



Corporate Presentation

September 2018

ion | minerals



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Ion Minerals

Ion Minerals is a private company formed by experienced natural resource executives for the purpose of advancing two high grade cobalt exploration projects in Northern Queensland and the Pilbara in Western Australia, and a vanadium project in Queensland.

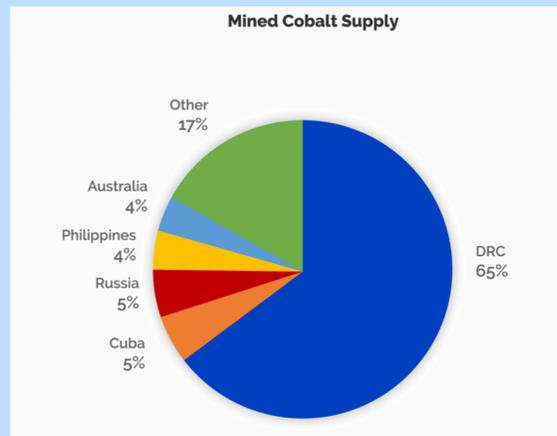
Ion Minerals has binding agreements in place and has commenced exploration.

About Cobalt

- The global **Cobalt** market is enjoying a period of considerable growth and Baseline forecasts suggest demand from the battery sector will increase at a rate of more than 15% per year to 2026.
- Today, total worldwide cobalt production is around 100,000 metric tonnes per annum, but as demand for electric vehicles and energy storage devices surges, cobalt demand is also expected to increase significantly.
- In late April 2018, the LME spot price for cobalt metal is US\$41/lb. Using today's price, the value of global cobalt production this year is expected to exceed US\$9 billion.

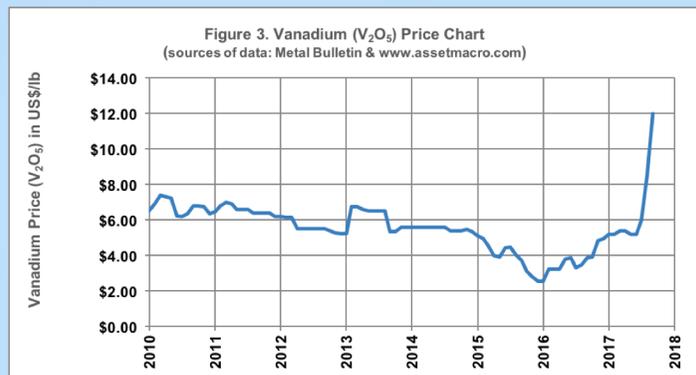
About Cobalt

- Cobalt grades above 0.1 per cent are considered economic at current cobalt prices. Grades above 0.2 per cent are average and grades of 0.3 per cent and above are considered very good
- Most existing and potential producers are in the DRC, where continued political instability and concerns about energy and infrastructure in the country remain a core driver of market sentiment.



About Vanadium

- Vanadium is a metal that's ideal for batteries that run longer and are more efficient than lithium-ion batteries.
- Vanadium is the best-performing battery material of the past year.
- Currently selling for \$14 per pound, vanadium has soared more than 130% over 12 months and more than 500% since January 2016.



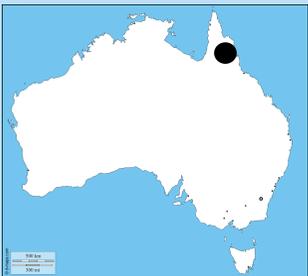
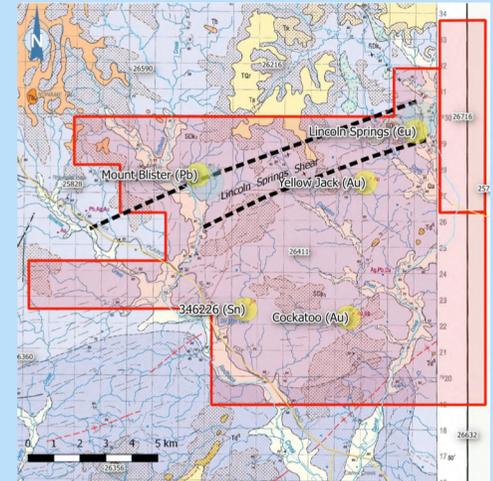
Australia

Australia has a world class mining industry and minimal sovereign risk and so offers a very attractive environment in which to invest in cobalt exploration and development assets. Many existing and potential producers are located in the Democratic Republic of the Congo, where continued political instability and concerns about energy, infrastructure, health and taxes make long term investment a risky proposition.

Cobalt Projects

Lincoln Springs - Queensland

- One granted exploration permit and one application covering an area of approximately 158 square kilometres.
- Assay results up to **3.16% Co, 40% Cu**.
- Extensive vein system within a shear zone that can be traced for 12km.
- Gold anomalies up to 23.75 g/t.
- Good access to property area.
- 49 sub-blocks totalling approximately 157km².

