12 November 2021 ASX:LKE | FRA:LK1 | OTC:LLKKF

Direct Lithium Extraction & Project Finance Kachi Lithium Project

CLEANER LITHIUM FOR AN ELECTRIC WORLD

R E S O U R C E S

Steve Promnitz - Managing Director, Lake Resources

Disclaimer

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Competent Person Statement

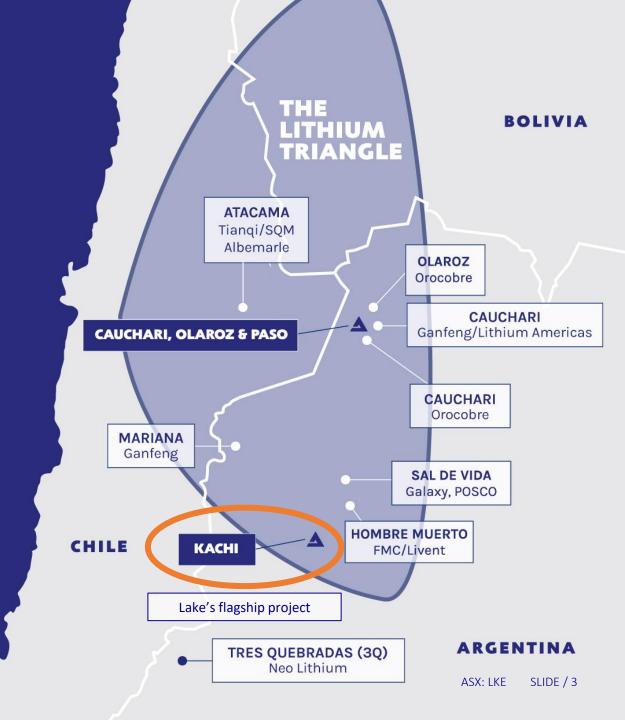
The information contained in this presentation relating to Exploration Results has been compiled by Mr Andrew Fulton. Mr Fulton is a Hydrogeologist and a Member of the Australian Institute of Geoscientists and the Association of Hydrogeologists. Mr Fulton has sufficient experience that is relevant to 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 the available data to date from 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.

World's cleanest lithium.

Four lithium projects in heart of the Lithium Triangle.

Large leaseholding 2,200km² (550,000 acres)

World's five largest producers all have equity in operations in the Lithium Triangle.





Lake Resources - World's Cleanest Lithium.

99.97%

High Purity lithium carbonate. Confirmed in batteries.

+ Significant ESG benefits.

- CLEANER LITHIUM Lake's 99.97% purity product far lower impurities vs 99.5% battery grade lithium carbonate. Higher purity lithium = higher battery performance.
- CLEANER TECHNOLOGY: Lilac direct lithium extraction method common in water treatment, superior to traditional process. Supported by tech sector and battery/EV makers.
- **CLEANER ENVIRONMENT**: Lithium with ESG benefits. Small environmental footprint low CO₂, less water, low land use.
- CLEARER PATHWAY: Path to production; Successful pilot plant module; Large, scalable project, high margin. Indicative debt funding for 70% of Kachi project



Process and ESG Benefits – Cleaner Technology

Process – Lilac's Ion Exchange Direct Lithium Extraction ESG benefits – Low Carbon, Low Land & Water Use

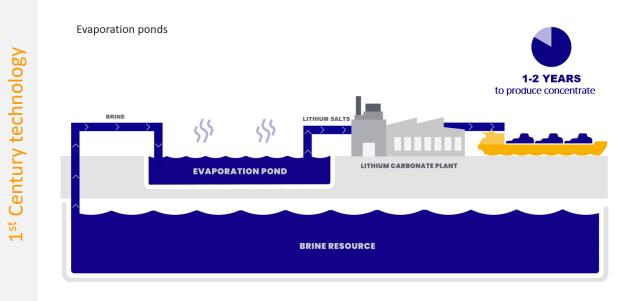


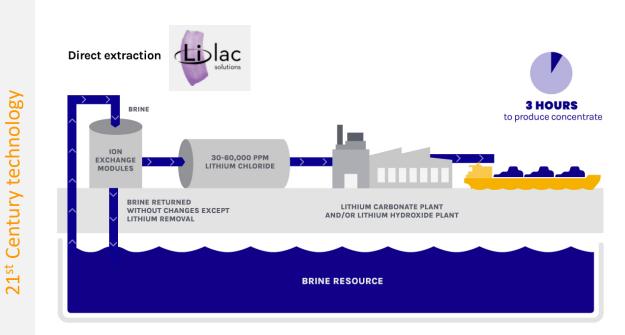
Direct Lithium Extraction Lilac Solutions -Cleaner technology

Lilac direct extraction displaces evaporation process

Brine in – Lithium chloride out

- High purity
- Faster process
- High recovery
- Sustainable No brine heating
- Cost competitive Durable beads
- Scalable
- Proven in pilot plant Extensive test work







Delivers a Cleaner Environment

Smaller environment footprint – Low Land use - Lower water use – No brine depletion

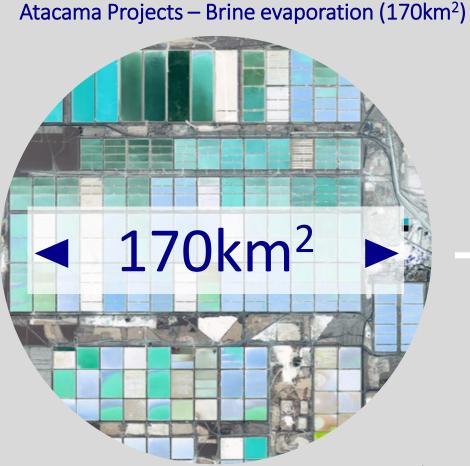




Source: SQM / ALB presentations 2020; 170km2 for c.80,000 tpa LCE. Lake/Lilac/Hatch estimates in PFS (excluding solar hybrid power)

Delivers a Cleaner Environment

Smaller environment footprint – Lower land use



Kachi Project – Lake/Lilac DLE (<1km²)

<1km² wide



Source: SQM / ALB presentations 2020; 170km2 for c.80,000 tpa LCE. Lake/Lilac/Hatch estimates in PFS (excluding solar hybrid power)

Delivers a Cleaner Environment

Smaller carbon footprint – Lower greenhouse gases

Kg CO₂e/kg product

Li Hydroxide LCE from Hard Rock Spodumene 14 - 18.2



Li Carbonate LCE from Lake/Lilac DLE Also expected to be low

Note: Hard Rock = Spodumene converted to Lithium Hydroxide as LCE in China using coal for energy; Brine evaporation in Sth America Source: SQM presentation June 2020; Roskill Nov 2020; Lake/Lilac estimates with solar hybrid power – prelim study being undertaken

Sustainable lithium

Lake / Lilac DLE method

- Low CO₂ footprint
- Low water usage
- Low land use

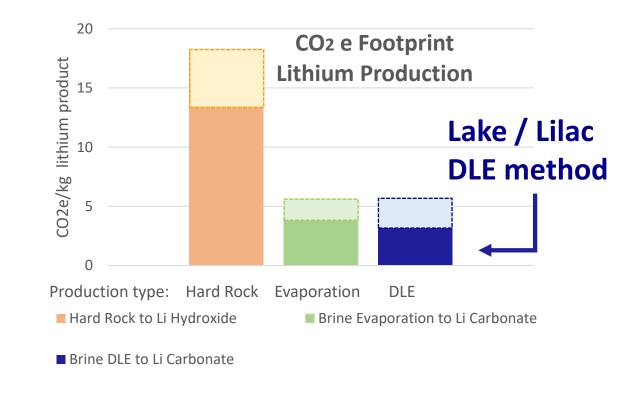
Bloomberg Green

Energy & Science

Bill Gates-Led Fund Invests in Making Lithium Mining More Sustainable

Lilac Solutions has developed a process for extracting lithium that drastically cuts water use.

