

ASX ANNOUNCEMENT

## Liontown Maintains Exploration Momentum Across Three Australian Lithium Projects

### Highlights

- Phase 2 drilling program at Bynoe Lithium Project confirms widespread lithium mineralization across several prospects.
- More than 50 pegmatite targets yet to be assessed at Bynoe with assays pending for ~1,000 soil samples and a detailed aeromagnetic survey to commence next month to help prioritise targets for next phase of drilling.
- Meeting held with Native Title claimants at Kathleen Valley – clearance survey for maiden drilling program scheduled for December 2016.
- ~3,500m RC drilling program scheduled to commence at Kathleen Valley in first quarter of 2017.
- In-fill soil sampling currently in progress at Lake Percy where previous exploration has defined strong lithium anomalism coincident with large pegmatite bodies.

Liontown Resources Limited (ASX: LTR) is pleased to provide an update on exploration activities across its three 100%-owned lithium projects in Australia.

### **Bynoe Lithium Project, NT**

The Company has now received all assays from its second drilling program at the Bynoe Lithium Project, located immediately south of Darwin in the Northern Territory (**Figure 1**), with results confirming strong (>1% Li<sub>2</sub>O) lithium mineralisation at a number of prospects.

The drilling program at Bynoe, which comprised 34 Reverse Circulation (RC) drill holes for a total 3,750m, tested 15 prospects (**Figure 1**).

Better results from the drilling program came from the Sandras prospect and included:

- **LBRC022\***                      **27m @ 1.1% Li<sub>2</sub>O from 94m, including:**
  - **3m @ 1.6% Li<sub>2</sub>O from 108m; and**
  - **2m @ 1.8% Li<sub>2</sub>O from 119m**

- **LBRC027\***      **28m @ 1.0% Li<sub>2</sub>O from 77m, including:**
  - **2m @ 1.6% Li<sub>2</sub>O from 79m**
  - **3m @ 1.5% Li<sub>2</sub>O from 87m and**
  - **3m @ 1.5% Li<sub>2</sub>O from 98m**

These results were reported in an announcement dated 2 November 2016 and are in addition to previously reported intersections from the maiden drilling program which included intercepts of up to 42m at 1.0% Li<sub>2</sub>O from 93m (see ASX Announcement dated 26 July 2016).

Significant lithium intersections were also recorded at Talmina West (4m @ 1.3% Li<sub>2</sub>O from 99m), Rocky Ridge (2m @ 1.3% Li<sub>2</sub>O from 85m) and BP33 (5m @ 1.5% Li<sub>2</sub>O from 120m).

A full summary of drill statistics is provided in Appendix 1.

More than 50 pegmatites remain to be tested at Bynoe (**Figure 1**). In order to prioritise future drilling, a soil sampling program comprising approximately 1,000 samples has been completed (assays pending) and a jointly funded, detailed aeromagnetic survey is scheduled to commence in December 2016.

Results from these surveys will be used to define mineralised trends with the size potential to host economic lithium deposits.

Further drilling is scheduled for second quarter of 2017 after the northern Australian wet season.

### **Kathleen Valley Lithium Project, WA**

A meeting was held on the 21<sup>st</sup> November 2016 with the Native Title claimants for the Kathleen Valley Project, located approximately 680km north-east of Perth, to discuss Liontown's proposed drilling program for the Project. Discussions were positive and a heritage survey to clear planned drill sites is scheduled for December 2016.

An initial 3,500m, 25-35 hole Reverse Circulation drilling program is due to start in the first quarter of 2017.

Previous work (see ASX release dated 6 September 2016) at Kathleen Valley has defined two prospects – **Mt Mann** and **Kathleen's Corner** – where multiple spodumene-bearing pegmatites with numerous high grade lithium (>2% Li<sub>2</sub>O) values have been mapped (**Figure 2**).

At Mt Mann, traversing by Liontown geologists has defined a strike length of more than 1.4km with the trend remaining open to the north-west, where it is obscured by transported cover.

At Kathleen's Corner, numerous shallowly dipping, strongly mineralised pegmatites have been defined over a strike length of 600m with the strike extensions again obscured by transported cover.

