	<ul> <li>Rotary drilling has used 8.5" or 10" tricone bits and has produced drill chips.</li> </ul>		drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES		in the Salt Lake.
	Brine has been used as drilling fluid for lubrication during drilling.		ground geophysical survey was completed prior to drilling. A NI 43-101 report was released in February	Dimensions	<ul> <li>The lateral extent of the resource has been defined by the boundary of the Company's properties. The</li> </ul>
Drill sample recovery	Diamond drill core was recovered in 1.5m length intervals in the drilling triple (split) tubes. Appropriate		2017.		brine mineralisation subsequently covers 175 km2
	additives were used for hole stability to maximize core recovery. The core recoveries were measured		No other exploration results were able to be located		<ul> <li>The top of the model coincides with the topography obtained from the Shuttle Radar Topography</li> </ul>
	from the cores and compared to the length of each run to calculate the recovery. Chip samples are	O I			Mission (SRTM). The original elevations were locally adjusted for each borehole collar with the mos
	collected for each metre drilled and stored in segmented plastic boxes for rotary drill holes.	Geology	<ul> <li>The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated</li> </ul>		accurate coordinates available. The base of the resource is limited to a 400 m depth. The basement
	Brine samples were collected at discrete depths during the drilling using a double packer over a 1 m		in the salar from terrestrial sedimentation and evaporation of brines.		rocks underlying the Salt Lake sediments have been intercepted in drilling
	interval (to isolate intervals of the sediments and obtain samples from airlifting brine from the		<ul> <li>Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm</li> </ul>		<ul> <li>The resource is defined to a depth of 400 m below surface, with the exploration target immediately</li> </ul>
			geothermal fluids, with brines hosted within sedimentary units.		extending beyond the aerial extent of the resource
	sediments within the packer).		Geology was recorded during the diamond drilling and from chip samples in rotary drill holes.	Estimation and modelling	No grade cutting or capping was applied to the model
	As the brine (mineralisation) samples are taken from inflows of the brine into the hole (and not from			techniques	<ul> <li>No assumptions were made about correlation between variables. Lithium and potassium were</li> </ul>
	the drill core – which has variable recovery) they are largely independent of the quality (recovery) of	Drill hole Information	<ul> <li>15 drill holes completed, totalling 3150 metres with varying depths up to 403 metres.</li> </ul>		estimated independently
	the core samples. However, the permeability of the lithologies where samples are taken is related to		<ul> <li>Lithological data was collected from the holes as they were drilled and drill cores or chip samples were</li> </ul>		<ul> <li>The geological interpretation was used to define each geological unit and the property limit was used</li> </ul>
	the rate and potentially lithium grade of brine inflows.		retrieved. Detailed geological logging of cores is ongoing.	Material	to enclose the reported resources.
Logging	Sand, clay, silt, salt and cemented rock types was recovered in a triple tube diamond core drill tube, or		<ul> <li>All drill holes are vertical, (dip -90, azimuth 0 degrees).</li> </ul>	Moisture	<ul> <li>Moisture content of the cores was not Measured (porosity and density measurements were made),</li> </ul>
	as chip samples from rotary drill holes, and examined for geologic logging by a geologist and a photo	Data aggregation	<ul> <li>Assay averages have been provided where multiple sampling occurs in the same sampling interval.</li> </ul>		but as brine will be extracted by pumping not mining this is not relevant for the resource estimation.
	taken for reference.	methods		0.1.11	Tonnages are estimated as elemental lithium and potassium dissolved in brine.
		Relationship between	<ul> <li>Mineralisation interpreted to be horizontally lying and drilling perpendicular to this.</li> </ul>	Cut-off parameters	No cut-off grade has been applied
	Diamond holes are logged by a senior geologist who also supervised taking of samples for laboratory	mineralisation widths		Mining factors or	. The resource has been quoted in terms of brine volume, concentration of dissolved elements,
	porosity analysis as well as additional physical property testing.	and intercept lengths		assumptions	contained lithium and potassium and their products lithium carbonate and potassium chloride.