By <u>Akshat Rathi</u> February 20, 2020, 4:00 PM GMT+11







Note: Hard Rock = Spodumene converted to Lithium Hydroxide as LCE in China using coal for energy; Brine evaporation in Sth America

Source: SQM presentation June 2020; Roskill presentation November 2020;

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Lake/Lilac estimates based on PFS with solar hybrid power power – prelim study being undertaken

Project – Large, Scalable - On Path to Production

Lilac Solutions – Earn-in to Project & Tech sector backers

Kachi Project – Top 10 Lithium Brine Resource

- Scalable, as Control Entire Basin Upside
- Expansion study to 51,000 tpa LCE



Partnership- Lilac Solutions + Kachi Project Aligns Climate Tech with Upstream Lithium Supply

- Lilac to Earn in to Kachi Project up to max 25% stake via performance based milestones
 - Initial 10% Lilac funds completion of testing of its technology for the Kachi Project
 - Further 10% Lilac funds on-site demonstration plant at Kachi and satisfies all agreed testing criteria
 - Final 5% Kachi lithium product achieves highest agreed qualification standards with certain offtakers
- Lilac to Contribute c.US\$50 million to Kachi Project , once earn in complete (pro-rata development funding)
- Lilac has major tech sector supporters aligns breakthrough climate tech with upstream ESG lithium Aligns breakthrough Climate Tech investment with upstream environmentally friendly battery materials supply. Lilac completed US\$150m Series B funding round from successful tech investors and battery/EV makers
- Lake with Lilac New independent clean lithium producer with scale



Lilac Solutions – Lead Investors

Successful Tech Investor Backing with EV supply chain participants – Recent US\$150m investment





Kachi project. Large, scalable resource

25 years production uses 20% of resource.

- Drilling to upgrade resource for expansion; resource open laterally and at depth
- Kachi lease 740 sq km (185,000 acres)
- One of 10 largest brine resources globally total JORC resource 4.4Mt LCE
- Production 25,500tpa 2024
- Export Credit Agencies indicative 10 year
 70% debt funding of Kachi development





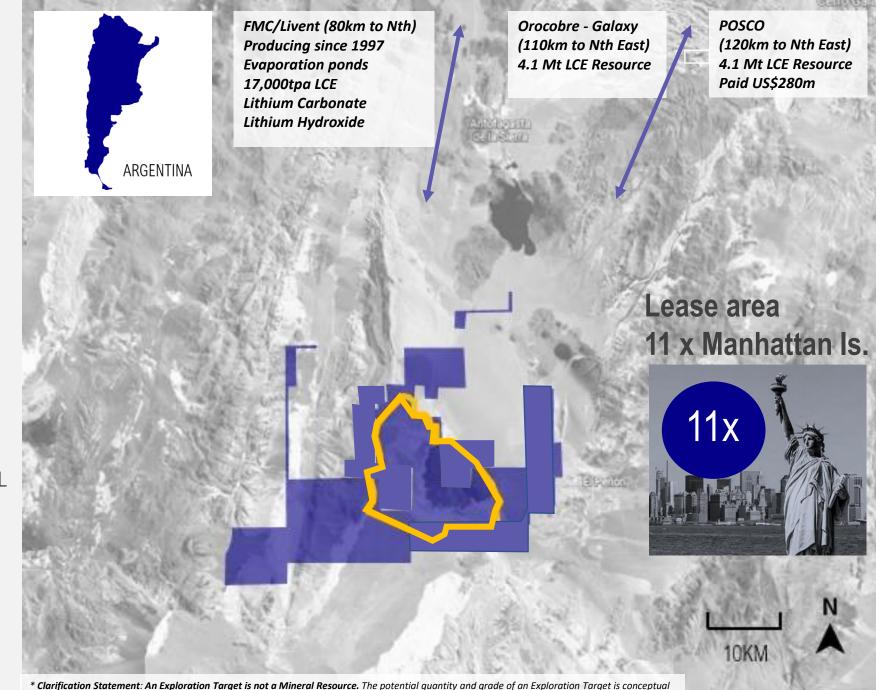


Kachi Project.

Lease – 74,000ha
 Exploration Target
 8Mt – 17Mt LCE Potential*

JORC certified combined lithium resource of 4.4 million tonnes LCE. Indicated Resource 1.0Mt LCE 290mg/L Inferred Resource 3.4Mt LCE 210mg/L

Leases cover the entire area of interest in this large basin



in nature. A Mineral Resource has been identified in the centre of the Exploration Target, but there has been insufficient exploration to estimate any

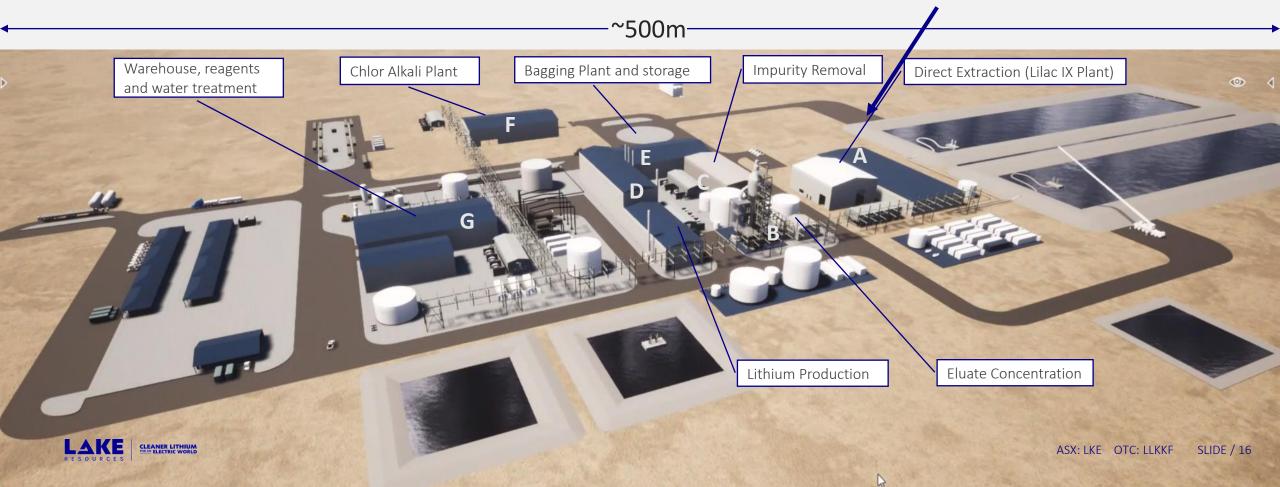
extension to the Mineral Resource and it is uncertain if further exploration will result in the estimation of an additional Mineral Resource.