There has been no previous drill testing at either prospect.

### Lake Percy Lithium Project, WA

In-fill soil sampling is in progress at Lake Percy, where previously reported work (see ASX release dated 27 October 2016) has defined strong lithium-in-soil anomalism coincident with large pegmatites. Recent geological mapping indicates that these pegmatites locally exceed 100m in true thickness (**Figure 3**).

The Lake Percy Project is located in the heart of the emerging Forresteria Lithium Province which includes the Mt Cattlin spodumene mine (currently being commissioned by Galaxy Resources) and the Earl Grey discovery, where Kidman Resources has recently completed a resource drill out.



DAVID RICHARDS  
Managing Director

23 November 2016

*The Information in this report that relates to Exploration Results for the Bynoe Project is based on and fairly represents information and supporting documentation prepared by Mr David Richards, who is a Competent Person and a member of the Australasian Institute of Geoscientists (AIG). Mr Richards is a full-time employee of the company.*

*The Information in this report that relates to the Exploration Results for the Kathleen Valley Project is extracted from the ASX announcement entitled "Lithium-tantalum potential at Kathleen Valley significantly expanded" released on 6 September 2016 respectively both of which are available on [www.ltresources.com.au](http://www.ltresources.com.au).*

*The Information in this report that relates to the Exploration Results for the Lake Percy Project is extracted from the ASX announcement entitled "Liontown confirms lithium potential at Lake Percy" released on 27 October 2016 both of which are available on [www.ltresources.com.au](http://www.ltresources.com.au).*

*Mr Richards has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activities 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'. Mr Richards consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*This announcement contains forward-looking statements which involve a number of risks and uncertainties. These forward looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.*

