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## Three Business Areas

#### Primary Raw Materials needed to deliver the Green Transition

An asset portfolio diversified by commodity, geography and the development stage of its various projects, focused on the metals required to facilitate the transition to a Green Economy







Jokkmokk Iron's Kallak Iron Ore Project is ideally located as a future, secure and sustainable supplier of high-grade iron concentrate to Nordic fossil-free steelmakers and export markets. Exploitation Concession was awarded in March 2022.



Sustainable and secure supply of anode materials to Europe's rapidly growing lithium-ion battery sector



Grafintec's objective is be a European leader in the sustainable supply of anode materials for lithium-ion batteries. The Company has plans to develop a production facility in Finland and has recently signed a MoU with Hensen which supports this ambition.







Vardar is using 'state of the art' exploration technology in Kosovo, and has recently discovered a large polymetallic epithermal deposit, and identified more exploration targets, precious metals and base metals, at its Mitrovica licence.



## Metals Critical for the Green Transition

The importance of sustainable, transparent and secure supply chains

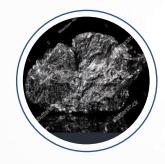
Beowulf's diversified portfolio is positioned to benefit from the Green Transition.

'Without secure and sustainable access to the necessary raw materials, our [European] ambition to become the first climate neutral continent is at risk… We [EU] have to build a more resilient supply chain, supporting projects and attracting more private investment from refining, processing and recycling. And while ensuring the highest social and environmental standards' European Commission President von der Leyen, September 2022



Iron Ore

Fossil-free steel production using high-grade iron concentrate and leveraging renewable power.



Graphite

Regional graphite processing and anode materials production supporting the rapidly growing lithium-ion battery market.



Zinc

Metal used for galvanizing steel, increasing its life and extending its lifecycle and replacement cycles.



Copper

Essential metal required in the electrification of society, green infrastructure and emobility solutions.



### **ESG**

#### Sustainability and Innovation

In its structure and systems, the Company is focused on four pillars in the construction of a sustainable organisation:

- 1. Corporate Governance;
- 2. Stakeholder Engagement;
- 3. Having a Long-term Time Horizon; and
- 4. Transparency and Accountability in our actions and communications to stakeholders.

The Company has adopted the following Disclosure Topics listed by the Sustainability Accounting Standards Board for the Metals and Mining sector (https://www.sasb.org/standards/) as material to the Company's stakeholders:













- The Company wants to be recognised for living its values of Respect, Partnership and Responsibility.
- We have identified, as material to the Company's activities, the specific UN Sustainable Development Goals and relevant actions under each goal which the Company will be building into its plans.
- In addition, our plans take into consideration our future compliance with The Equator Principles.
- The Company has published its ESG Policy which can be viewed on the Company's website following the link: <a href="https://beowulfmining.com/about-us/esg-policy/">https://beowulfmining.com/about-us/esg-policy/</a>





## Kallak Iron Ore Project

#### Sustainable source of high-grade iron concentrate

- Discovered by the SGU in the 1940s.
- First Exploration Permit awarded in 2006.
- Designated an Area of National Interest by SGU in February 2013.
- Drilling at Kallak North and South between 2010-2014, a total of 131 holes and 27,895 metres.
- Mineral Resource and Exploration Target Upgrade in May 2021 (1).
- Kallak North Exploitation Concession awarded by the Government in March 2022.