Proposed plant design



One building with Ion Exchange Modules Replaces 20-30km₂ of Evaporation Ponds

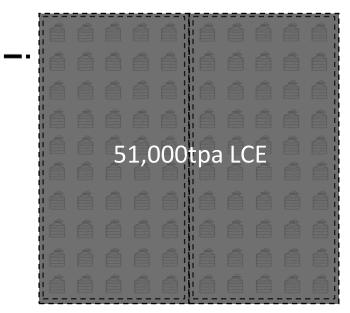


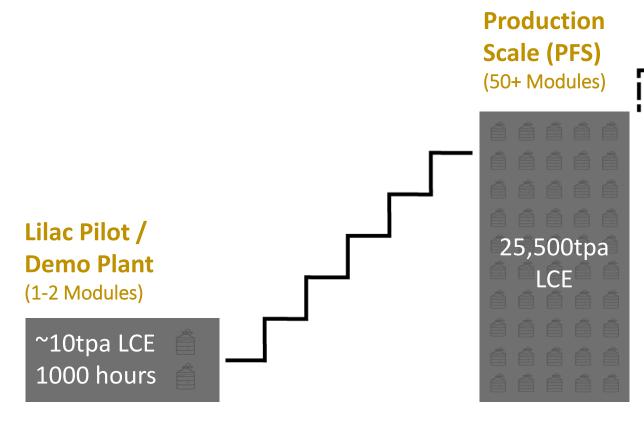
Clearer pathway

Simple production scale-up - Modular

Expansion Study*

(to Double Production to 51,000tpa)





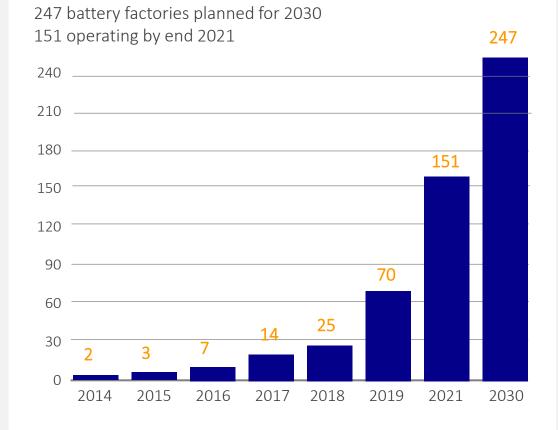
* Note: Expansion Study requires drilling (underway) to upgrade more Inferred Resources to Measured and Indicated Resources.



Market needs 10x to 18x more lithium production by 2030.

- Lithium added to critical raw materials list for the first time in 2020
- Lithium-ion batteries represent one of the 21st Century's largest growth areas
- Lake's world's purest lithium is exactly what an electric world wants

Battery mega-factory growth



Source: Benchmark Mineral Intelligence, Oct 2021



Project Finance – Robust Project Support

Robust Project – PFS Results - High cashflow, High margin

Debt Finance – 70% Indicative – Long term, Low interest - Support from UK and Canada govt ECA's

Solid Equity Position – LKE cash position with Lilac commitment



Kachi PFS metrics

Compelling economics Pre-Feasibility Study results

Mineral Resource* (Indicated)	Annual production Li ₂ CO ₃ 25,500tpa	Annual EBITDA US\$260m	Project life 25+ years	Expansion Study Underway 51,000tpa#
^{capex} US\$544m	Cash cost US\$4,178/t	Annual operating costs US\$107m	Project Finance 70% debt##	
Post-tax NPV8 US\$1,580m**	IRR post-tax 35%			

Note: Results based on PFS Study Assumptions (refer ASX releases 30 Apr 2020, 17 March 2021) *Based on Indicated Resource 1.0Mt @290mg/L lithium

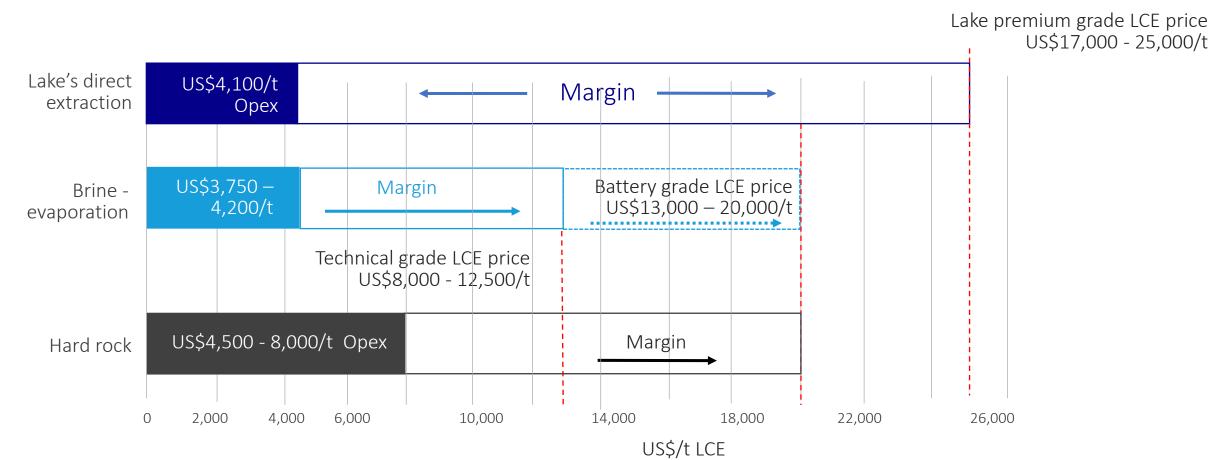
**Assuming US\$15,500/t lithium carbonate price (CIF Asia) (refer ASX release 17 March 2021)

Expansion study to double production, but not confirmed

Discussions with Export Credit Agencies Underway; Indications of c. 70% debt over 8-10 years



Direct extraction Premium price – very high margin





Source: Street research and LAC presentations 2020 – including Cauchari DFS numbers, Olaroz results, Thacker Pass results; Lake/Lilac/Hatch estimates in PFS (excluding solar hybrid power), with indicative premium pricing ASX: LKE OTC: LLKF SLIDE / 21

Clearer pathway

Lake's high purity lithium tested and proven in batteries

NOVONIX

Lake's lithium carbonate demonstrated in batteries

- Lake's product premium battery quality
- Performs like Tier 1 products in NMC622 batteries
- Only 50-60% of lithium production is battery quality

Battery technology leader (ASX:NVX; OTCQX:NVNXF)

• Clients include Panasonic, CATL, Samsung, SK, LG Chem, Bosch, Honda & Dyson

Lake Lithium Carbonate High Purity

Chemical Component	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 announcement 20/10/2020



Kachi Project Finance Support

UK Export Finance & Canada EDC – Export Credit Agencies Support Expression of Interest - Funding to ~70% of Total Required – including Expansion

Project Finance ~70% debt##	^{capex} US\$544m	Debt Duration 10-11 years*
Annual production Li ₂ CO ₃ 25,500tpa	Project life 25+ years	
Expansion Study Support		

Expansion Study Support

51,000tpa#

Note: Expression of Interest subject to standard project finance terms (refer ASX release 11 Aug 2021) * 8.5 years Post Construction

Expansion study to double production, but not completed

Indicative level of support c. 70% debt over 8.5 years post construction



UK Export Finance provided Expression of Interest to support ~70% of the total finance required Incl. Canada EDC up to US\$100m.

