THULE BLACK SANDS NORTH-WEST GREENLAND

November 2017





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The information contained in this presentation has been reviewed and approved by **Howard Baker**, Technical Director of Alba Mineral Resources Plc. Mr Baker is a Chartered Professional Fellow of the Australasian Institute of Mining and Metallurgy (Membership Number 224239) and a Competent Person as defined by the rules of International Reporting Codes that are aligned with CRIRSCO. Howard Baker 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 targets, Exploration Results, Mineral Resources and Ore Reserves', also known as the JORC Code. The JORC code is a national reporting organisation that is aligned with CRIRSCO.



Alba Minerals Overview

Exchange: Symbol: Date of Listing: Current Price (mid-point): Market Capitalisation:

Management:

Mining Projects:



AIM (LSE) ALBA 4 April 2005 0.44p (20/11/2017) GBP9.4m (20/11/2017)

George Frangeskides (Executive Chairman) Michael Nott (Non-Executive Director) Manuel Lamboley (Non-Executive Director) Howard Baker (Technical Director) Sandy Archibald (Technical Adviser)

Thule (Greenland) - Ilmenite Amitsoq (Greenland) - Graphite, Ni-PGMs, Gold Melville Bay (Greenland) – Iron Ore Inglefield land (Greenland) – Cu, Co, Au Limerick (Ireland) – Base Metals Mreiti (Mauritania) - Uranium

Highlights

- Thule Project located in north-west Greenland.
- Licence granted in August 2017.
- Extensive auger sampling and aerial photography completed in September 2017.
- Ilmenite-rich active beaches and raised beaches identified over 22 km of coastline and sampled over 8.5 km.
- High Grade Total Heavy Mineral Content of 46.7% average
- In situ ilmenite grade of 10% average
- Adjacent to Bluejay Mining Plc, Dundas Titanium Project.
- Bulk sample analysis and Mineral Resource Estimation targeted to be completed by year end (2017).





Licence / Local Geology



Exploration Licence 2017/29 (384 km²) and 2017/39 (158 km²) Sills and Dykes within the Dundas formation act as the ilmenite source rocks



Location / Infrastructure

Alba's north-west Greenland project portfolio - well connected by local infrastructure





Introduction to Thule

- Exploration Licence 2017/29 (384 km²) and 2017/39 (158 km²)
- 100% ownership
- Extensive active and raised beach terraces mapped historically by GEUS
- Focus historically on hard rock ilmenite potential (estimate of 10 billion tonnes by GEUS)
- Adjacent to Bluejay Mining Plc, Dundas Titanium Project with an existing JORC Resource of 23.6Mt at 8.8% ilmenite (in situ)
- Comparable grade and mineralogy at Thule with the ilmenite originating from the same source rocks (sills and dykes of the Dundas formation)
- Alba was granted the licence in August 2017
- Field programme completed in September 2017
- 79 samples collected with 70 samples from 2017/29
- Samples analysed at SGS Canada (Heavy Liquid Separation and Composite Mineralogy)
- THM = 46.7% average with 10% average in situ ilmenite determined from the mineralogical testwork
- Ilmenite bearing sands identified over 22km of coastline



Ilmenite Fact Sheet

- Ilmenite (FeTiO₃) is an iron titanium dioxide
- Specific Gravity of 4.7 to 4.79
- Weakly magnetic
- Titanium dioxide (TiO₂) is the principal feedstock for pigment production used for the manufacture of paints, coatings and plastics, as well as in a range of other applications including inks, fibres, rubber, food, cosmetics and pharmaceuticals.
- Global TiO₂ market expected to reach \$18.2 billion by 2021 (Lucintel, January 2017)
- Primary ore of titanium, used as a metal in highperformance alloys used in commercial aerospace, military and industrial applications.



Field Programme – September 2017



Field Programme – September 2017







Raised Beach

Active Beach

Field Programme – September 2017







Heavy Liquid Separation



SGS Assay Results



Product	Weighted Average %		
+2mm	20.4		
-2mm Sink	46.7		
-2 mm Float	30.7		
-53 microns	2.2		
%THM	46.7		

Composite	THM	Ilmenite	In-situ
ID	%	% of THM	Ilmenite %
1	34.2	16.6	5.7
2	54.0	24.3	13.1
3	43.7	20.2	8.8
4	42.8	18.7	8.0
5	48.7	15.7	7.6
6	51.3	29.0	14.9
7	48.9	19.5	9.5
Weighted Average	46.7	20.9	10.0

North-West Target



North-West Target



North-West Target



Multiple Calm Sheltered Bays



Continuing Work Programme - 2017

- Ilmenite Quality testwork in progress.
- Aerial photography being compiled by GEUS to generate digital terrain model and georeferenced orthophoto.
- Bulk sample testwork being planned two bulk samples collected during the field campaign.
- Mineral Resource Estimation.
- 2018 field programme planning.





Summary

Thule Black Sands

- Mineral Sands province identified
- Ilmenite bearing sands identified over a 22km stretch of coastline
- Mineralisation at surface (unknown depth) making exploration easy
- Very high grade THM (46.7%) and in situ ilmenite content (10%)
- Consistent mineralogy across Steensby Land
- Offshore mineralisation potential
- Multiple calm sheltered bays identified
- Scale of Project provides indication of potential commercial viability

Alba Mineral Resources

- Greenland focus and highly respected in-country
- Building an experienced Mineral Sands team with a known network of Industry Recognised Professionals
- Building a strong and diversified portfolio of assets



Alba Portfolio

Oil & Gas

- Horse Hill (Oil & Gas, UK): 15 per cent interest in Horse Hill Developments Limited, the company which has a 65 per cent participating interest and operatorship of the Horse Hill oil and gas project (licences PEDL 137 and PEDL 246) in the UK Weald Basin.
- <u>Brockham (Oil & Gas, UK)</u>: 5 per cent interest in Production Licence 235, which comprises the previously producing onshore Brockham Oil Field.

Mining

- <u>Amitsoq (Graphite, Greenland)</u>: 90 per cent interest in the Amitsoq Graphite Project in Southern Greenland with an option over the remaining 10 per cent.
- <u>Black Sands (Ilmenite, Greenland)</u>: 100 per cent of mineral exploration licences 2017/29 and 2017/39 in the Thule region, north-west Greenland.
- Melville Bay (Iron Ore, Greenland): 51 per cent interest in mineral exploration licence 2017/41 in Melville Bay, north-west Greenland. The licence area benefits from an existing inferred JORC resource of 67 Mt @ 31.4% Fe.
- Inglefield Land (Copper, Cobalt, Gold): 100 per cent of mineral exploration licence 2017/40 in north-west Greenland.
- **Limerick (Base Metals, Ireland):** 100 per cent of the Limerick base metal project in the Republic of Ireland.
- <u>El Mreiti (Uranium, Mauritania)</u>: Alba has applied for the reissue of a uranium permit in northern Mauritania, centred on known uranium-bearing showings.



Contact Us

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