

Rebecca Holland Kennedy
Managing Director

Pepinini
Lithium Limited



Annual General Meeting - 14 November 2019

PepinNini Projects

AUSTRALIA



ARGENTINA



PepinNini



PepinNini Board of Directors



Rebecca Holland-Kennedy

B.Sc., B.Arts, MAusIMM,
GAICD

**Executive Chairman
and Managing
Director,
Co-founder**

Geologist with more
than 35 years
experience in
exploration and
management.



Sarah Clifton-Brown

B.Arts,(Hons) Accountancy,
FCCA, GAICD

**Non- Executive
Director -**

Fellow of the Chartered
Certified Accountants
with more than 14
years experience in
company
administration, financial
reporting and analysis.



Phil Clifford

B.Sc., MAusIMM

**Non-Executive
Director -**

Geologist with more
than 25 years
experience in
exploration
management within
Australia;15 years
with Rio Tinto.



Justin Nelson

B.Arts(Jurisprudence)LLB

Company Secretary

Lawyer, previously
ASX State Manager,
SA and Manager,
Listings (Adelaide).
He has extensive
knowledge of ASX
listing rules and is a
Special Council with
DMAW Lawyers.



Ignacio Celorrio

LLB/JD Partner

**Director
PepinNini SA**

Lawyer with Quevedo
Abogados
Buenos Aires.
*Distinguished
Leading Individual* in
areas of Energy and
Natural Resources in
Argentina

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PepinNini Lithium Ltd – ASX:PNN

**PepinNini
Lithium
Limited PNN**
15 Aug 2002
ABN 55 101 714 989
100% PNN - 1 Granted Tenement
Toondulya Bluff Project

NiCul Minerals Ltd - NCL
30 Aug 2006
formerly PepinNini Resources Pty Ltd PNNR
ABN 86 121 492 019
100% PNN
Manager Musgrave JV
South Australia
2 Granted tenements
8 Applications

**PepinNini Resources
Curnamona Pty Ltd - PRC**
3 Nov 2006
ABN 64 122 529 168
100% PNN

**PepinNini Robinson Range Pty
Ltd PRR**
12 Feb 2010
ABN 88 142 023 023
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**PepinNini Minerals International
Pty Ltd - PMI**
19 Jul 2010
ACN 145 294 631
100% PNN

PepinNini QLD Pty Ltd - PNQ
ABN 20 148 959 773
25 Jan 2011
100 % PNN

Musgrave JV - JV02
Rio Tinto Exploration Pty Ltd
current 100%
NiCul Minerals Ltd
earning 51%
South Australia
4 Applications



**Argentina
PepinNini S.A.**
(Sociedad Anonima) - PNN SA
Inc # 3804 Book 53 - 3 Mar 2011
CUIT 33-71222954-9
95% PMI
5% R Holland-Kennedy
14 Granted Mina

PepinNini



Salta Lithium Brine Project – Snapshot

ARGENTINA

JORC 2012 compliant Lithium carbonate (LCE) Resources on two projects totalling 239,000 tonnes – 63% Measured & Indicated Grade up to 313mg/l Lithium –

Brine blend simulation indicates enriched brine evaporate of 3.05% Lithium – 30,500ppm and low Magnesium:Lithium 1.6:1