- Subject to standard project finance terms, including DFS, ESIA and offtake
- Support for expansion to 51,000 tpa
- 8.5 year debt funding post construction
- Significantly lower cost of capital than traditional debt financing and Reflects ESG benefits of project



Corporate snapshot

Funded to FID

Share price

A\$0.90 US\$0.70

5 Nov 2021 (10 day VWAP) 52 week high \$1.18c, low \$0.05c

Shares on issue

1.2bn

Market capitalisation **A\$1100m** US\$800m

Institutional Investors Ausbil, Acorn

+ Institutional investors USA, EU

Cash 30 June 2021 **A\$46m** ~A\$63m US\$35m ^{30 Oct'21}

Debt Zero

Unlisted Options 26 30c options, March 2023 expiry 86 75c options, 15 June 2022 expiry 37 55c options, Dec 2024 expiry

49c options, Aug 2024 expiry

Half year share price chart

LKE Chart



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Timeline – to Production; Other Catalysts

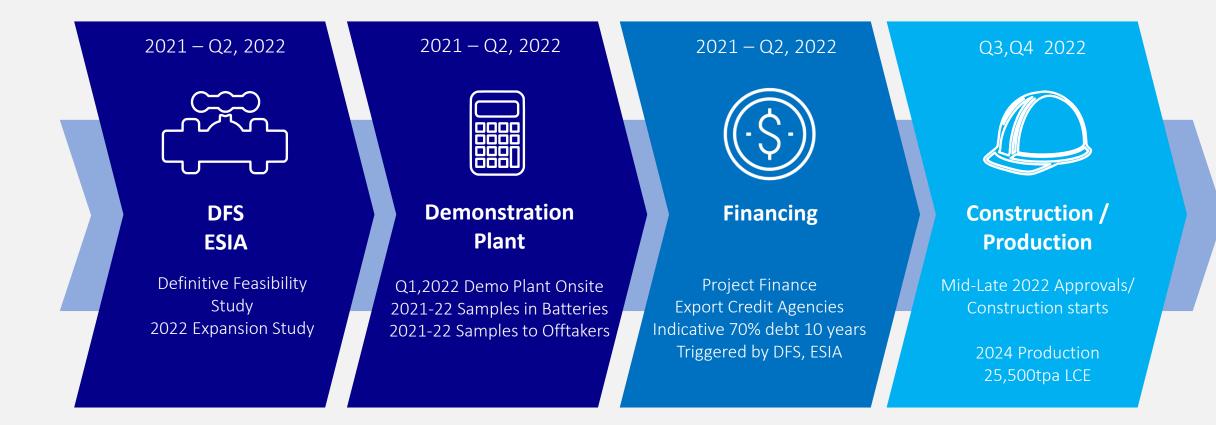
Timeline – FID mid next year

Catalysts - Completion of studies; Offtake agreements

- Other Projects



Project Production Timeline



Clean Independent Producer Benefits

Few Independent Producers Unallocated Offtake in High Demand

Lake to become an Independent Producer

- Most producers tied to either China's battery supply chain or tied to one offtaker potentially at long term lower pricing without flexibility
- Market needs scalable upstream suppliers as supply squeeze to continue for some years
- Tier 1 partners available for consistent battery quality supply; seeking rise-and-fall pricing

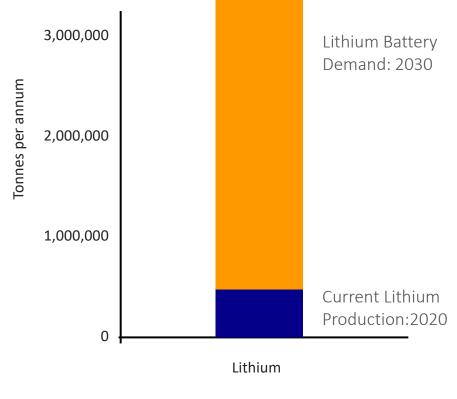


Underinvestment in new supply. Price moving up.

- Lithium carbonate prices have tripled over past year
- 8 to 18 times more lithium production needed by 2030 to satisfy demand

Lithium battery demand

247 Megafactories operating at 100% capacity (4.5 TWh)



Source: Benchmark Mineral Intelligence Apr 2021



Cauchari project / Olaroz Project

Next lithium projects through development

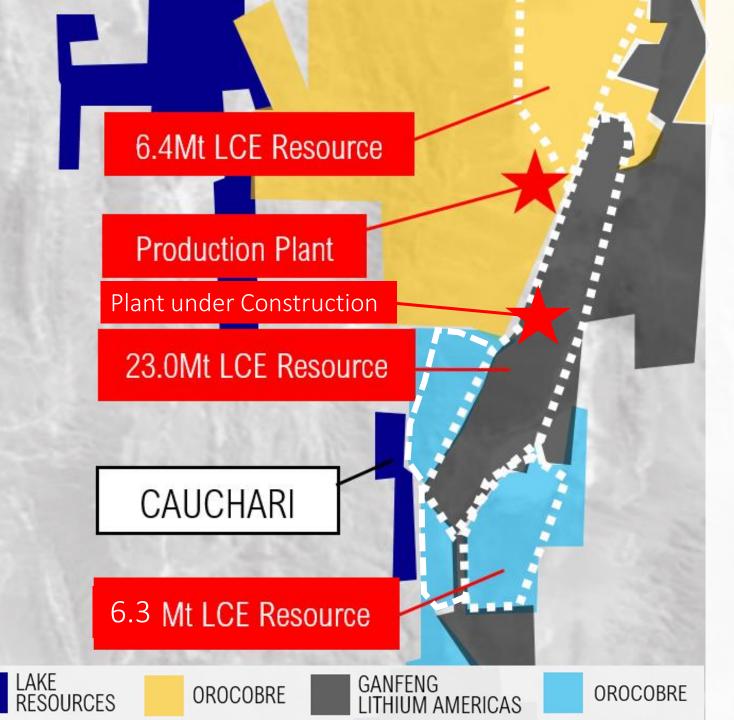
Cauchari - Identical lithium brines as adjoining Ganfeng/Lithium Americas development

Lake's brines being tested for direct lithium extraction

Cauchari and Olaroz - Scoping study and resource drilling planned for 2021/22







Cauchari Project.