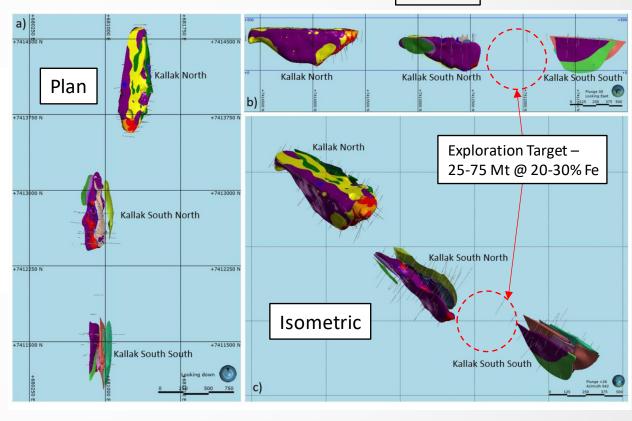
Deposit	Classification	Tonnes	$(g/cm^3)$	(%)	(%)	(%)	(%)	(%)	(%)
Kallak North	Measured	16	3.5	33.6	10.5	43.4	2.9	0.04	0.002
	Indicated	95	3.3	27.0	7.1	49.8	4.5	0.03	0.002
	Sub-Total	111	3.3	28.0	7.6	48.9	4.3	0.03	0.002
	Inferred	25	3.4	28.3	7.8	48.1	4.2	0.04	0.002
Kallak South North	Measured								
	Indicated	21	3.3	26.9	7.2	49.3	4.9	0.04	0.003
	Sub-Total	21	3.3	26.9	7.2	49.3	4.9	0.04	0.003
	Inferred	6	3.2	23.4	6.5	50.1	6.6	0.05	0.004
Kallak South South	Measured								
	Indicated								
	Sub-Total								
	Inferred	8	3.3	26.1	12.0	50.1	5.2	0.05	0.009
Total	Measured	16	3.5	33.6	10.5	43.4	2.9	0.04	0.002
	Indicated	116	3.3	27.0	7.1	49.7	4.6	0.03	0.002
	Sub-Total	132	3.3	27.8	7.5	48.9	4.4	0.03	0.002
	Inferred	39	3.3	27.1	8.5	48.8	4.8	0.04	0.004

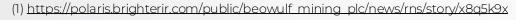
Million Density Fe

FeO SiO2 Al2O3 P



#### Section







Mineral

Resource Estimate

## Kallak – Progress this year

Focus on collaboration, partnership, and transparency

- · Kallak is Beowulf's main focus.
- Exploitation Concession was awarded in March 2022.
- In June 2022, Ulla Sandborgh was appointed as CEO of Jokkmokk Iron strengthening the Company's leadership in Sweden.
- SRK awarded Scoping Study contract.
- Deliverables:
  - ➤ Completion of Scoping Study in Q4 2022;
  - > Ongoing workstreams, including baseline environmental studies, to support Environmental Permit; and
  - > Application for the Environmental Permit in Q4 2023.
- The Company will build partnerships locally to maximise benefits of a mine to the community.

Kallak should benefit from regional demand growth driven by transition to fossil-free steelmaking. Downstream is attracted by Kallak's high-grade iron concentrate, as they look upstream to secure raw materials supplies.



# Kallak: 3-4 years from production (2026)

Critical to a Nordic fossil-free steelmaking supply chain



- Market Leading 71.5 per cent iron magnetite concentrate with low levels of impurities.
- Next best magnetite product on the market is LKAB's, which produces magnetite fines ("MAF") with a target specification of 70.7 per cent iron and is regarded as unique, until now, due to its exceptionally high iron content.



2.7 million tonnes per annum (Mtpa)

- The mine could produce approximately 2.7 Mtpa of concentrate based on the existing resource for Kallak North 'only' and modelled over an initial 15 years.
- In the Kallak area, 389 Mt of iron mineralisation has been identified, which could support a much longer life mining operation.



- Regional fossil-free steelmaking projects are already in development and need secure sources of raw materials.
- Excellent transport infrastructure. Inlandsbanan railway is
   ~ 40km to the east. Possible routes to domestic and Nordic
   markets, and regional ports for export.
- Access to renewable power supporting Net Zero goals.