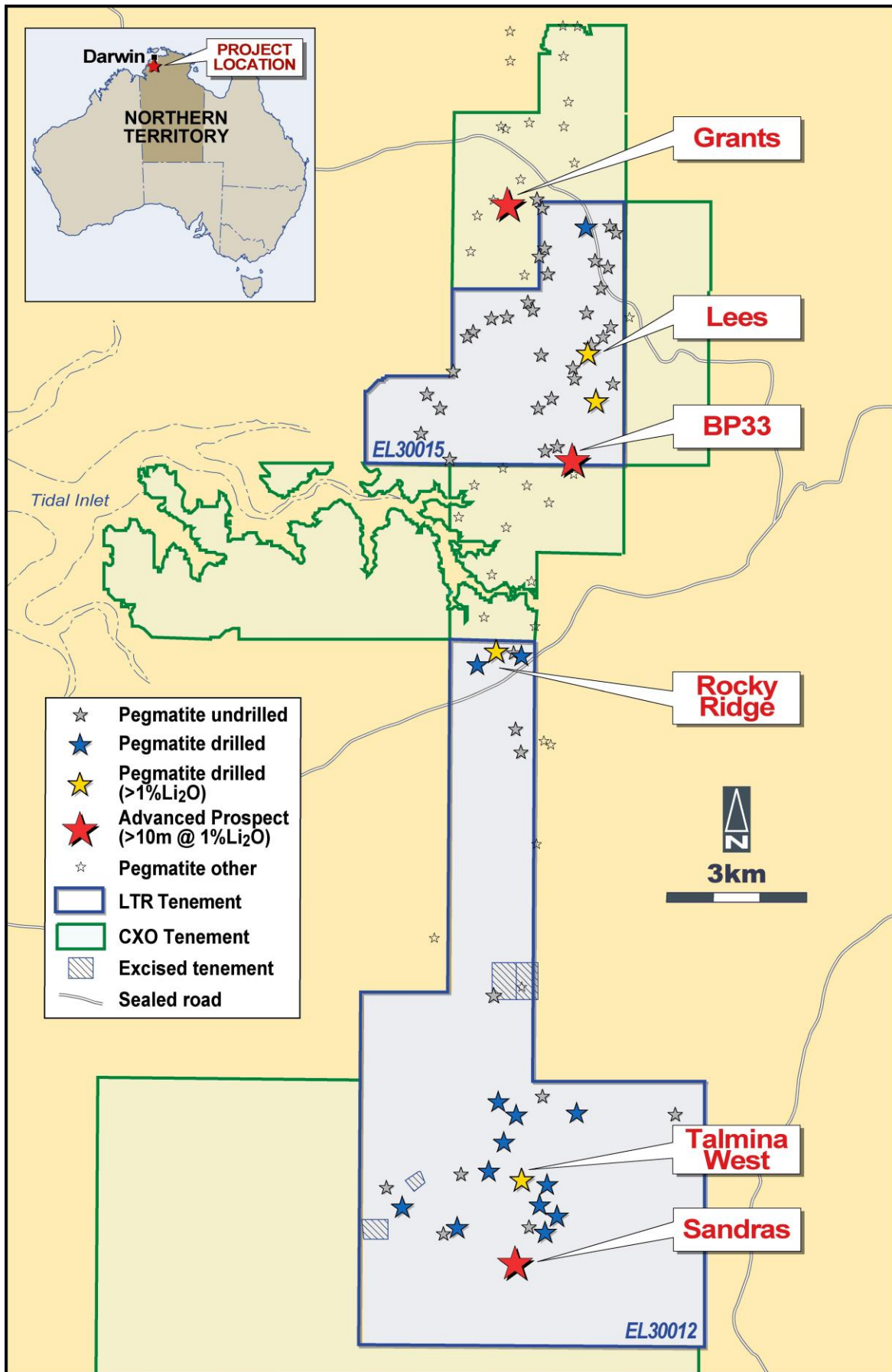


Figure 1: Bynoe Project – Prospect locations

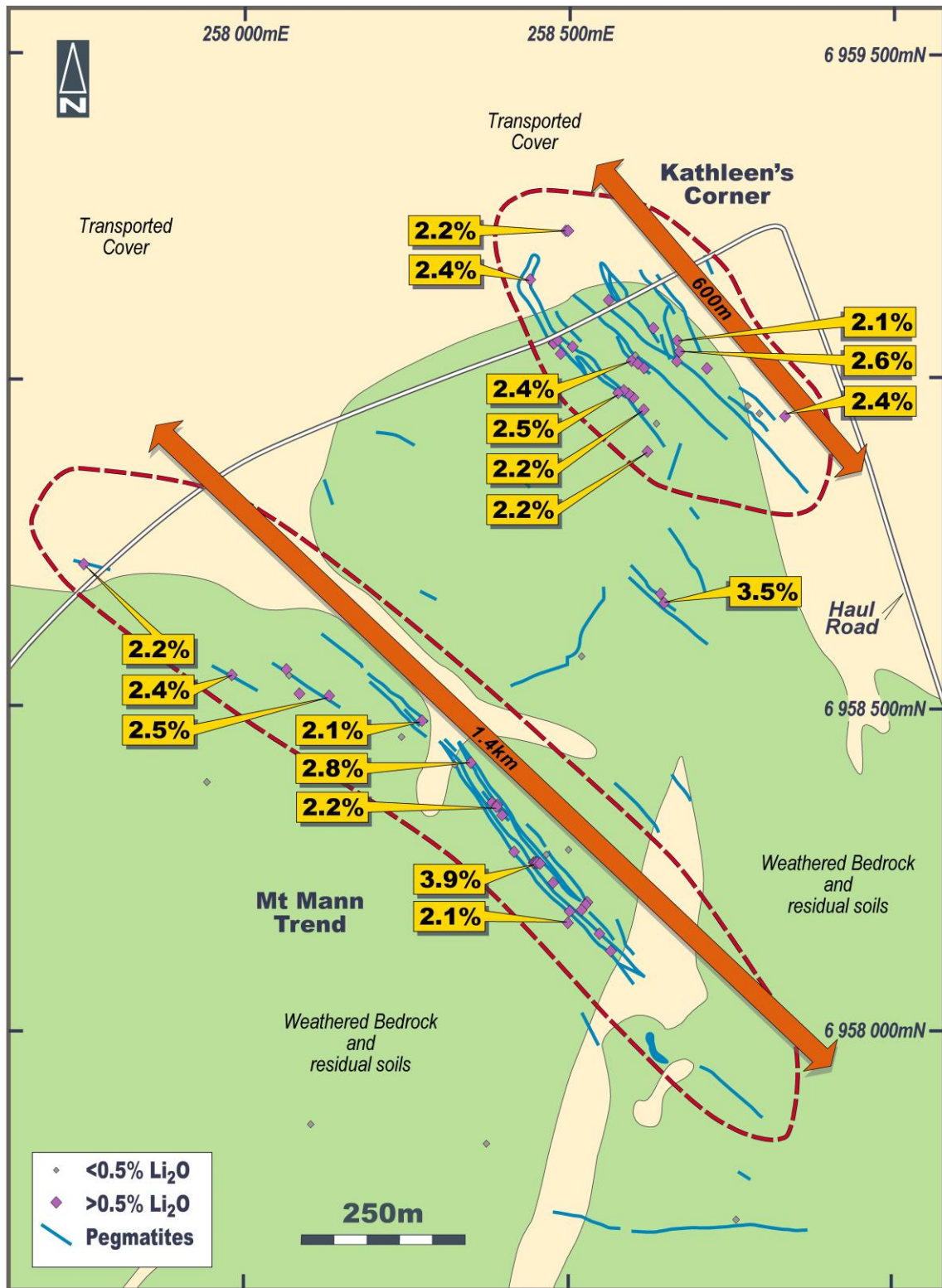


Figure 2: Kathleen Vallet Project – Northern area showing rock chip sampling and better lithium results.