Next to world's largest lithium brine resource:-

23.0 Mt LCE (Ganfeng LAC) *

6.3 Mt LCE (Orocobre).

Ganfeng LAC -production 2022 at 40,000 tpa LCE, expanding to 60,000 tpa LCE

Ganfeng paid US\$397million for 50% since Aug 2018 – 2020 (debt + equity)

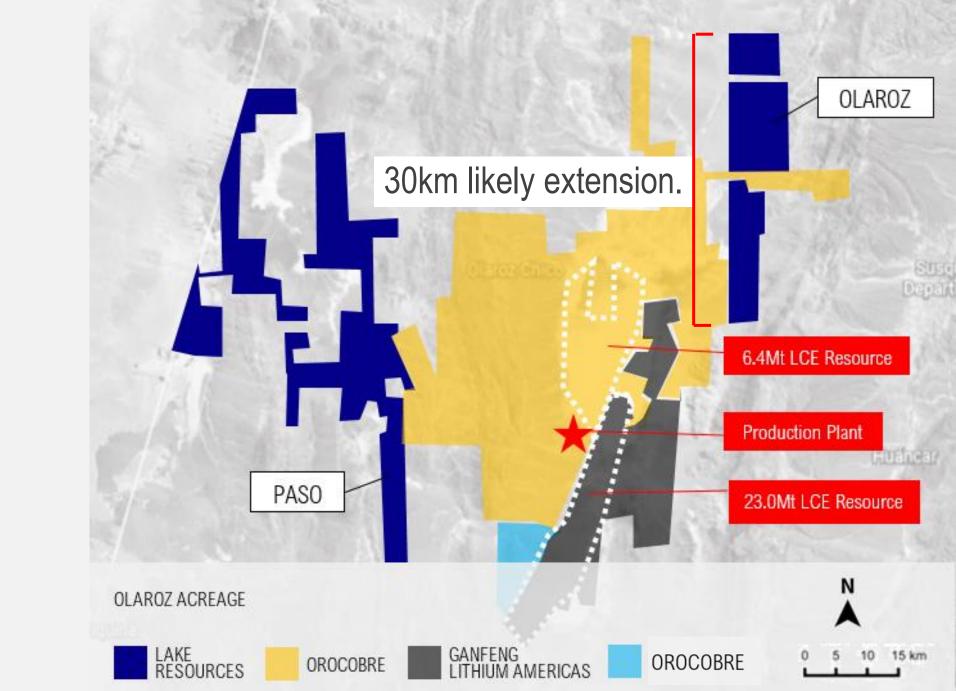


Olaroz Project.



Source: Jujuy Registro Grafico; Company disclosures

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Leadership

Board background in resources and Argentina. New COO. On site team being expanded for construction



Steve Promnitz CEO & MANAGING DIRECTOR

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

E S O U R C E S



Stu Crow CHAIRMAN NON-EXEC

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



Dr Nicholas Lindsay EXEC TECHNICAL DIRECTOR

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



Dr Robert Trzebski NON-EXEC DIRECTOR

International mining executive; 30 years experience in operational, commercial and technical roles in global mining incl. Argentina. Extensive global contacts. Chief Operating Officer of Austmine.



Sra Amalia Saenz NON-EXEC DIRECTOR

Experienced energy/natural resources lawyer based in Buenos Aires, Argentina. Partner at law firm, Zang, Bergel & Viñes. Previously worked as Legal Manager in Central Asia and UK.



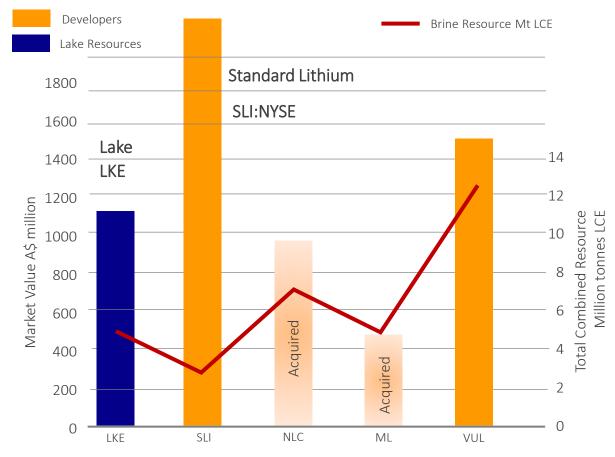
Gautam Parimoo CHIEF OPERATING OFFICER

Successful project director. 25 years in Latin America. Incl studies, construction & preproduction of several large-scale projects in South America.

Significant Upside

- Lake Trading ~50% NPV8 (w/o expansion) vs Peers 60-100⁺% NPV8
- Lake Market Value A\$1100m
 vs DLE Peers at A\$2250m (SLI.NYSE)
- Research with price targets \$1.10-\$1.89 per share (Roth Capital, Red Cloud, Orior Capital)

Lithium Developer Peers Market Value vs Brine Resource





CLEANER LITHIUM FOR AN ELECTRIC WORLD

- World's highest purity lithium
- Technology-led direct extraction
- Major ESG benefits
- New independent clean producer
 at scale

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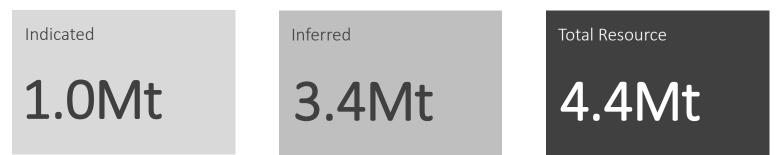


Appendices

Mineral Resource (JORC Code 2012)

Kachi Project

Lithium carbonate equivalent (LCE)



KACHI LITHIUM BRINE PROJECT		MINERAL RESOURCE ESTIMATE				
JORC Code 2012 Edition	Indi	cated	Inferred		Total Resource	
Area, km ²	1	7.1	1	.58.3	1	75.4
Aquifer volume, km ³	6		41		47	
Brine volume, km ³	0.65			3.2	3.8	
Mean drainable porosity %	10.9			7.5	7.9	
Element	Li	К	Li	К	Li	К
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		00,000			
Potassium Chloride, tonnes	6,70	5,000	24,0	000,000	30,7	700,000
Lithium is converted to lithium carbonate (Li2CO3) with a co Potassium is converted to potassium chloride (KCl) with a co						

Lake Lithium Carbonate High Purity

Chemical Component	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 announcement 20/10/2020