Lithium Carbonate Resource

Lithium Carbonate Resource

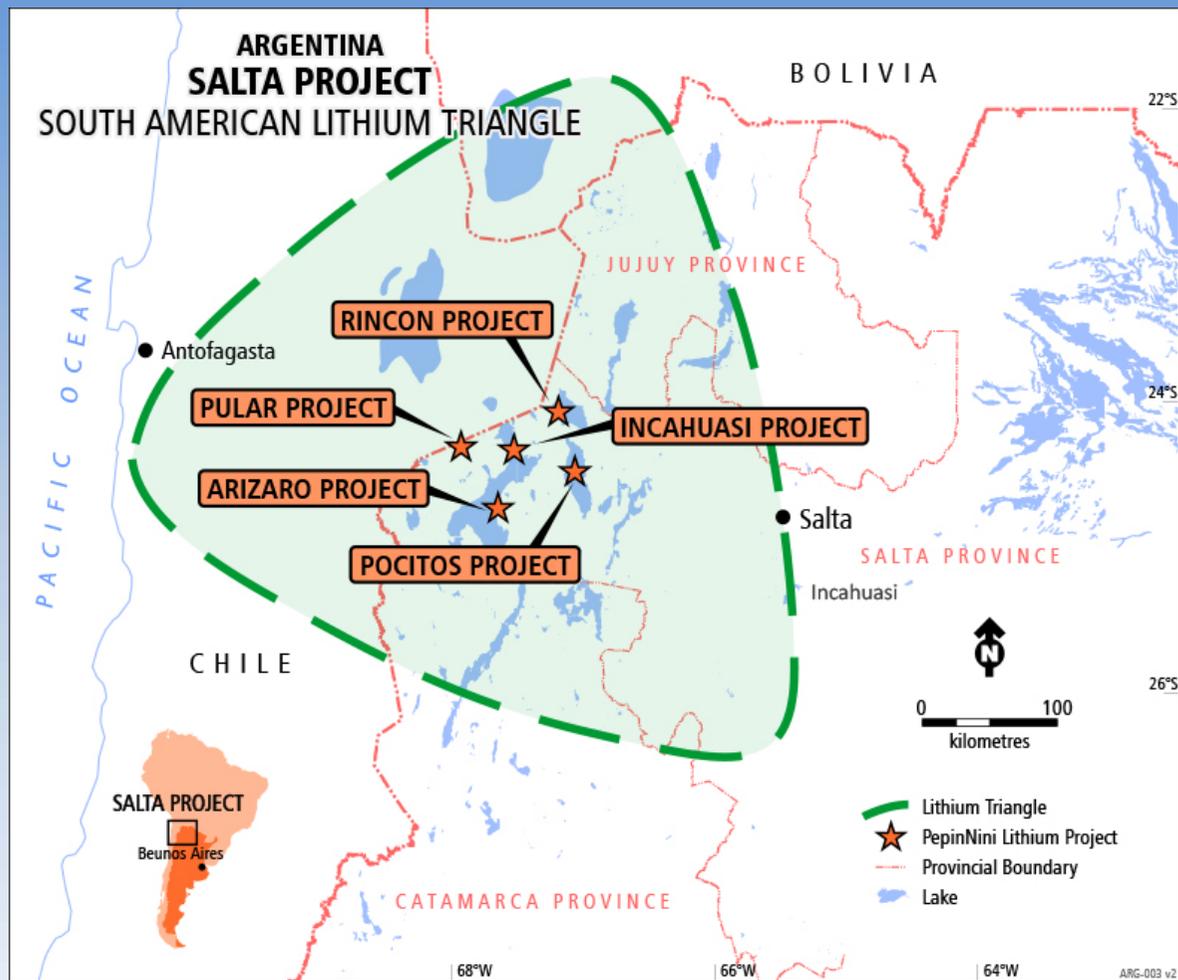
Geophysical TEM survey indicating two distinct lithium aquifer zones

Pepinini



Salta Lithium Brine Project

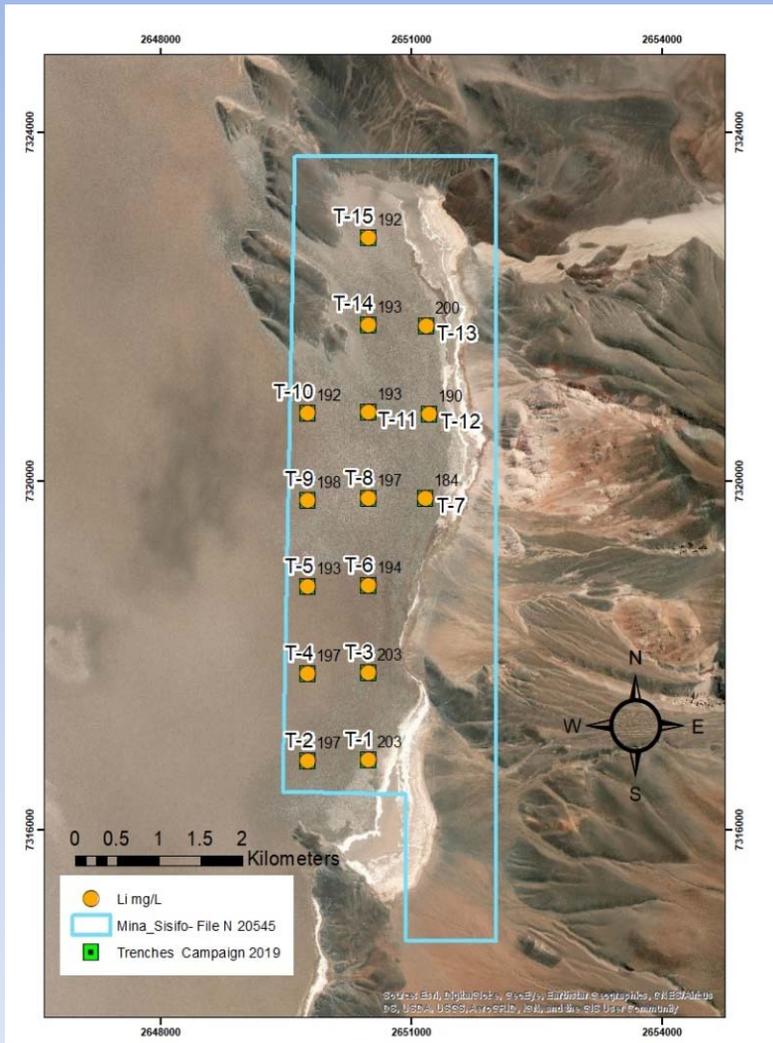
- 9 mining leases(minas) of 20,840 ha – 100% PNN SA
- Within Lithium Triangle which holds 65% of global Lithium
- Within *mining friendly* Salta Province