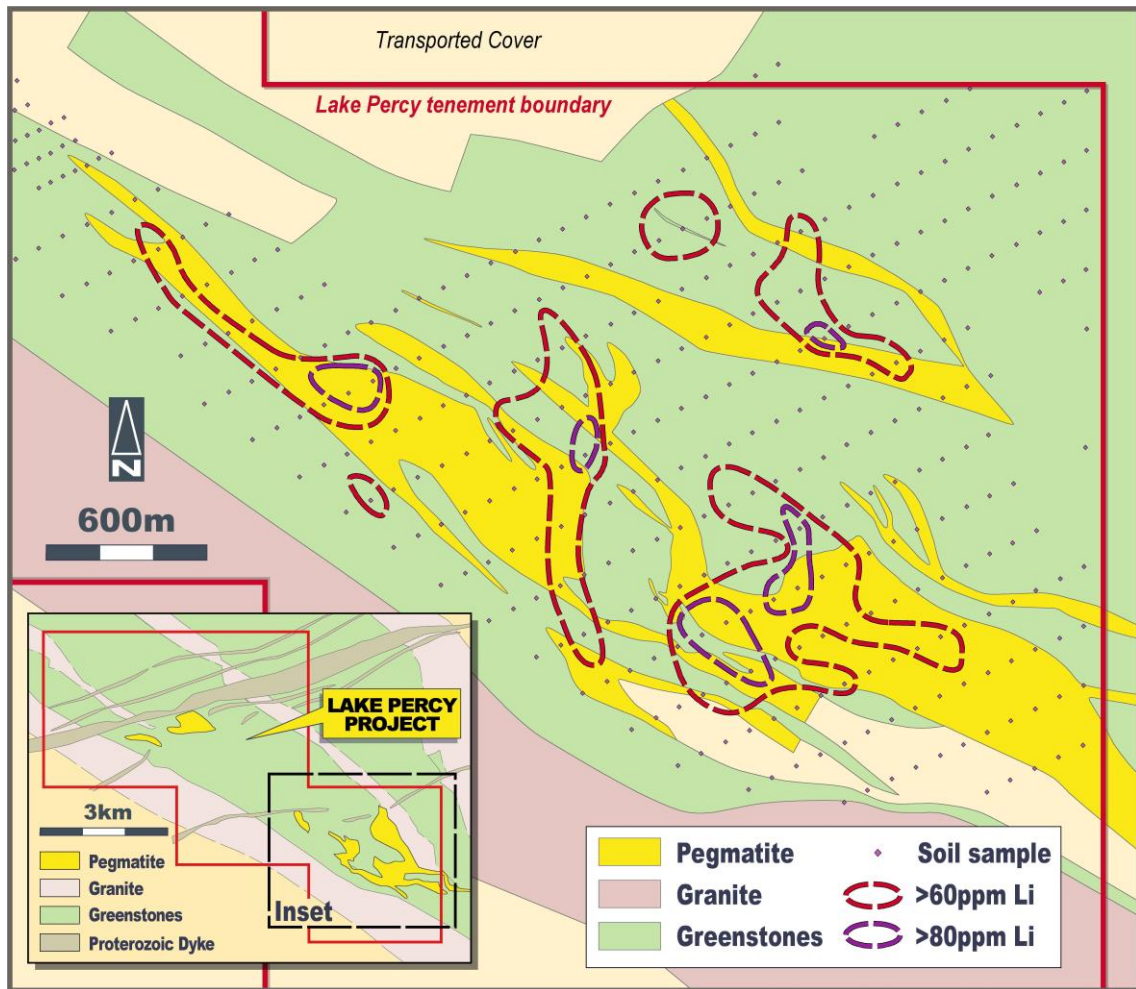


Figure 3: Lake Percy Project – Soil geochemistry (lithium) over interpreted bedrock geology.

**APPENDIX 1 – BYNOE PROJECT – DRILL HOLE STATISTICS**

Hole ID	Prospect	East	North	RL	Dip	Azimuth	Depth (m)	Significant (>0.5%) Lithium Results			
								From (m)	To (m)	Interval (m)	Grade (%)
LBRC001	BP33	694533	8593573	23	-80	125	78	No significant assays			
LBRC002		694499	8593566	23	-60	125	78	52	60	8	1.2
								incl. 3m @ 1.7% from 57m			
								63	68	5	1.5
								incl. 2m @ 2.2% from 64m			
LBRC003	Booths South	695148	8995139	57	-60	245	96	No significant assays			
LBRC004	Lees	694668	8595976	44	-70	180	90	66	70	4	1.2
LBRC005		694637	8595994	37	-90	180	90	incl. 1m @ 1.7% from 68m			
LBRC006	Booths South	695073	8595223	53	-90	230	118	66	68	2	0.8
LBRC007	Hang Gong	694710	8598552	29	-60	90	132	90	92	2	1.1
LBRC008		694697	8598502	31	-60	90	114	No significant assays			
LBRC009		694780	8598450	28	-60	270	90				
LBRC010		694744	8598643	27	-78	90	72				
LBRC011	Rocky Ridge	692793	8589503	35	-65	290	108	71	79	8	1
								incl. 2m @ 1.8% from 76m			
LBRC012	Sandras	693222	8576799	55	-65	290	102	No significant assays			
LBRC013		693252	8576866	52	-65	297	96	65	73	8	0.8
								93	135	42	1
								incl. 4m @ 2.6% from 94m and incl. 3m @ 1.5% from 132m			
LBRC014		693253	8576866	52	-80	297	162	70	94	24	1.1
LBRC015		693307	8576976	53	-65	300	114	incl. 1m @ 2.4% from 70m and 4m @ 1.5% from 83m			
LBRC016	Martins	693783	8577524	49	-65	308	96	No significant assays			
LBRC017	Turners	694058	8577814	58	-65	128	96				
LBRC018	Bilatos	690764	8578236	44	-65	135	108				
LBRC019		690829	8578162	45	-65	315	102				