JORC Code 2012

RESOURCES CLEANER LITHIUM RESOURCES

Appendix 1 - Kachi Project

Criteria	Section 1 - Sampling Techniques and Data	Criteria	Section 2 - Mineral Tenement and Land Tenure Status	Mining factors or assumptions	 The resource has been quoted in terms of brine volume, concentration of dissolved element contained lithium and potassium and their products lithium carbonate and potassium chloride.
Sampling techniques	Brine samples were taken from the diamond drill hole with a bottom of hole spear point during advance	Mineral tenement and	The Kachi Lithium Brine project is located approximately 100km south-southwest of Livent' (FMC's)	Lanompriorits	 No mining or recovery factors have been applied although the use of the specific yield (drainab
	and using a straddle packer device to obtain representative samples of the formation fluid by purging	land tenure status	Hombre Muerto lithium operation and 45km south of Antofagasta de la Sierra in Catamarca province		porosity) is used to reflect the reasonable prospects for economic extraction with the proposed minir
	a volume of fluid from the isolated interval, to minimize the possibility of contamination by drilling fluid then taking the sample. Low pressure airlift tests are used as well. The fluid used for drilling is brine		of north western Argentina at an elevation of approximately 3,000m asl.		methodology. (Recoveries of 83% lithium have been used in the PFS for the direct processing metho
	sourced from the drill hole and the return from drillhole passes back into the excavator dug pit lined		The project comprises approximately 70,462 Ha in thirty seven mineral leases (minas) of which five		· Dilution of brine concentrations may occur over time and typically there are lithium and potassiu
	sourced from the drill hole and the return from drillhole passes back into the excavator dug pit lined to avoid leakage.		leases (9,445 Ha) are granted for drilling, twenty two leases are granted for initial exploration (44,328		losses in both the storage ponds and processing plant in brine extraction operations. However,
	 The brine sample was collected in a clean plastic bottle (1 litre) and filled to the top to minimize air 		Ha) and ten leases (16,689 Ha) are applications pending granting.		potential dilution will be estimated in the groundwater model simulating brine extraction.
	 The ball ball was contended in a clean plastic bolice (1 inde) and inter to the top to minimize an space within the bottle. A duplicate was collected at the same time for storage and submission of 				 The conceptual mining method is recovering brine from the Salt Lake via a network of wells,
	duplicates to the laboratory. Each bottle was taped and marked with the sample number.		The tenements are believed to be in good standing, with statutory payments completed to relevant		established practice on existing lithium and potash brine projects.
	 Drill core in the hole was recovered in 1.5 m length core runs in core split tubes to minimize sample 		government departments.		 Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define textractable resources and potential extraction rates.
	disturbance.	Exploration by othe	 Marifil Mines Ltd conducted sparse near-surface pit sampling of groundwater at depths less than 1m 	Metallurgical factors or	
	 Drill core was undertaken to obtain representative samples of the sediments that host brine. 	parties	during 2009.	assumptions	 Lithium carbonate is targeted as the commercial product. It would be obtained by the brines being subjected to direct lithium extraction (ionic exchange a
Drilling techniques	 Diamond drilling with an internal (triple) tube was used for drilling. The drilling produced cores with 		Samples were taken from each hole and analysed at Alex Stewart laboratories in Mendoza Argentina.	ussumptions	 It would be obtained by the brines being subjected to direct influm extraction (ionic exchange a reverse osmosis) to produce a high grade LiCl eluate (30,000 to 60,000 mg/L lithium), which
contraction of the second seco	variable core recovery, associated with unconsolidated material, in particularly sandy intervals.		 Results were reported in an NI 43-101 report by J. Ebisch in December 2009 for Marifil Mines Ltd. 		processed in a conventional lithium carbonate plant by reaction with sodium carbonate:
	Recovery of these more friable sediments is more difficult with diamond drilling, as this material can		 NRG Metals Inc commenced exploration in adjacent leases under option. Two diamond drillholes 		LiCl + Na2CO1 → Li2CO1 + NaCl
	be washed from the core barrel during drilling.				 Process work has been undertaken by Lilac Solutions, which is an expert laboratory in the treatment
	 Rotary drilling has used 8.5" or 10" tricone bits and has produced drill chips. 		intersected lithium bearing brines. The initial drillhole intersected brines from 172-198m and below		brines by ion exchange.
	 Brine has been used as drilling fluid for lubrication during drilling. 		with best results to date of 15m at 229 mg/L Lithium, reported in December 2017. The second hole,		· Bench tests include short and long-term tests using ion exchange media and brine from Kachi
Drill sample recovery	 Diamond drill core was recovered in 1.5m length intervals in the drilling triple (split) tubes. Appropriate 		drilled to 400 metres in mid-2018, became blocked at 100 metres and could not be sampled. A VES		establish recovery, reagent consumption, and engineering parameters used in the PFS
	additives were used for hole stability to maximize core recovery. The core recoveries were measured		ground geophysical survey was completed prior to drilling. A NI 43-101 report was released in February		 Analyses of solutions by ICP and includes the use of standards
	from the cores and compared to the length of each run to calculate the recovery. Chip samples are		2017.		 The longevity of the ion exchange media has been tested over 1000 cycles, or six months
	collected for each metre drilled and stored in segmented plastic boxes for rotary drill holes.		 No other exploration results were able to be located 		 Lithium carbonate of high purity and low impurities has been produced which can be consider
	Brine samples were collected at discrete depths during the drilling using a double packer over a 1 m	Geology	The known sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated		equivalent to metallurgical test work) is being carried out on the brine following initial test work.
	interval (to isolate intervals of the sediments and obtain samples from airlifting brine from the	2000gy	 The known sediments within the salar consist of salt/haite, clay, sand and sit horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines. 		Pilot plant module test-work has commenced using Kachi brine using Lilac Solutions ion exchange directly and the second sec
	sediments within the packer).				extraction method. 20,000 litres of Kachi brine was being processed by Lilac into concentrated lithin
	As the brine (mineralisation) samples are taken from inflows of the brine into the hole (and not from		Brines within the Salt Lake are formed by solar concentration, interpreted to be combined with warm		chloride (eluate).
	the drill core - which has variable recovery) they are largely independent of the quality (recovery) of		geothermal fluids, with brines hosted within sedimentary units.		Hazen Research Inc has demonstrated the conversion of lithium chloride from the pilot module in
	the core samples. However, the permeability of the lithologies where samples are taken is related to		 Geology was recorded during the diamond drilling and from chip samples in rotary drill holes. 		larger volumes of high purity lithium carbonate with purity >99.97% with very low levels of impuriti
	the rate and potentially lithium grade of brine inflows.	Drill hole Information	 15 drill holes completed, totalling 3150 metres with varying depths up to 403 metres. 		 Hazen processed the eluate from Lilac to produce the lithium carbonate sample using reduction water through processed in the product with and the balance of a single and and a single and and a single and and a single and a sin
Logging	 Sand, clay, silt, salt and cemented rock types was recovered in a triple tube diamond core drill tube, or 		Lithological data was collected from the holes as they were drilled and drill cores or chip samples were		water through evaporation, treatment with sodium hydroxide and soda ash, ion exchange precipitation, filtering and recrystallization.
	as chip samples from rotary drill holes, and examined for geologic logging by a geologist and a photo		retrieved. Detailed geological logging of cores is ongoing.		 precipitation, filtering and recrystallization. Due to the high purity of the lithium carbonate, the lithium is reported as 100% minus the sum
	taken for reference.		 All drill holes are vertical, (dip -90, azimuth 0 degrees). 		 Due to the high purity of the lithium carbonate, the lithium is reported as 100% minus the sum impurities. ICP-MS and ICP-AES assays from the Hazen Research lab were used to assess impuriti
	 Diamond holes are logged by a senior geologist who also supervised taking of samples for laboratory 	Data aggregation	 Assay averages have been provided where multiple sampling occurs in the same sampling interval. 		Titration (acidimetric titration with HCI) was performed for total Lithium, run in duplicate and result
	porosity analysis as well as additional physical property testing.	methods			in assays of 100.2 wt% and 100.3 wt.%. This is the accepted assay technique for larger lithin
	 Logging is both qualitative and quantitative in nature. The relative proportions of different lithologies 	Relationship between	 Mineralisation interpreted to be horizontally lying and drilling perpendicular to this. 		carbonate samples.
	which have a direct bearing on the overall porosity, contained and potentially extractable brine are	mineralisation widths			To ensure consistency of the processing and analysis with industry standards, Dr Nick Welham v
	noted, as are more qualitative characteristics such as the sedimentary facies and their relationships.	and intercept lengths			consulted and reviewed the results and calculations of purity.
	When cores are split for sampling they are photographed.	Diagrams	 A drill hole location plan is provided showing the locations of the drill platforms. Individual drill 		 This work is yet to be integrated into the resource model.
	 Brine samples were collected by packer and spear sampling methods, over a metre. Low pressure airlift 		locations are provided in Table 1.	Environmental factors as	· Impacts of a lithium operation at the Kachi project would include surface disturbance from t
