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ASX RELEASE

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POSITIVE PUMP TESTING RESULT AT MARICUNGA LITHIUM BRINE PROJECT

- Pump test completed on well P4 within Cocina tenement, with pumping sustained between 24 l/s and 25 l/s over 30 days.
- No change in brine concentration over the 30 day pump test, with the concentration averaging 945 mg/l lithium and 6,924 mg/l potassium over the 30 days of pump test
- Pump test only extracted brine from the deeper sand and gravel unit, with the well screen from 66 m to 180 m and no brine extracted from the very high grade upper halite zone
- The brine flow rates recorded at Maricunga (P1, P2, P4) are amongst the highest results publicly released for lithium projects in South America.

Lithium Power International Limited (ASX: LPI) ("LPI" or "the Company") is pleased to advise completion of the pumping test at well P4 at the Maricunga lithium brine project in northern Chile. LPI is very encouraged by the high average brine flow rate, and lithium and potassium grades, which compare very favourably to other lithium brine projects currently in production and in development within South America.

Lithium Power International's Chief Executive Officer, Martin Holland, commented:

"The Maricunga pump test highlights strong brine flow rates, in addition to very high lithium grades, both very positive characteristics of the Maricunga project. The pump test conducted on well P4 confirms the sand and gravel units encountered in recent drilling support high flow rates for brine extraction.

Maricunga Pump Test Well P4

Pump test well P4 was installed in the centre of the old-code Cocina tenement to a depth of 180m (see Figure 5) with hole M10, acting as a monitoring well to the production well P4. During drilling, P4 intersected an upper aquifer with interbedded sediments comprising salt (halite), clay, silt, sand, and minor gravel units from surface to 66m. From 66m to 180m, a more porous aquifer exists, comprising a mix of mainly sand and gravel. It is from this aquifer that pumping was conducted.



P4 was pumped continuously for 30 days at a rate of 24 to 25 litres per second (I/s). (see Figures 3 and 4) Over the 30 days, this brine outflow was continuously monitored for both lithium grade and flow rate. Assays averaged 945 mg/l and showed minor variation over the length of the test, which extracted brine only from the lower aquifer, excluding flows from the highest grade upper aquifer zone.

P4 is located to the north from previous pump test wells P1 and P2, which are located in the Litio tenement, and were pump tested for 14 and 28 days respectively in 2015. At that time, P1 and P2 had brine flows of 37-38 l/s from the combination of the upper halite zone near the surface and from a deeper sand unit, interpreted to be the same as the sand and gravel aquifer found in P4. In this case, P4 is designed to only pump brine from the deeper aquifer, with no contribution from the upper halite aquifer, in order to measure flow rates deeper within the salar.

This recent pump test on P4 confirmed that a high flow rate can be obtained pumping brine exclusively from the deeper sand and gravel aquifer. This is very significant, as the recent drilling in tenements added to the project since definition of the historical resource* (on the Litio tenement) shows sand and gravel are the predominant sediments in these tenements.

Brine Flow Rate Comparison

A simple comparison of flow rates from pump testing at various other lithium brine projects in South America is provided in Table 1. This highlights that Maricunga brine flow rates are amongst the highest observed at lithium projects currently in production or at an advanced stage of development. However, it should be noted that many factors influence the results of pump tests, and the information publicly released is often limited. Procedures used in these third party pump tests have not been verified by LPI and they are provided for general comparative purposes only.

Flow rate I/s	Pump test type	Sediment type	Data source	Duration
		Maricunga project, Chile, Li	thium Power JV	
25	Test production (P4)	Sand, gravel	Lithium Power - this announcement	30 days
38	Test production (P1)	Salt, sand, clay	Lithium Power announcement 13/09/16	14 days
37	Test production (P2)	Salt, sand, clay	Lithium Power announcement 13/09/16	28 days
		Hombre Muerto, Argentina,	FMC and Galaxy	
38	Pre-production	Salt	Sal de Vida NI43-101; Houston and Jaacks, 2010	30 days
15.2	Pre-production	Mixed sediment	Galaxy 10/04/13 announcement	30 days
16	Pre-production	Mixed sediment	Galaxy 10/10/12 announcement	30 days
		Sal de los Angeles (Diablillos), A	rgentina, LithiumX	
8	Airlift over 44 m	Sand, gravel	LithiumX report 29/08/2016 page 79	2 hours
8	Airlift over 42 m	Sand, gravel	LithiumX report 29/08/2016 page 79	65 hours
		Cauchari, Argentina, SQM and	Lithium Americas	
5.8-20	Pre-production PB-03A	Salt and sand layers	Lithium Americas DFS 11/07/2012. Tested at 20 l/s	27 days
10.3-25	Pre-production PB-04	Sand, silt, clay and salt.	Lithium Americas DFS 11/07/2012. Tested at 13 l/s	30 days
12.9-25	Pre-production PB-06A	5 layers of sand and gravel + clay	Lithium Americas DFS 11/07/2012. Tested at 22 l/s	13 days
4	Pre-production PB-01	Alternating layers sand, salt, clay	Lithium Americas DFS 11/07/2012 page 170	8 days
23	Pre-production PB-I	Coarse gravel, sand, clay	Lithium Americas DFS 11/07/2012. Tested at 23 l/s	4 days
		Olaroz, Argentina, O	rocobre	
14	Pre-production	Sand, clay, silt, halite	Orocobre announcement 25/01/2012	3 months
31	Production hole	Sand, some gravel, clay, silt, halite	Orocobre announcement 23/10/2014	
20	Pump testing	Med-coarse clean gravel	Olaroz technical report 13/05/2011	6 days