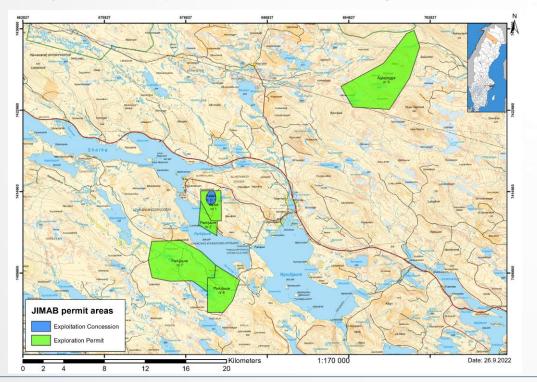


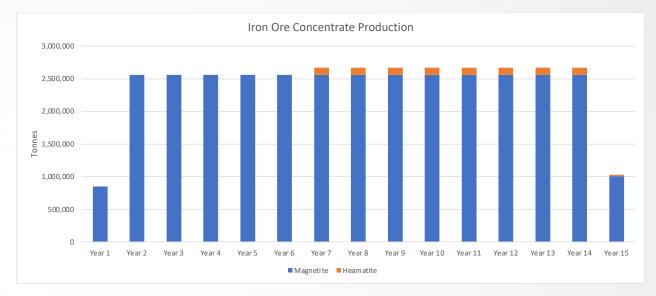
# Kallak North 'Only'



#### Upside - 389 million tonnes of iron mineralisation identified in the Kallak area

- Concept Mining Study for Kallak North completed in 2021.
- Kallak North mine could produce approximately 2.7 Mtpa of concentrate (predominantly magnetite).
- Given the expected demand for high-grade iron concentrate, it is likely that Kallak's production rate could be higher.





- Across Beowulf's licences, identified iron mineralisation supports the possibility for a longer life mining operation beyond Kallak North 'only'.
- 389 million tonnes includes Kallak North, Kallak South, and exploration targets across the Company's Parkijaure nr 2, 6 and 7 licences.
- The Company also has the Agåsjiegge nr 3 licence, which the SGU has previously estimated contains 75 million tonnes of magnetite iron mineralisation (not classified).



## Kallak: Environment and Society

Collaboration and Partnership

#### Environment

- Sweden is a leader in sustainable mining.
- Primary raw material production from mines is critical to ensuring secure supply chains, and the metals needed for the transition to a Green Economy.
- Kallak is in the right place at the right time, future high-grade iron concentrate
  production in proximity to fossil-free steelmaking, leveraging renewable power and
  innovation to design, engineer and operate a mine that sits in harmony with nature
  and meets society's needs.

#### Society

- Beowulf acknowledges the traditional owners of the lands at Kallak, past elders, present and emerging leaders, and now that the Concession decision has been made, the Company looks forward to re-engaging with them and together building a framework for ongoing good-faith dialogue.
- Kallak will bring SEK billions in investment and create hundreds of jobs in Jokkmokk Municipality, which needs both, benefiting all stakeholders.
- Discussions with the responsible local agency in Jokkmokk about conducting surveys to map the current and future workforce have started. This includes initiatives to ensure sufficient locally skilled persons are available for work in the mine, or in other business created by the economic stimulus of the mine.





## Graphite for Lithium-ion Battery Anodes



#### Regional, sustainable and secure supply chains, coupled with strategic manufacturing capability

- Graphite can be mined or made synthetically. In nature, graphite occurs in three different forms: amorphous, flakes and veins.
- Flake graphite can be converted to spherical graphite, which is used as anode material in Li-ion batteries. Graphite is needed for the production of lithium-ion batteries and for cleantech solutions.
- For the next decade graphite will remain the material of choice for anodes in lithium-ion batteries. As the demand for electric vehicles and the need for greater renewables storage surges, so too will the demand for graphite.
- The World Bank says graphite demand will increase by 500 per cent between 2018 and 2050, while the global graphite market is expected to reach US\$21.6bn by 2027.
- Geopolitical tensions, the European Green Transition, and a focus on sustainable and secure supply chains, as well as self-sufficiency, has led countries to re-assess their overreliance on Chinese supply of strategic materials including graphite.
- In 2021, the US Geological Survey estimated global graphite production of 1 Mt, with China accounting for 82 per cent, and Norway, the only listed producer in proximity to Europe, accounting for 1.3 per cent. Graphite is also on the EU's Critical Raw Materials' list.
- Grafintec is developing a resource and production base of graphite that can provide security of supply and contribute to Finland's ambitions of achieving self-sufficiency in lithium-ion battery manufacturing.