LBRC020	Talamia West	693354	8578620	69	-70	115	132	96	98	2	1.9
								incl. 1m @ 3.2% from 97m			
								103	105	2	1.2
								111	113	2	2
								incl. 1m @ 3.2% from 112m			
LBRC021	Martins	693847	8577462	51	-65	308	96	No significant assays			
LBRC022	Sandras	693270	8576903	52	-80	295	163	94	121	27	1.1
								incl. 3m @ 1.6% from 108m and 2m @ 1.8% from 119m			
								130	140	10	0.7
								incl. 1m @ 1.8% from 131m			
LBRC023		693269	8776903	52	-65	295	120	52	81	29	0.9
								incl. 4m @ 1.5% from 69m and 2m @ 2.3% from 78m			
								96	99	3	1.1
LBRC024		693235	8676830	52	-65	295	103	No significant assays			
LBRC025	Sandras	693256	8576830	52	-80	295	169	109	110	1	1.4
								136	152	16	1.1
								incl. 6m @ 1.7% from 139m			
LBRC026		693235	8576874	52	-60	295	85	61	66	5	0.6
								65	71	6	1.1
LBRC027		693286	8576939	52	-65	295	120	incl. 2m @ 2.3% from 66m			
	77							105	28	1	
	incl. 2m @ 1.6% from 79m and 3m @ 1.5% from 87m and 3m @ 1.5% from 98m										
LBRC028		693287	8576939	52	-80	295	168	116	136	20	0.9
								incl. 2m @ 1.8% from 122m			
LBRC029		693202	8576757	52	-73	295	127	No significant assays			
LBRC030		693338	8577047	52	-65	295	127				
LBRC031	Hungry	692026	8577545	48	-60	295	109				
LBRC032		691954	8557589	48	-60	135	103				
LBRC033	Talwest	693371	8578656	64	-65	115	121	88	89	1	0.9
								93	94	1	0.8
								99	103	4	1.3
								incl. 1m @ 2% from 100m			
LBRC034		693337	8578584	64	-70	115	163	129	130	1	0.9
	139							142	3	0.6	
	145							150	5	0.9	
								incl. 1m @ 2.5% from 147m			
LBRC035	Talwest	693322	8578545	73	-65	115	121	No significant assays			
LBRC036	Talwest	693364	8578417	64	-70	115	85				