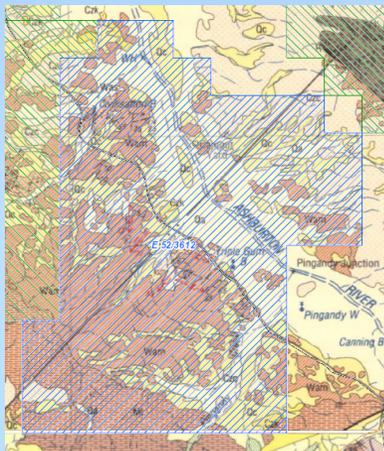


Cobalt Projects

Lincoln Springs – Queensland

Rock chip Sampling and Results

- Ion Rock chip samples returned highly elevated cobalt, copper (10.4%) and zinc with the highest cobalt assay of 1.95% coincident with the highest zinc result of 4.1% and with 4.38% copper.
- Copper cobalt confirmed as being hosted by the Lincoln Springs shear. The shear can be traced over 12Km
- Neighbouring historic high grade copper workings (Clan Stewart) not located but expected to be cobalt bearing.



Sample	Co%	Cu%	Zn%	Description
8810	0.21	2.25	0.56	Highly gossanous iron oxides
8811	1.95	4.38	4.10	Silicified, brecciated sediment with erythrite and malachite
8812	0.20	10.4	0.80	Silicified, brecciated sediment with abundant malachite and azurite
8813	0.241	8.47	0.68	Silicified, brecciated sediment with manganese oxide coatings and abundant malachite
8814	0.243	1.72	0.49	Silicified, brecciated sediment with manganese oxide coatings – no visible copper or cobalt
8818	0.41	0.92	2.05	Silicified sediment with erythrite and malachite

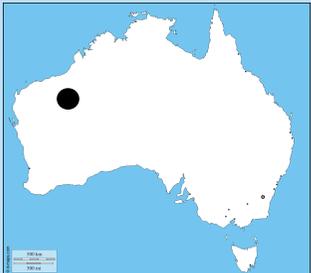
Cobalt Projects

Ashburton – Western Australia

The Ashburton Cobalt Project is located 80km south of Paraburdoo. The project area consists of 70 blocks for approximately 218km².

Previous exploration has defined extensive multi-element anomalism and mineralisation within the Ashburton Sediments with enrichment seen in Co, Cu, Zn, Pb, Ni.

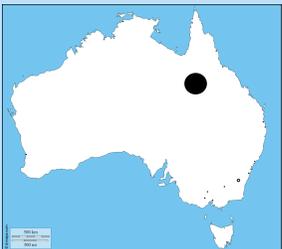
- Cobalt anomalism occurs over a 15km by 7km area.
- maximum rock chip value of **1.89% Co + 0.35% Zn + 0.28% Ni**
- two main soil anomalies greater than 30ppm Co (enclosing higher grade zones >50ppm)
 - 3.5km by 1.5km
 - 2.5km by 1.5km.