## Grafintec

#### Aiming to be a European leader in the sustainable supply of anode material



- Anode Materials Plans to establish anode materials production in Finland.
  - Partnership between Hensen and Grafintec to provide an integrated solution for production and supply of battery anode material, based on natural graphite and selective industrial process waste streams.
  - The partnership benefits from Hensen's proprietary process and technical know-how, and Grafintec's regional knowledge of market developments, access to funding opportunities and high-quality natural flake graphite resources, and sustainability focus on Circular Economy graphite feedstocks.



- Grafintec is developing the Aitolampi graphite project as an option for providing security of supply in the longer term of high-grade concentrate to downstream anode materials production.
- Total Indicated and Inferred Mineral Resource of 26.7 Mt at 4.8 per cent Total Graphitic Carbon ("TGC") for 1,275,000 t of contained graphite. Exploration upside with other graphite prospects.
- Advanced discussions with several mines to secure supplies of imported raw material in the the short term, and options for recycled graphite feedstock.
- Sustainability, Transparency and Security
- Sustainability focus.
- Local/optimised/seamless/ESG certified supply chain.
- Powered by renewable electricity.
- Key role in the Finnish battery cluster.







## Batteries from Finland

#### Supported by Finnish and European Funding

Grafintec is a recipient of Business Finland funding, which supports the development of anode material production within the Finnish battery cluster



- The development of a Finland-based Circular Ecosystem of Battery Metals.
- Part of battery supply chain development and recycling in Finland.
- Grafintec was granted EUR 791,000 funding -To develop a Bankable Feasibility Study for an anode materials production facility.
- Part of the EU Strategic Energy Technology
   Programme, where Finland, under the
   leadership of Aalto University and Outotec, will
   coordinate research into battery applications
   and recycling.



 Aims to improve traceability along the battery raw materials value chain, to validate responsible and sustainable sourcing of cobalt, nickel, lithium and graphite.



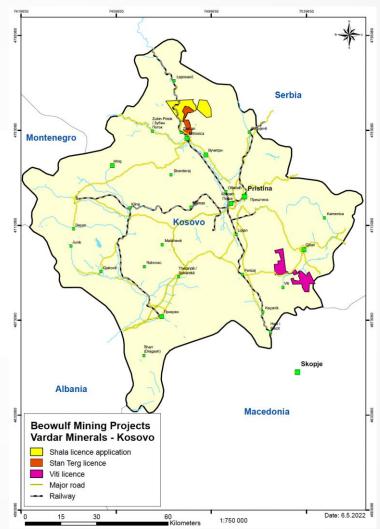






#### State-of-the Art Exploration

- The Tethyan Belt of south-east Europe can be regarded as the region's chief copper-gold (lead-zinc-silver) province contains several world class discoveries.
- Beowulf has invested approximately £3.1 million and owns 59.5 per cent of Vardar Minerals.
- Vardar has two exploration projects:
  - Mitrovica: lead, zinc, silver, copper, gold; and
  - <u>Viti</u>: copper, gold, lithium.
- Highly experienced and technically competent team.
- August 2022 Exploration Drilling in Kosovo Discovers Large Polymetallic Epithermal System. Polymetallic epithermal deposits (copper, gold and lead-zinc) form at shallow depths within the earth's crust and are important sources of base and precious metals and therefore constitute highly desirable exploration targets.
- September 2022 Additional compelling exploration targets increase the significant 'district' potential of Majdan Peak.