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Salar de Incahuasi Project



- ✓ Geophysical TEM survey indicates two distinct lithium aquifer zones
- ✓ Surface trench sampling indicates upper aquifer containing brine close to the surface up to 203mg/l
- ✓ Second deeper aquifer to be sampled

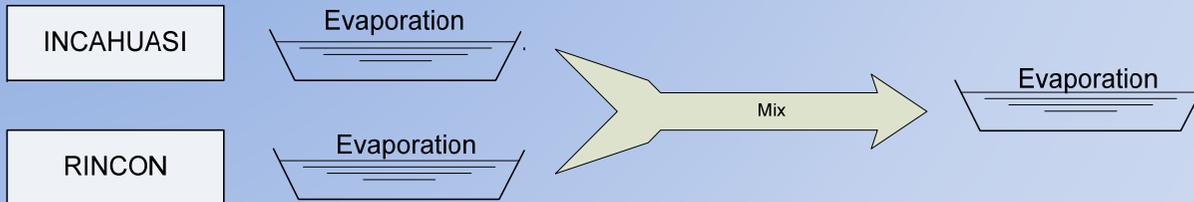


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Brine Blending Simulation Studies

- ✓ Blend of brine from Rincon and Incahuasi projects simulates evaporation concentration process
- ✓ Unique Chemistry Compliment
- ✓ Reduced Contaminates and Enriched Concentrate Product



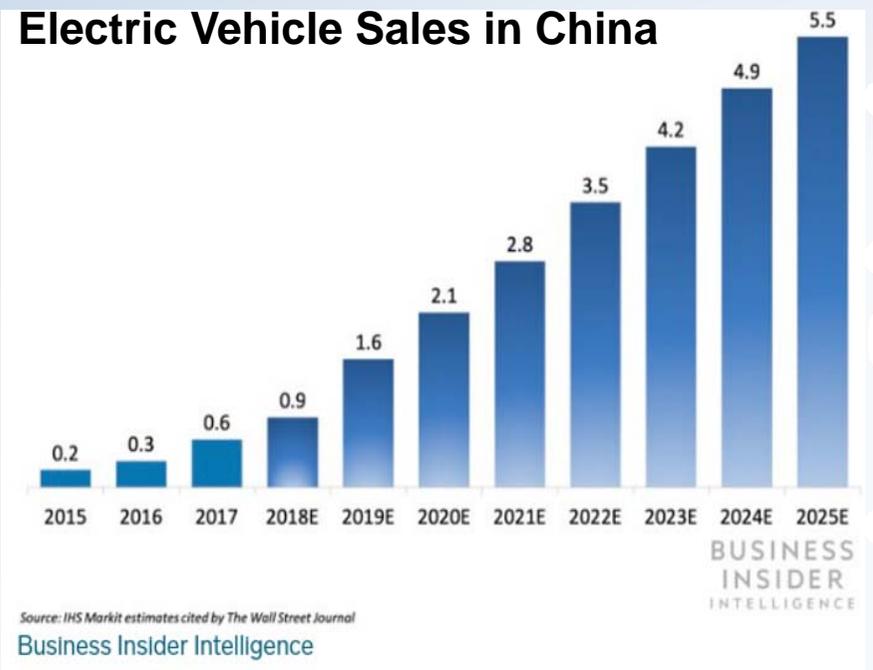
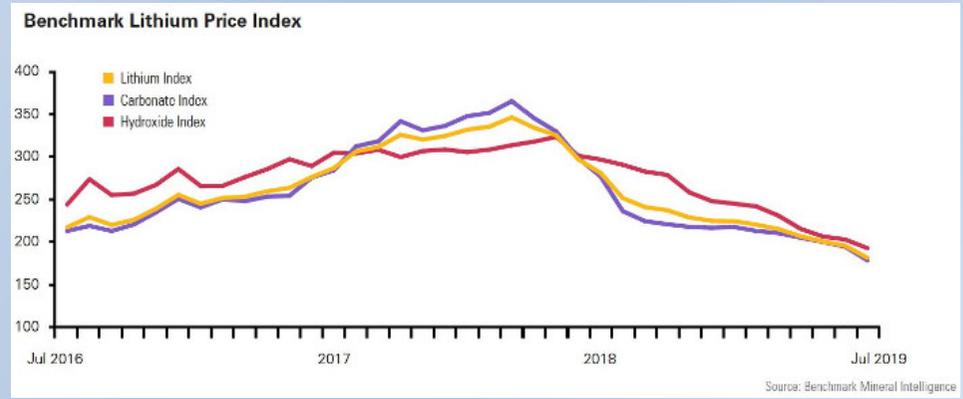
	H ₂ O Water %	Li Lithium %	Na Sodium %	K Potassium %	Ca Calcium %	Mg Magnesium %	Cl Chloride %	SO ₄ Sulphate %	BO ₂ Borate %
Final Brine	59.61	3.05	0.12	0.11	0.47	5.04	31.42	0.005	0.00003