and sample preparation	tests are used as well to purge test interval and gauge potential yields.	Balanced reporting	 Brine assay results are available from 15 drill holes from the drilling to date, reported here. 	assumptions	installation of extraction/processing facilities and associated infrastructure, accumulation of vario
	The brine sample was collected in one-litre sample bottles, rinsed and filled with brine. Each bottle was	Other substantive	 There is no other substantive exploration data available regarding the project. 		salt tailings impoundments and extraction from brine and fresh water aquifers regionally.
	taped and marked with the sample number.	exploration data			 Environmental management plan for the protection of wetlands, salt lakes, and surrounds.
	 The Alex Stewart Argentina/Nor lab SA in Palpala, Jujuy, Argentina, is used as the primary laboratory 	Further work	 Further water well drilling is planned to expand the resource and test pumping rates. 		 Consultation with communities in the area of influence of the project.
laboratory tests	to conduct the assaying of the brine samples collected as part of the sampling program. The SGS				Environmental impact analysis on-going.
	laboratory in Buenos Aires has also been used for both primary and check samples. They also analysed blind control samples and duplicates in the analysis chain.	Criteria	Section 3 – Estimation and Reporting of Mineral Resources	Bulk density	Density measurements were taken as part of the drill core assessment. This included determining d
	 The Alex Stewart/Norlab SA laboratory and the SGS laboratory are ISO 9001 and ISO 14001 certified, 	Database integrity	Data was transferred directly from laboratory spreadsheets to the database.		density and particle density as well as field measurements of brine density. Note that no mining is be carried out as brine is to be extracted by pumping and consequently sediments are not mined
	 The Alex Stewart/Nonab SA laboratory and the SGS laboratory are ISO 9001 and ISO 14001 certified, and are specialized in the chemical analysis of brines and inorganic salts, with experience in this field. 	botobuse integrity	 Data was checked for transcription errors once in the database to ensure coordinates, assay values, 		 No bulk density was applied to the estimates because resources are defined by volume, rather than by tonnage.
	This includes the oversight of the experienced Alex Stewart Argentina S.A. laboratory in Mendoza,		 Data was checked for transcription errors once in the database to ensure coordinates, assay values, and lithological codes were correct. 	Classification	 The resource has been classified into the two possible resource categories based on confidence in the
	Argentina, which has been operating for a considerable period.				estimation.
	 The quality control and analytical procedures used at the Alex Stewart/Norlab SA laboratory or SGS 		 Data was plotted to check the spatial location and relationship to adjoining sample points. 		· A Measured resource would reflect higher density drilling, with porosity samples from drill cores an
	laboratory are considered to be of high quality and comparable to those employed by ISO certified		 Duplicates and standards have been used in the assay process. 		well constrained vertical brine sampling in the holes.
	laboratories specializing in analysis of brines and inorganic salts.		Brine assays and porosity test work have been analysed and compared with other publicly available		The Indicated resource reflects the higher confidence in the brine sampling in the rotary drilling as
Verification of sampling	Field duplicates, standards and blanks will be used to monitor potential contamination of samples and		information for reasonableness.		lower quality geological control from the drill cuttings.
and assaying	the repeatability of analyses. Accuracy, the closeness of measurements to the "true" or accepted value,		 Comparison of original and current datasets were made to ensure no lack of integrity. 		
una assaying		Site visits	The Competent Person visited the site multiple times during the drilling and sampling program		 The Inferred resource underlying the Measured and/or Indicated resource reflects the limited drilli
	will be monitored by the insertion of standards, or reference samples, and by check analysis at an		 Some improvements to procedures were made during visits by the Competent Person 		to this depth together with the geophysics through the property.
	independent (or umpire) laboratory.	Geological Interpretation	The geological model is continuing to develop. There is a high level of confidence in the interpretation		 In the view of the Competent Person the resource classification is believed to adequately reflect to
	Duplicate samples in the analysis chain were submitted to Alex Stewart/Norlab SA or SGS laboratories	standyrea merpretation	 The geological model is continuing to develop. There is a high level of confidence in the interpretation of the exploration results to date. There are relatively consistent geological units with relatively 		available data and is consistent with the suggestions of Houston et. al., 2011
	as unique samples (blind duplicates) during the process		of the exploration results to date. There are relatively consistent geological units with relatively uniform clastic sediments	Audits or reviews	 The Mineral Resource was estimated by the Competent Person.
	 Stable blank samples (distilled water) were used to evaluate potential sample contamination and will 				
			 Any alternative interpretations are restricted to smaller scale variations in sedimentology, related to the sedimentation of the set of the s	Discussion of relative	 An independent estimate of the resource was completed using a nearest neighbour estimate and to
	be inserted in future to measure any potential cross contamination		changes in grain size and fine material in units	accuracy/ confidence	comparison of the results with the ordinary kriging estimate is below 0.3% for measured resources a
	 Samples were analysed for conductivity using a hand-held Hanna pH/EC multiprobe. 		 Data used in the interpretation includes rotary and diamond drilling methods 		below 3% for indicated resources which is considered to be acceptable.
	 Regular calibration using standard buffers is being undertaken. 		 Drilling depths and geology encountered has been used to conceptualise hydro-stratigraphy 		 Univariate statistics for global estimation bias, visual inspection against samples on plans and section
Location of data points	 The diamond drill hole sample sites and rotary drill hole sites were located with a hand-held GPS. 		Sedimentary processes affect the continuity of geology, whereas the concentration of lithium and		
Location of data points			potassium and other elements in the brine is related to water inflows, evaporation and brine evolution		swath plots in the north, south and vertical directions to detect any spatial bias shows a go
	The properties are located at the junction of the Argentine POSGAR grid system Zone 2 and Zone 3		in the Salt Lake.		agreement between the samples and the ordinary kriging estimates.
	(UTM 19) and in WGS84 Zone 19 south.	Dimensions	 The lateral extent of the resource has been defined by the boundary of the Company's properties. The 		
Data spacing and	Brine samples were collected over 1m intervals every 6 m intervals within brine producing aquifers,	<i>Duffensions</i>	 The lateral extent of the resource has been defined by the boundary of the Company's properties. The brine mineralisation subsequently covers 175 km². 		
distribution	where this was possible.				
			The top of the model coincides with the topography obtained from the Shuttle Radar Topography		
Orientation of data in	 The salt lake (salar) deposits that contain lithium-bearing brines generally have sub-horizontal beds 		Mission (SRTM). The original elevations were locally adjusted for each borehole collar with the most		
relation to geological	and lenses that contain sand, gravel, salt, silt and clay. The vertical diamond drill holes will provide a		accurate coordinates available. The base of the resource is limited to a 400 m depth. The basement		
structure	better understanding of the stratigraphy and the nature of the sub-surface brine bearing aquifers		rocks underlying the Salt Lake sediments have been intercepted in drilling.		
Sample security	 Samples were transported to the Alex Stewart/Norlab SA laboratory or SGS laboratory for chemical 		The resource is defined to a depth of 400 m below surface, with the exploration target immediately		
Sumple security			extending beyond the aerial extent of the resource.		
	analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly identified. Samples were	Estimation and modelling	No grade cutting or capping was applied to the model.		
		techniques			
	transported by a trusted member of the team.	recranques	 No assumptions were made about correlation between variables. Lithium and potassium were estimated independently. 		
	The samples were moved from the drillhole sample site to secure storage at the camp on a daily basis.				
	 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 		The geological interpretation was used to define each geological unit and the property limit was used		
	The samples were moved from the drillhole sample site to secure storage at the camp on a daily basis.				
	 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. 	Moisture	 The geological interpretation was used to define each geological unit and the property limit was used to enclose the reported resources. 		
	 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. No audit of data has been conducted to date. However, the CP has been onsite periodically during the 		 The geological interpretation was used to define each geological unit and the property limit was used to enclose the reported resources. Moisture content of the cores was not Measured (porosity and density measurements were made), 		
	 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. No audit of data has been conducted to date. However, the CP has been onsite periodically during the programme. The review included drilling practice, geological logging, sampling methodologies for 		The geological interpretation was used to define each geological unit and the property limit was used to enclose the reported resources. Moisture content of the cores was not Measured (porosity and density measurements were made), but as brine will be extracted by pumping not mining this is not relevant for the resource estimation.		
Review (and Audit)	 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. No audit of data has been conducted to date. However, the CP has been onsite periodically during the 		 The geological interpretation was used to define each geological unit and the property limit was used to enclose the reported resources. Moisture content of the cores was not Measured (porosity and density measurements were made), 		