## Mitrovica Project



Ultramafic

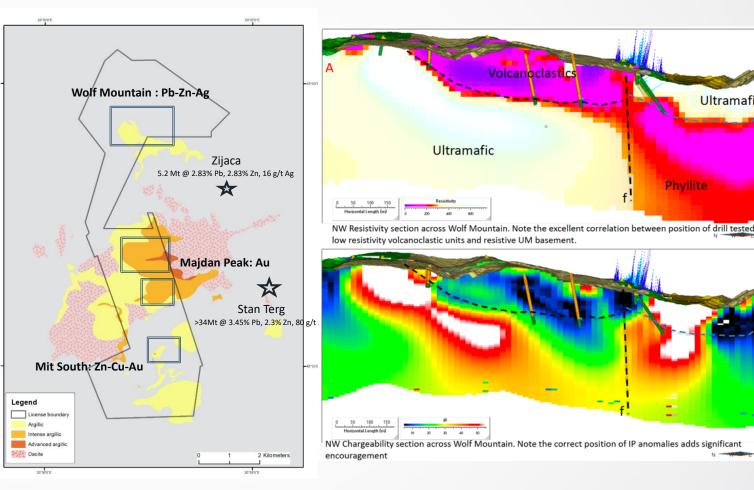
#### Building the picture – A large porphyry style mineralised system

- Immediately west and northwest of the world-class Stan Terg lead-zinc-silver mine.
- Licence includes numerous base and precious metal soil sampling anomalies, gossans and extensive alteration typical in porphyry related systems.

#### Priority targets include:

- Wolf Mountain
- · low-sulphidation lead-zincsilver target
- Majdan Peak
- high-sulphidation epithermal gold and base metal target
- Mitrovica South base/precious metal target

Potential also exists for primary underlying Legend porphyry copper mineralisation

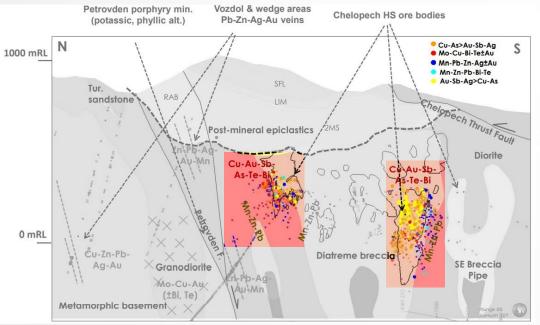




# Majdan Peak – Large Polymetallic Epithermal System

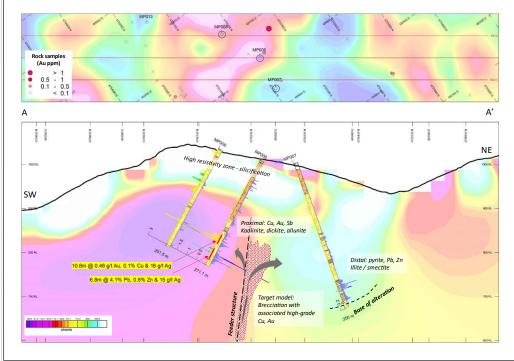


- 11 widely spaced diamond drillholes covering an area 1,400m by 700m.
- All drillholes intersected abundant sulphides, intense alteration, and multiple generations of veining which are all factors indicative of a large polymetallic epithermal system.
- Drillhole MP0006 produced highly anomalous gold-copper-silver intersections; interpreted by Vardar, these could sit on the periphery of potential feeder structure(s), providing the source of the abundant metals being found.
- The above supports the belief in the potential for epithermal mineralisation of economic grades to be present.



Above: Geological target model for the Chelopech deposit . From Martin, I (2021). Geochemical vectors in mineral exploration: integration, interpretation and modelling of high precision multielement and hyperspectral datasets. Lecture series.

Right: Section through drill holes MP006, MP007 and MP008. Profile plots of gold (yellow), copper (green), silver (light blue), lead (dark blue) and zinc (grey-blue). Resistivity data from 3D survey with interpreted bounding feeder structure and target model illustrated.