Table 1: Comparison of the Maricunga flow rates to other brine pump tests in South America

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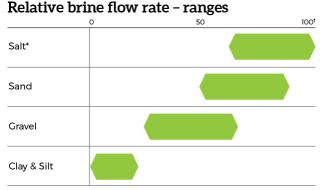


Salar Permeability

Brine pump tests are important as they provide information on the permeability, lithium grade and flow rates of the different sediment units that host brine within the salar. Further, high flow rates suggest a lower capex requirement for future well field development, which is attractive for the overall project economics. The Maricunga project has an upper aquifer containing salt, plus a deeper aquifer with sand and gravel units, all of which are favourable for the pumping of brine (see Figure 1).

Salar Porosity

Porosity is a related characteristic to permeability, and refers to the percentage of pore space between grains of sediment that can host lithium brine. There are several different measures of porosity, but the most important metric for brine deposits is the "drainable porosity" (see Figure 2). This represents brine that can be extracted from an aquifer during pumping and used for lithium production. The drainable porosity value is lower for fine grained sediments (clays and silts) and higher for coarser sediments (salt, sands and gravels).



* Flow rate indicative of salt within 50m of surface only [†] Refers to relative brine flow rate using index 0-100.

Figure 1: Relative brine flow rates by sediment type

Aquifer composition

Like a sponge, an aquifer holds brine in its pores and crevices. The volume of drainable brine which can be extracted is determined by porosity and permeability of the underlying sediment type.

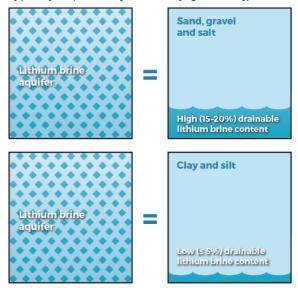


Figure 2: Drainable brine hosted in an aquifer

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Maricunga JV Background

The Maricunga JV is 50%-owned by LPI. The project is regarded by LPI management as one of the highest quality undeveloped pre-production lithium brine project globally, with a very high grade and strong flow rates. The Litio tenements have been subject to significant past exploration by our JV partners, Minera Salar Blanco and Li3 Energy, in order to generate the existing lithium and potassium resource*. The recently completed drilling & pump testing program is targeting an expansion of that resource on both the existing tenements and additional tenements acquired since, with a new JORC compliant resource estimate due in 1H17.



Figure 3: P4 pump and pipeline

Figure 4: P4 pump test discharge point

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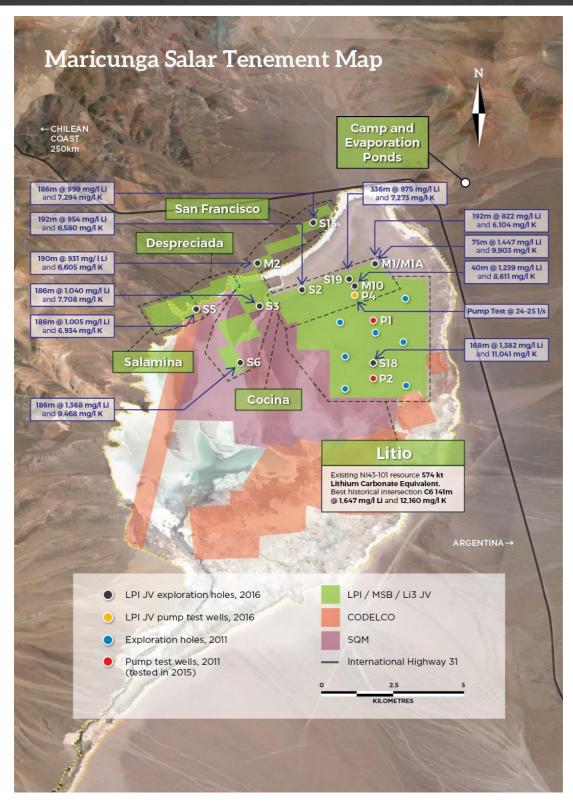