	methodology. (Recoveries of 83% lithium have been used in the PFS for the direct processing method)
	Dilution of brine concentrations may occur over time and typically there are lithium and potassium
	losses in both the storage ponds and processing plant in brine extraction operations. However,
	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
	established practice on existing lithium and potash brine projects.
	 Detailed hydrological studies of the lake are being undertaken (groundwater modelling) to define the
tors or	extractable resources and potential extraction rates.
tors or	Lithium carbonate is targeted as the commercial product.
	 It would be obtained by the brines being subjected to direct lithium extraction (ionic exchange and reverse osmosis) to produce a high grade LiCl eluate (30,000 to 60,000 mg/L lithium), which is
	processed in a conventional lithium carbonate plant by reaction with sodium carbonate:
	LiCl + Na ₂ CO ₃ → Li ₂ CO ₃ + NaCl
	 Process work has been undertaken by Lilac Solutions, which is an expert laboratory in the treatment of
	brines by ion exchange.
	· Bench tests include short and long-term tests using ion exchange media and brine from Kachi to
	establish recovery, reagent consumption, and engineering parameters used in the PFS
	 Analyses of solutions by ICP and includes the use of standards
	 The longevity of the ion exchange media has been tested over 1000 cycles, or six months
	· Lithium carbonate of high purity and low impurities has been produced which can be considered
	equivalent to metallurgical test work) is being carried out on the brine following initial test work.
	Pilot plant module test-work has commenced using Kachi brine using Lilac Solutions ion exchange direct
	extraction method. 20,000 litres of Kachi brine was being processed by Lilac into concentrated lithium
	chloride (eluate).
	 Hazen Research Inc has demonstrated the conversion of lithium chloride from the pilot module into
	larger volumes of high purity lithium carbonate with purity >99.97% with very low levels of impurities.
	 Hazen processed the eluate from Lilac to produce the lithium carbonate sample using reduction of
	water through evaporation, treatment with sodium hydroxide and soda ash, ion exchange,
	precipitation, filtering and recrystallization.
	 Due to the high purity of the lithium carbonate, the lithium is reported as 100% minus the sum of impurities. ICP-MS and ICP-AES assays from the Hazen Research lab were used to assess impurities.
	Titration (acidimetric titration with HCl) was performed for total Lithium, run in duplicate and resulted
	in assays of 100.2 wt% and 100.3 wt.%. This is the accepted assay technique for larger lithium
	carbonate samples.
	 To ensure consistency of the processing and analysis with industry standards. Dr Nick Welham was
	consulted and reviewed the results and calculations of purity.
	 This work is yet to be integrated into the resource model.
ors as	· Impacts of a lithium operation at the Kachi project would include surface disturbance from the
	installation of extraction/processing facilities and associated infrastructure, accumulation of various
	salt tailings impoundments and extraction from brine and fresh water aquifers regionally.
	 Environmental management plan for the protection of wetlands, salt lakes, and surrounds.
	 Consultation with communities in the area of influence of the project.
	 Environmental impact analysis on-going.
	 Density measurements were taken as part of the drill core assessment. This included determining dry
	density and particle density as well as field measurements of brine density. Note that no mining is to
	be carried out as brine is to be extracted by pumping and consequently sediments are not mined
	 No bulk density was applied to the estimates because resources are defined by volume, rather than by tonnage.
	 The resource has been classified into the two possible resource categories based on confidence in the estimation.
	 A Measured resource would reflect higher density drilling, with porosity 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 Inferred resource underlying the Measured and/or Indicated resource reflects the limited drilling
	to this depth together with the geophysics through the property.
	 In the view of the Competent Person the resource classification is believed to adequately reflect the
	available data and is consistent with the suggestions of Houston et. al., 2011
	 The Mineral Resource was estimated by the Competent Person.
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lative	 An independent estimate of the resource was completed using a nearest neighbour estimate and the
ce	comparison of the results with the ordinary kriging estimate is below 0.3% for measured resources and
	below 3% for indicated resources which is considered to be acceptable.
	Univariate statistics for global estimation bias, visual inspection against samples on plans and sections,
	swath plots in the north, south and vertical directions to detect any spatial bias shows a good
	agreement between the samples and the ordinary kriging estimates.

ASX: LKE OTC: LLKKF SLIDE / 37