- Mineralisation is similar to that seen at the Chelopech copper-gold deposit in Bulgaria. The orebodies at Chelopech range from 40-200m in length, are 20-130m in thickness and can extend for up to 400m down plunge.
- Based on the similarities in the style of mineralisation at Majdan Peak, the Vardar team considers Chelopech to be a potential analogue deposit formed in this geological environment (Chelopech copper-gold deposit: Proven and Probable ore reserves of 1.6 million ounces of gold and 336 million pounds of copper).

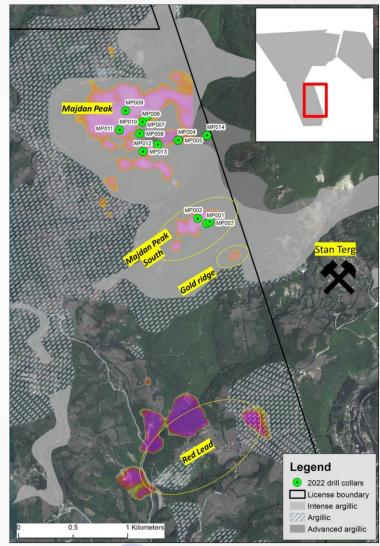


# Majdan Peak South – Significant 'district' potential



- Additional analysis of drilling and exploration activities in and around the Majdan Peak South ("MPS") target produced new exploration targets each of which could represent an economic deposit.
- MPS is one of several base and precious metal targets on the periphery of the large polymetallic epithermal system at Majdan Peak ("MP").
- Moving south from MP, we now have the drill tested target of MPS, and anomalous IP, rock chip and soil assays presenting at Gold Ridge and Red Lead.
- Drillholes into MPS target intersected abundant base and precious metal mineralisation, including silver, lead, zinc and copper. Demonstrating the potential for a deposit in the right geological conditions, chemical and/or structural, known as a trap-site, which literally traps metal in a specific location, and which we hope to intersect with a further drilling.
- MPS target remains open ended to the west and east with geophysical and surface mapping data indicating a strike length of over 600m.
- Other drill-ready targets on the periphery of the prime target, the MP hydrothermal system, reinforce the significant potential in the licence area and include:
  - Gold Ridge defined by a 300m long IP anomaly where rock chip grab samples have returned silver results of up to 7.2 g/t.
  - Red Lead defined by significant zinc and gold rock sample anomalies along a broad one kilometre long multi-element soil sample anomaly. Associated IP anomalies further support the soil and rock sample anomalies.

Locality map illustrating the extent of the alteration system (grey) from field mapping with high-chargeability IP anomalies overlain (pink). Drill collars are illustrated as green circles. Note the position of the Stan Terg skarn/carbo nate-replacement deposit to the east.





# Delivering Raw Materials Critical for the Transition to a Green Economy

Commitment to ESG, sustainability, innovation, and developing projects in partnership with communities

Building an offer of sustainable, transparent and secure supply of the raw materials critical for the transition to a Green Economy and addressing the Climate Emergency

Exposure to a diversified portfolio of essential metals needed for today and tomorrow

Focus on collaborations and partnerships to move downstream and create sustainable, seamless, transparent and secure supply chains