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Lithium Outlook 2020

Since 2017 The lithium price has dropped BUT



- ❑ **EV sales topped 1.2 million cars in China in 2018,**
- ❑ **global fleet of electric vehicles is expected to triple by 2030, with demand growing at an average yearly pace of 24%.**
- ❑ **the world will require more than 10 new battery gigafactories by 2025.**

(International Energy Agency)



Lithium Outlook 2020

SUPPLY

- ❑ *China controls over half of the world's lithium production after last year's \$4 billion deal by Tianqi Lithium to become the second-largest shareholder in SQM*
- ❑ *In Argentina's mining sector, China has more than \$391 million committed to exploration project development(Ganfeng)*
- ❑ *Russia's state-owned Rosatom recent deal will ultimately give Russia 51% ownership in the Atacama lithium project in Chile*



Is a lithium shortage on the horizon?



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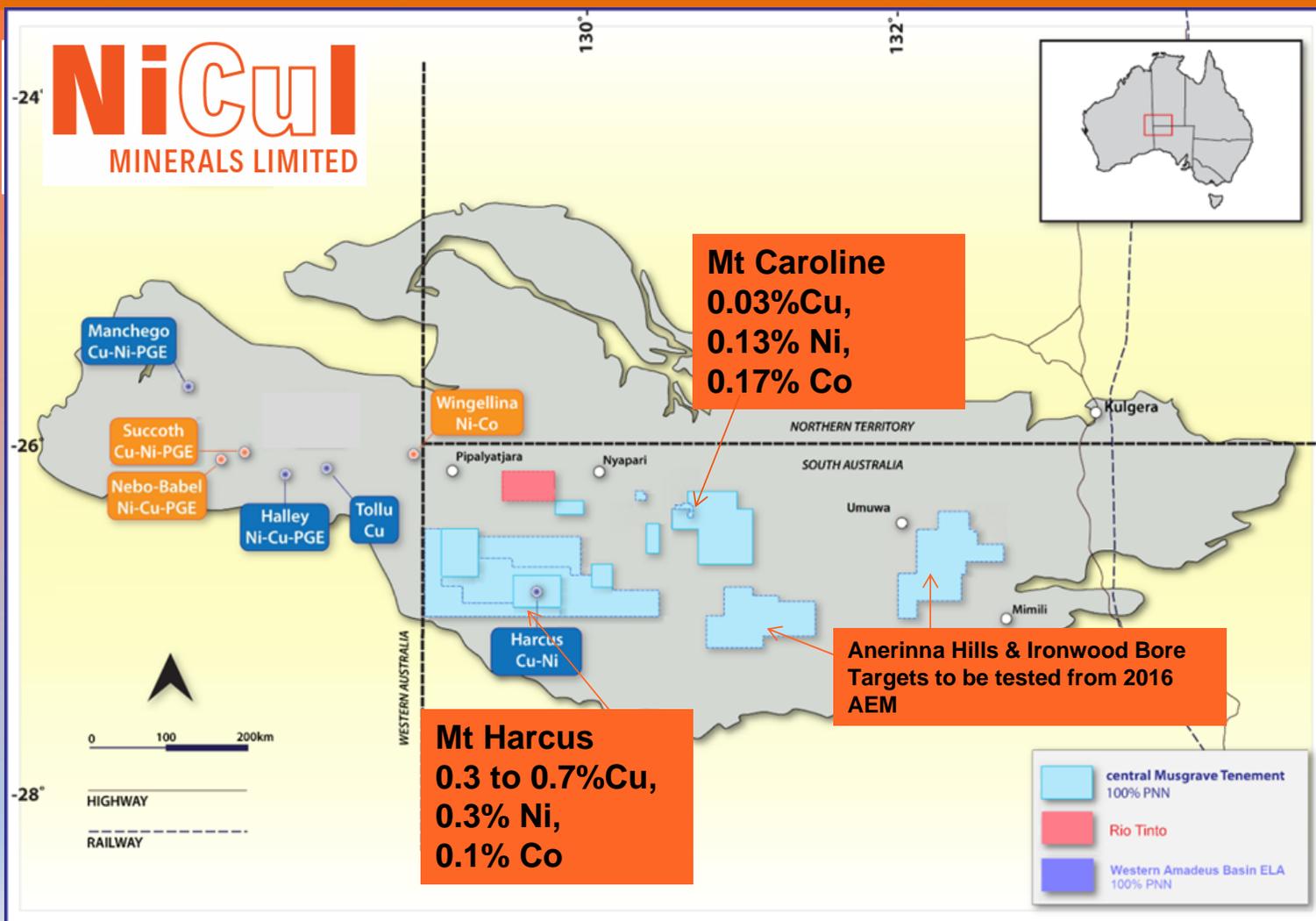