Figure 5: Maricunga lithium brine project tenements - with the location of P4 pump well in yellow

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* The reader is referred to the previous announcement by LPI on the 28 July, 2016, which provided details of the Maricunga project resource and information regarding what is considered by ASX as a production target. With regards to the resource LPI confirms that it is not in possession of any new information or data relating to the resource, (which is considered by ASX to be a foreign estimate), that materially impacts on the reliability of the estimate or the mining entity's ability to verify the foreign estimate as mineral resources in accordance with Appendix 5A (JORC Code). LPI confirms that all the material assumptions underpinning the production target provided in that announcement continue to apply. LPI confirms that the supporting information provided in the announcement by LPI on the 28 July, 2016 continues to apply and has not materially changed. LPI Cautions that the foreign estimate was not reported in accordance with the JORC code.

This work was completed prior to three years before the joint venture on the project was announced by LPI on 20/07/16. A competent person has not done sufficient work to classify the foreign estimate as mineral resources or ore reserves in accordance with the JORC Code. It is uncertain that following evaluation and/or further exploration work that the foreign estimate will be able to be reported as mineral resources or ore reserves in accordance with the JORC Code. As the Maricunga resource estimate was not undertaken under the JORC code LPI intends to verify this foreign estimate as part of the 4Q16 drilling and assaying program on the Maricunga project. Work consisted of drilling rotary and sonic drill holes and conducting detailed sampling and analysis with an accompanying QA/QC program. Future reporting will be under the JORC code.

Competent Person's Statement – MARICUNGA LITHIUM BRINE PROJECT

The information contained in this ASX release relating to Exploration Results has been compiled by Mr Murray Brooker. Mr Brooker is a Geologist and Hydrogeologist and is a Member of the Australian Institute of Geoscientists and the International Association of Hydrogeologists. Mr Brooker 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. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101.

Mr Brooker is an employee of Hydrominex Geoscience Pty Ltd and an independent consultant to Lithium Power International. It should be noted that Mr Brooker was awarded a number of shares and options at the recent lithium Power International AGM and Mr Brooker hereby declares this ownership. Mr Brooker consents to the inclusion in this announcement of this information in the form and context in which it appears. The information in this announcement is an accurate representation of the available data from drilling at the Maricunga project.

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APPENDIX 1 - JORC Code, 2012 Edition

Table 1 Report: Maricunga Salar

Criteria	Section 1 - Sampling Techniques and Data
Sampling techniques	 Drill cuttings were taken during rotary drilling, used to install the test production well P4. These are low quality drill samples, but provide sufficient information for lithological logging. Additional geological information is available from hole M10 drilled to 200 m, approximately 25 m from P4, and acting as an observation well in this test. Brine samples were collected at different times during the pump testing undertaken. Water levels were monitored extensively during and following the test period using data loggers and manual measuring equipment. Pumping is undertaken using a submersible pump, powered by a portable generator. The brine samples were collected in clean plastic bottles and filled to the top to minimize air space within the bottle. Each bottle was taped and marked with the sample number and details of the well and the time of the sample were noted. Samples were taken at different times throughout the pumping test.
Drilling technique	 Rotary drilling – This method was used to install the pump well, with the use of brine for lubrication during drilling, to minimize the development of wall cake in the hole that could reduce the well flow rate. Drilling allowed for recovery of drill cuttings and basic geological description. During rotary drilling, cuttings were collected directly from the outflow from the drill collar. Drill cuttings were collected over one metre intervals in cloth bags that were marked with the well number and depth interval. Sub-samples were collected from the sample bag by the site geologist to fill chip trays (also at a one metre interval).
Drill sample recovery	 Rotary drill cuttings were recovered from the well head.
Logging	 Rotary drilling was carried out for the collection of drill cuttings for geologic logging. Drill cuttings were logged by a geologist.
Sub-sampling techniques and sample preparation	 Brine samples collected during the pumping are homogenized as brine flows from the well and no sub-sampling is undertaken in the field. The brine sample was collected in one-litre sample bottles, rinsed and filled with brine. Each bottle was taped and marked with the well number and details of the pump test.
Quality of assay data and laboratory tests	 The University of Antofagasta in northern Chile is used as the primary laboratory to conduct the assaying of the brine samples collected as part of the drilling program. They also analyse blanks, duplicates and standards, as blind control samples in the analysis chain. The laboratory of the University of Antofagasta is not ISO certified, but it is specialized in the chemical analysis of brines and inorganic salts, with extensive experience in this field since the 1980s, when the main development studies of the Salar de Atacama were begun. The quality control and analytical procedures used at the University of Antofagasta laboratory are considered to be of high quality and comparable to those employed by ISO certified laboratories specializing in analysis of brines and inorganic salts.
Verification of sampling and assaying	 A full QA/QC program for monitoring accuracy, precision and to monitor potential contamination of samples and the analytical process was in operation. Accuracy, the closeness of measurements to the "true" or accepted value, was monitored by the insertion of standards, or reference samples, and by check analysis at an independent (or umpire) laboratory. Duplicate samples in the analysis chain were submitted to the University of Antofagasta as unique samples (blind duplicates) during the drilling process Stable blank samples (distilled water) were inserted to measure cross contamination during the drilling process The anion-cation balance is used as a measure of analytical accuracy.