Vanadium Project

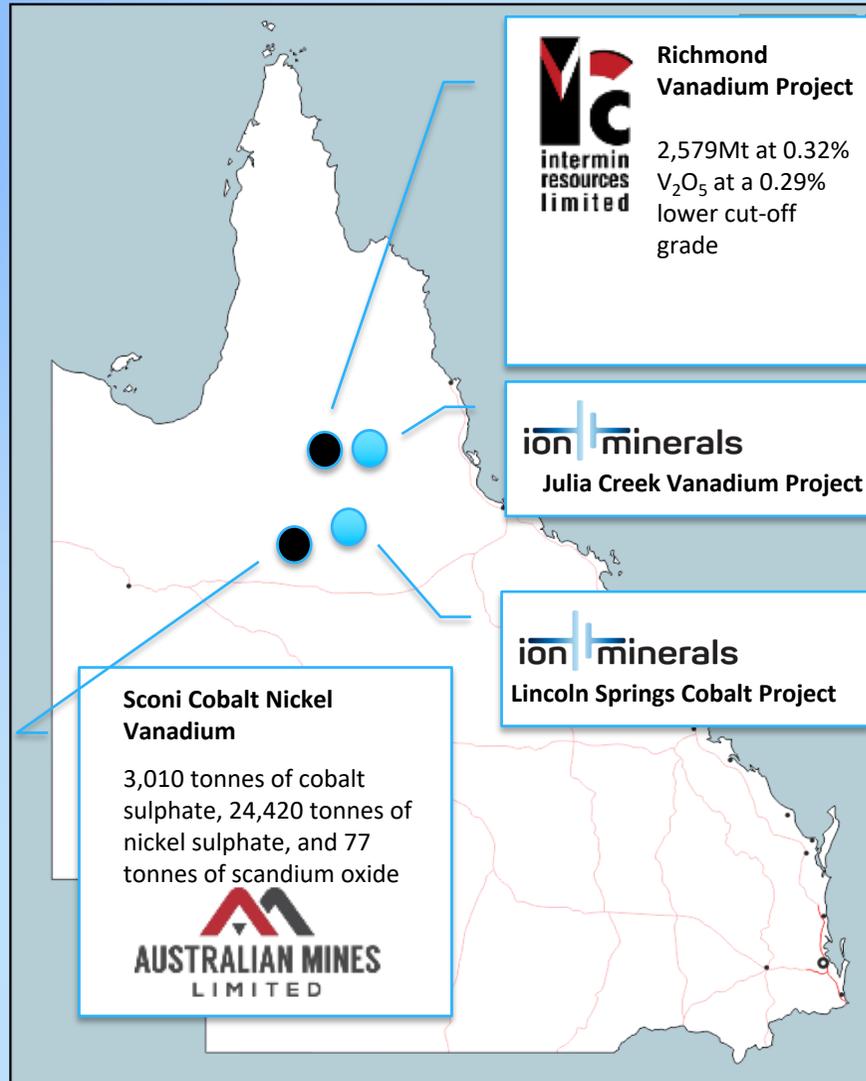
Julia Creek - Queensland

- Ion Minerals has two application areas for 84 sub blocks at Julia Creek covering approximately 270 square kilometres.
- The St Elmo deposit, is centred about 40 kilometres east-southeast of the eastern boundary and contains an Indicated Resource of 640Mt grading 0.41% V₂O₅ and 311ppm MoO₃.
- Ion tenements cover the same shale units and are expected to host similar grade mineralisation
- A reconnaissance field trip to confirm extent of outcropping prospective Toolebuc Formation is scheduled for June 2018.



Strategic locations (Queensland)

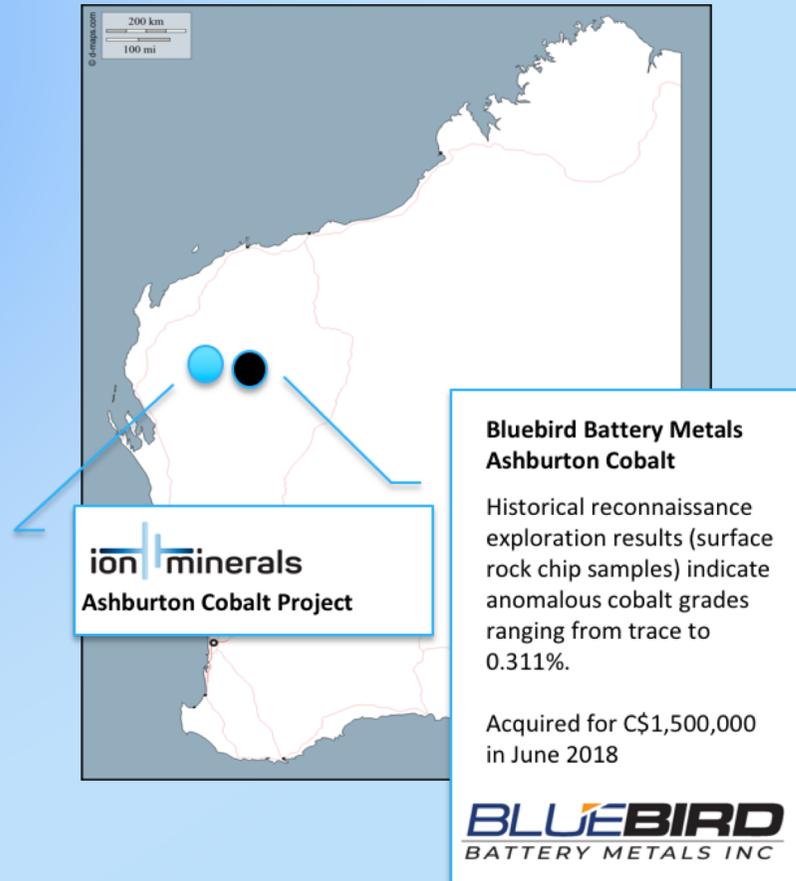
Ion Minerals' Lincoln Springs project is located approx 60 km's east-north-east of Australia Minerals' Sconi project.



Ion Minerals' Julia Creek vanadium project is located alongside Intermin Resources' Richmond joint venture with AXF Vanadium.



Strategic locations (Western Australia)



Ion Minerals' Ashburton cobalt project is located 80 km south of Paraburadoo. Bluebird Battery Minerals' cobalt project is located 100km south-west of Paraburadoo.

Management - Commercial

Cameron McLean (Managing Director)

- Mineral Intelligence (Managing Director)
- Atrum Coal (CFO)
- Kagara Ltd (GM – Commercial)
- Snowden Mining Industry Consultants (CFO)

Alistair Williams (Director – Finance)

- Sequa Petroleum (Co-founder/CFO)
- British Gas Group - Deputy CFO
- SmithKline Beecham (CFO)
- Rio Tinto (Treasury Analyst)
- KPMG (Chartered Accountant)

Exploration Program

Ion will locate the high grade Copper/Cobalt Clan Stewart workings as a priority.

Continue soil sampling along strike of Lincoln Springs to outline the extent of Cu/Co anomalism and locate drill targets.

Commence drilling within 3 months.

Investigate the 12 km strike of the shear zone for further Cu/Co occurrences.



FOR MORE INFORMATION:

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