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Musgrave Project – Nickel, Copper and Cobalt



- 11 tenements of 14,003 km² – 100 % NCL – 2 granted ELs
- Targets defined by AEM survey collaboration CSIRO/Geoscience Aust/PNN/SA DEM 2016-2017
- Progressing ELA granting

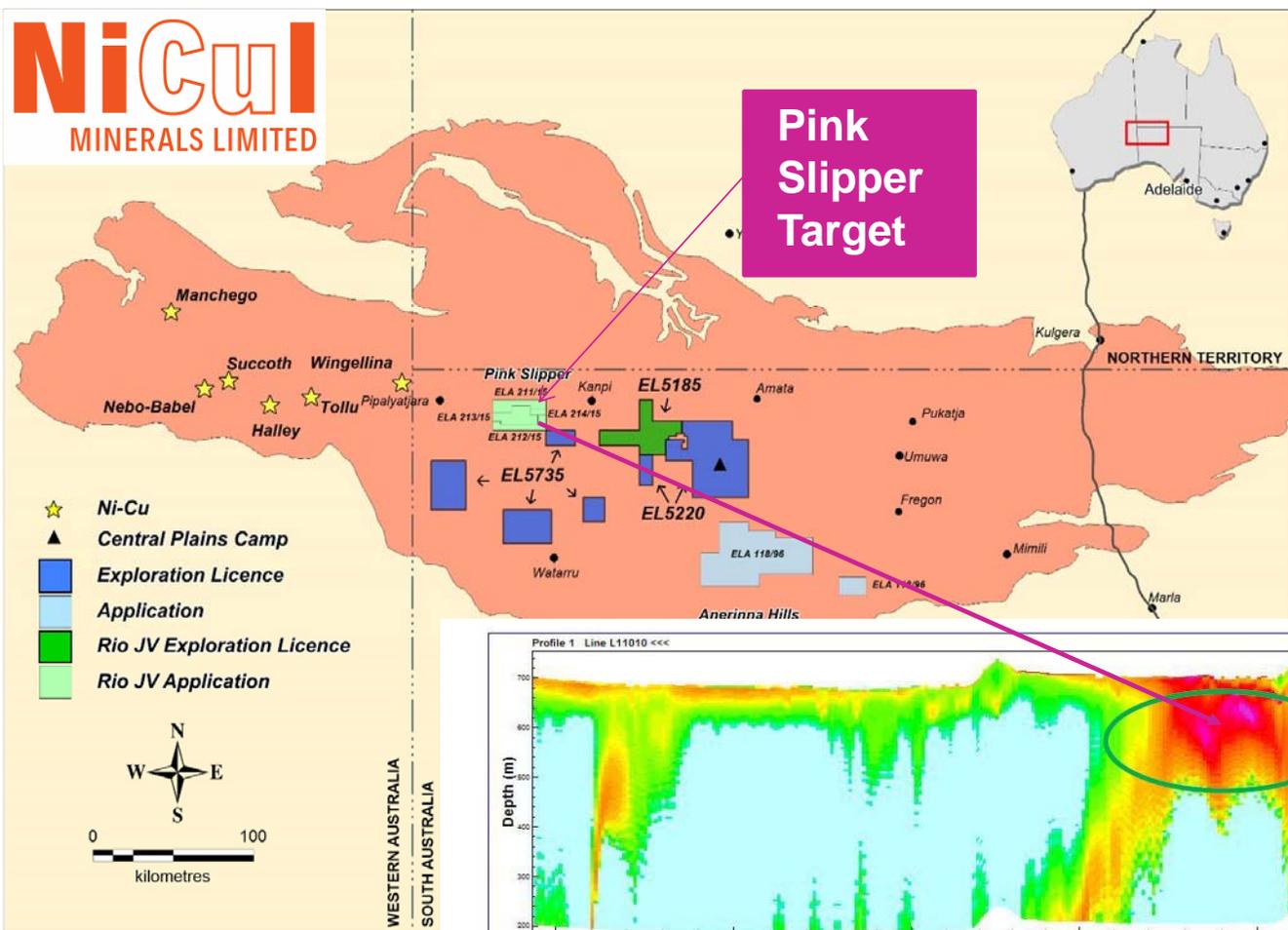


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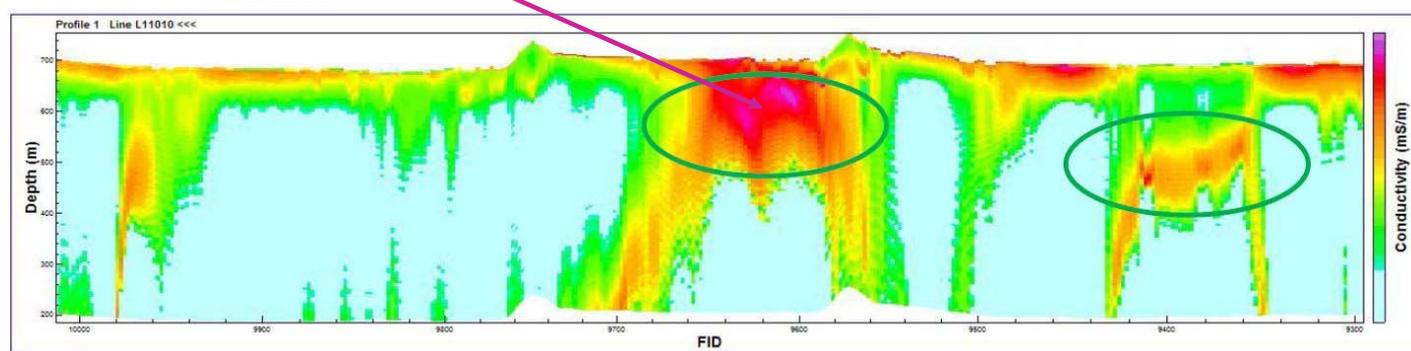


RioTinto Farm-in JV – Nickel, Copper, Cobalt and PGEs

NiCu
MINERALS LIMITED



- ❑ 4 ELAs of 615km²
- ❑ CSIRO geophysical survey (Mar 19) highlights significant anomaly
- ❑ Anangu Pitjantjatjara Yankunytjatjara – traditional owners are progressing the application



courtesy CSIRO Spectrem EM Survey Mar 2019

PepiNini

PepiNini
Lithium Limited



Active Responsible Explorer

- ✓ communication
- ✓ community
- ✓ engagement



PNN team community engagement

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The Year ahead - 2020 subject to funding

✓ Reward Investors



- Pink Slipper ELA granting
- Geophysics Pink Slipper target
- Drill testing Pink Slipper target



- Resource drilling Incahuasi
- Pumping testing Rincon
- Brine Concentration testing



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Thank you



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- The information in this presentation on the Salta Lithium project has been prepared with information compiled by Marcela Casini, MAusIMM. Marcela Casini is the Exploration Manager-Argentina of PepinNini Lithium Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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". Marcela Casini consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.
- The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Philip Clifford BSc MAusIMM. Mr Clifford is a Non-executive Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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". Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