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Location of data	• The well was located with a hand held GPS and the location subsequently confirmed by a			
points	surveyor.			
points	The location is in WGS84 Zone 19 south			
Data spacing and	Lithological data was collected throughout the drilling.			
distribution				
Orientation of data in	The salar deposits that host lithium-bearing brines consist of subhorizontal beds and lenses			
relation to geological	of halite, sand, silt and clay. The vertical well is essentially perpendicular to these units,			
structure	intersecting their true thickness			
Sample security	• Samples were transported to the University of Antofagasta (primary and duplicate samples)			
	for chemical analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly			
	identified.			
	• The samples were moved from the drill site to secure storage at the camp on a daily basis.			
	All brine sample bottles are marked with a unique label.			
Review (and Audit)	No audit of data has been conducted to date.			
Section 2 - Mineral Tenement and Land Tenure Status				
Mineral tenement	The Maricunga property is located approximately 170 km northeast of Copiapo in the III			
and land tenure	Region of northern Chile at an elevation of approximately 3,800 masl.			
status	• The property comprises 1,438 ha in six mineral claims known as Litio 1 through Litio 6. In			
	addition the Cocina 19-27 properties, San Francisco, Salamina and Despreciada properties			
	 have been added to the property package since 2012. The properties are located in the northern section of the Salar de Maricunga. 			
	 The properties are located in the northern section of the salar de Mariculga. The tenements are believed to be in good standing, with payments made to relevant 			
	government departments			
Exploration by other	 SLM Litio drilled 58 vertical holes in the Litio properties on a 500 m x 500 m grid in February, 			
parties	2007. Each hole was 20 m deep. The drilling covered all of the Litio 1 – 6 property holdings.			
'	• Those holes were 3.5" diameter and cased with either 40 mm PVC or 70 mm HDPE pipe			
	inserted by hand to resistance. Samples were recovered at 2 m to 10 m depth and 10 m to			
	20 m depth by blowing the drill hole with compressed air and allowing recharge of the hole.			
	• Subsequently, samples were taken from each drill hole from the top 2 m of brine. In total,			
	232 samples were collected and sent to Cesmec in Antofagasta for analysis.			
	• Prior to this the salar was evaluated by Chilean state organization Corfu, using hand dug pit			
	samples.			
Geology	• The sediments within the salar consist of halite, sands, gravels, silts and clays deposits that			
	have accumulated in the salar from terrestrial sedimentation and evaporation of brines within the salar.			
	 Brines within the salar are formed by solar concentration, with brines hosted within the 			
	different sedimentary units			
	• Geology was recorded during drilling of the P4 wells and all the other drill holes in the			
	program			
Drill hole data	• The well was installed with hole M10 acting as an observation well for changes in water			
	level, in addition to the information collected from the logging of drill cutting. In addition to			
	M10 there are three other shallow observation wells for the pump testing.			
Data aggregation	Brine samples taken from the pump well represent composite samples			
Relationship between	• The lithium-bearing brine deposits extend across the properties and over a thickness of >			
mineralisation widths	200 m, limited by the depth of the drilling			
and intercept lengths	 The drill holes are vertical and perpendicular to the horizontal sediment layers in the salar 			
Diagrams	Diagrams were provided in Technical report on the Maricunga Lithium Project Region III, Chile Nu 42 404 answer terms and final in France. Mar 22, 2012. Genetical report			
Deleneed association	Chile NI 43-101 report prepared for Li3 Energy May 23, 2012. See attached location map			
Balanced reporting	 This announcement presents representative key results from pump testing during the pump testing operation 			
Other substantive	 testing operation. Refer to the information provided in Technical report on the Maricunga Lithium Project 			
exploration data	Refer to the information provided in Technical report on the Maricunga Lithium Project Region III, Chile. NI 43-101 report prepared for Li3 Energy May 23, 2012			
Further work	 The company will consider additional drilling on the properties which have been added to 			
	• The company will consider additional draining on the properties which have been added to			

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the project since the 2012 public report

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