## APPENDIX 1 (CONT.) – BYNOE PROJECT – DRILL HOLE STATISTICS

Hole ID	Prospect	East	North	RL	Dip	Azimuth	Depth (m)	Significant (>0.5%) Lithium Results							
								From (m)	To (m)	Interval (m)	Grade (%)				
LBRC037	Tal 4	693919	8578427	74	-55	290	102	No significant assays							
LBRC038	Tal 3	693793	8578158	74	-60	295	121								
LBRC039	Tal 3	693732	8578065	74	-75	295	73								
LBRC040	Fred East	692625	8578632	60	-65	320	109								
LBRC041	Apache	692843	8580223	68	-80	270	85								
LBRC042	Apache	692843	8580223	68	-55	270	55								
LBRC043	Apache	692763	8580224	68	-60	90	73								
LBRC044	Tal 10 N	693297	8579770	70	-55	315	55								
LBRC045	Tal 10 S	692996	8579328	70	-80	305	115								
LBRC046	Tal 10 S	692996	8579328	70	-60	305	67								
LBRC047	Sabine	694194	8579937	59	-73	290	79								
LBRC048	Rocky Ridge	692807	8589541	35	-65	290	121								
LBRC049	Rocky Ridge	692779	8589465	35	-65	290	121					85	87	2	1.3
												incl. 1m @ 1.9% from 85m			
								95	102	7	0.7				
LBRC050	Rocky Ridge	693527	8589644	42	-70	300	103	No significant assays							
LBRC051		692411	8589233	34	-70	260	115								
LBRC052	BP33	694472	8593589	35	-67	135	175	120	125	5	1.5				
				incl. 1m @ 2.1% from 121m											
LBRC053		694570	8593630	27	-60	315	91	No significant assays							
LBRC054		694585	8593611	27	-60	315	73								
LBRC055	Lees	694769	8596010	42	-60	225	133								

*True widths vary due to varying orientations of pegmatites. Following are estimated true widths for each prospect based on available data:*

- **BP33 – 60% of down hole widths**
- **Lees – 100% of down hole width**
- **Booths South – 75% of down hole widths**
- **Rocky Ridge – 75% of down hole widths**
- **Sandras, Talwest – 50% of down hole widths**