	<ul> <li>Logging is both qualitative and quantitative in nature. The relative proportions of different lithologies</li> </ul>	Diagrams	<ul> <li>A drill hole location plan is provided showing the locations of the drill platforms. Individual drill</li> </ul>		<ul> <li>No mining or recovery factors have been applied although the use of the specific yield (drainable)</li> </ul>
	which have a direct bearing on the overall porosity, contained and potentially extractable brine are		locations are provided in Table 1.		porosity) is used to reflect the reasonable prospects for economic extraction with the proposed mining
	noted, as are more qualitative characteristics such as the sedimentary facies and their relationships.	Balanced reporting	<ul> <li>Brine assay results are available from 15 drill holes from the drilling to date, reported here.</li> </ul>		methodology. (Recoveries of 83% lithium have been used in the PFS for the direct processing method)
	When cores are split for sampling they are photographed.	Other substantive	There is no other substantive exploration data available regarding the project.		<ul> <li>Dilution of brine concentrations may occur over time and typically there are lithium and potassium</li> </ul>
Sub-sampling techniques	<ul> <li>Brine samples were collected by packer and spear sampling methods, over a metre. Low pressure airlift</li> </ul>	exploration data	There is no other substantive exportation data available regarding the project.		losses in both the storage ponds and processing plant in brine extraction operations. However,
and sample preparation	tests are used as well to purge test interval and gauge potential yields.	Further work	Further water well drilling is planned to expand the resource and test pumping rates.		potential dilution will be estimated in the groundwater model simulating brine extraction.  • The conceptual mining method is recovering brine from the Salt Lake via a network of wells, the
	The brine sample was collected in one-litre sample bottles, rinsed and filled with brine. Each bottle was	TOTOTE WORK	Further water went urnning is planned to expand the resource and test pumping rates.		<ul> <li>The conceptual mining method is recovering brine from the Salt Lake via a network of wells, the established practice on existing lithium and potash brine projects.</li> </ul>
	taped and marked with the sample number.				Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define the
Overliby of account data and					<ul> <li>Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define the extractable resources and potential extraction rates.</li> </ul>
	The Alex Stewart Argentina/Nor lab SA in Palpala, Jujuy, Argentina, is used as the primary laboratory			Matallurgical factors or	Lithium carbonate is targeted as the commercial product
laboratory tests	to conduct the assaying of the brine samples collected as part of the sampling program. The SGS			assumptions	It would be obtained by the brines being subjected to direct lithium extraction (Ionic exchange and
	laboratory in Buenos Aires has also been used for both primary and check samples. They also analysed			ossan prioris	reverse osmosis) to produce a high grade LiCl eluate (30,000 to 60,000 mg/L lithium), which is
	blind control samples and duplicates in the analysis chain.				processed in a conventional lithium carbonate plant by reaction with sodium carbonate:
	The Alex Stewart/Norlab SA laboratory and the SGS laboratory are ISO 9001 and ISO 14001 certified,				LiCl + Na <sub>2</sub> CO <sub>2</sub> → Li <sub>2</sub> CO <sub>2</sub> + NaCl
	and are specialized in the chemical analysis of brines and inorganic salts, with experience in this field.				<ul> <li>Process work has been undertaken by Lilac Solutions, which is an expert laboratory in the treatment of</li> </ul>
	This includes the oversight of the experienced Alex Stewart Argentina S.A. Jaboratory in Mendoza.				brines by ion exchange.
	Argentina, which has been operating for a considerable period.				. Bench tests include short and long-term tests using ion exchange media and brine from Kachi to
	The quality control and analytical procedures used at the Alex Stewart/Norlab SA laboratory or SGS				establish recovery, reagent consumption, and engineering parameters used in the PFS
	laboratory are considered to be of high quality and comparable to those employed by ISO certified				<ul> <li>Analyses of solutions by ICP and includes the use of standards</li> </ul>
	laboratories specializing in analysis of brines and inorganic salts.				<ul> <li>The longevity of the ion exchange media has been tested over 1000 cycles, or six months</li> </ul>
Mariffeetier of consultan					· Lithium carbonate of high purity and low impurities has been produced which can be considered
verification of sampling and assaying	Field duplicates, standards and blanks will be used to monitor potential contamination of samples and the contamination of samp				equivalent to metallurgical test work) is being carried out on the brine following initial test work.
unu assaying	the repeatability of analyses. Accuracy, the closeness of measurements to the "true" or accepted value, will be monitored by the insertion of standards, or reference samples, and by check analysis at an				Pilot plant module test-work has commenced using Kachi brine.
	will be monitored by the insertion of standards, or reference samples, and by check analysis at an independent (or umpire) laboratory.			Environmental factors as	. Impacts of a lithium operation at the Kachi project would include surface disturbance from the
	Duplicate samples in the analysis chain were submitted to Alex Stewart/Norlab SA or SGS laboratories			assumptions	installation of extraction/processing facilities and associated infrastructure, accumulation of various
	Duplicate samples in the analysis chain were submitted to Alex Stewart/Norlab SA or SGS laboratories as unique samples (blind duplicates) during the process				salt tailings impoundments and extraction from brine and fresh water aquifers regionally
	Stable blank samples (distilled water) were used to evaluate potential sample contamination and will				<ul> <li>Environmental management plan for the protection of wetlands, salt lakes, and surrounds</li> </ul>
	Stable blank samples (distilled water) were used to evaluate potential sample contamination and will be inserted in future to measure any potential cross contamination				Consultation with communities in the area of influence of the project
	Samples were analysed for conductivity using a hand-held Hanna pH/EC multiprobe.				Environmental impact analysis on-going
				Bulk density	<ul> <li>Density measurements were taken as part of the drill core assessment. This included determining dry</li> </ul>
					density and particle density as well as field measurements of brine density. Note that no mining is to
Location of data points	Regular calibration using standard buffers is being undertaken.				
Location of data points	Regular calibration using standard buffers is being undertaken.     The diamond drill hole sample sites and rotary drill hole sites were located with a hand-held GPS.				be carried out as brine is to be extracted by pumping and consequently sediments are not mined
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Data spacing and distribution  Orientation of data in relation to geological structure  Sample security	Regular calibration using standard buffers is being undertaken. The diamond drill hole sample sites and rotary drill hole sites were located with a hand-held GPS. The properties are located at the junction of the Argentine POSGAR grid system Zone 2 and Zone 3 (UTM 19) and in WGS84 Zone 19 south.  Brine samples were collected over 1m intervals every 6 m intervals within brine producing aquifers, where this was possible. The salt take (solor) deposits that contain lithium-bearing brines generally have sub-horizontal beds and lenses that contain and, gravel, salt, silt and day. The vertical diamond drill holes will provide a better understanding of the stratigraphy and the nature of the sub-surface brine bearing aquifers in the sub-surface brine bearing aquifers analysis in sealed 1-liter grid plastic bottles with sample numbers clearly identified. Samples were transported by a trusted member of the team.  The samples were moved from the drillhole sample site to secure storage at the camp on a daily basis. All brine sample bottles sent to the laboratory are marked with a unique label not related to the location.			Audits or reviews Discussion of relative	be carried out as brine is to be extracted by pumping and consequently sediments are not mimed in building and a particular sediments are not mimed. As build winely as agrilled the relationshe because resource or defined by wheim, a retire than by tomage.  The resource has been classified into the two possible resource categories based on confidence in the A Measured resource would reflect higher dennity diffigure, with prorotily samples from drill cores and well constrained vertical brine sampling in the holes.  The Indicated resource reflects the higher confidence in the brine sampling in the rotary drilling and lower quality geological control from the drill cuttings.  The Indirect recource underlying the Measured and/or indicated resource reflects the limited drilling in the rotary drilling and lower quality geological control from the drilling of the control of the sampling in the rotary drilling and lower quality geological control from the drilling of the sample of the sampl
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**ASX:LKE** OTC:LLKKF

SLIDE / 22

Data was checked for transcription errors once in the database to ensure coordinates, assay value