Experienced management team

## **Contacts**

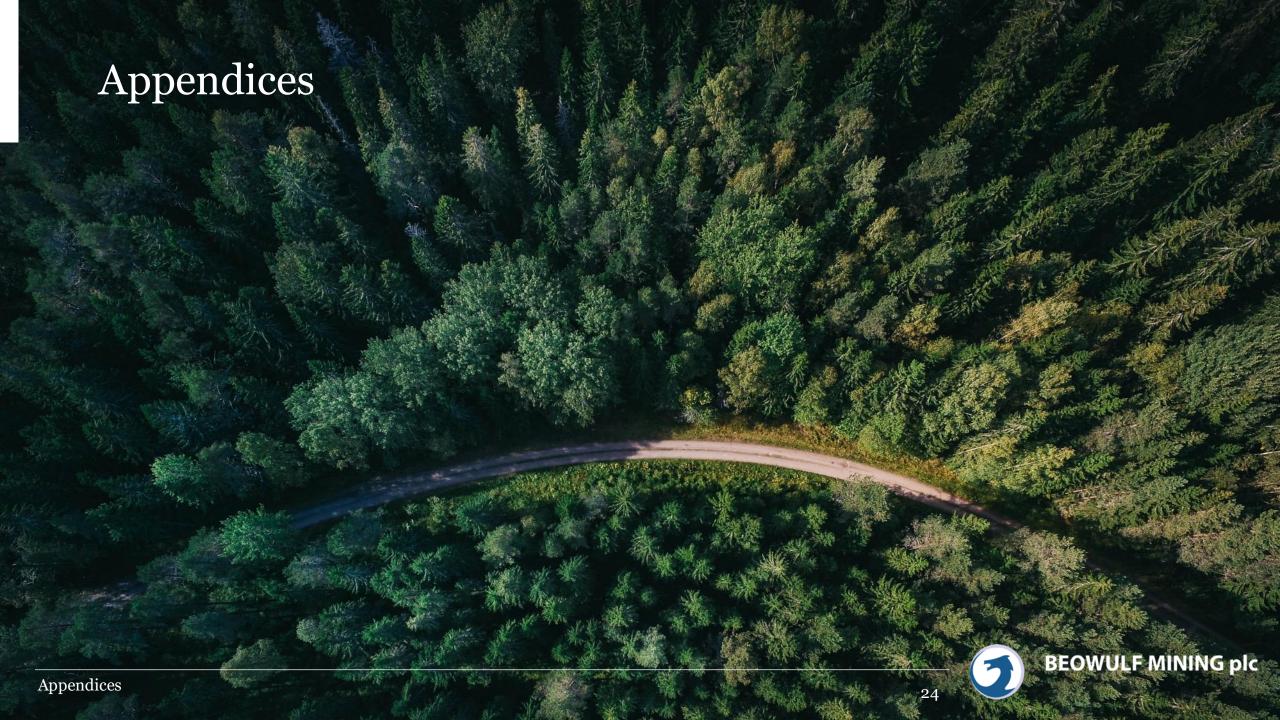


**Kurt Budge** Chief Executive Officer









## **Board and Management**



Sven Otto Littorin
BSc in Economics and Business
Non-Executive Chairman

Former politician and Sweden's Minister for Employment from 2006 to 2010. Since leaving government, he co-founded his own real estate development company and has held a number of advisory positions across Europe, North America and the Middle East. Most recent positions include serving as a member of the Advisory Board of Gravitas in Austria, a Partner with The Labyrinth Public Affairs in Sweden, and an Advisor to the Human Resources Development Fund in Saudi Arabia. Mr Littorin holds a BSc in Economics and Business from Lund University.



**Kurt Budge**MBA MEng in Mining Engineering ARSM
Chief Executive Officer, Beowulf Mining plc

Over 20 years' experience in the mining sector, during which he spent five years as a Business Development Executive in Rio Tinto's Business Evaluation Department. He has also been an independent advisor to junior mining companies on acquisitions and project development as well as a General Manager of Business Development for an AIM listed mining company. Kurt was Vice President of Pala Investments AC, a mining focused private equity firm based in Switzerland and has worked as a mining analyst in investment research.



Ulla Sandborgh
BSc in Civil Engineering
CEO of Jokkmokk Iron Mines AB

Ulla has held senior positions in private enterprise and public institutions, in sectors including infrastructure, electricity and water. Her most recent role was a Director General, Ministry of Enterprise, The Government of Sweden, in which role she was responsible for issues affecting the limestone and cement industries and accountable for the development of a strategy to promote the efficient and sustainable usage of water. Ulla has extensive experience in managing permitting processes and, as part of this, engaging with stakeholders, ensuring interests are safeguarded and benefits shared.



Christopher Davies
MSc DIC in Mineral Exploration FAusIMM
Non-Executive Director

Fellow of the Australasian Institute of Mining and Metallurgy, Chris is an exploration/ economic geologist with more than 30 years' experience in the mining sector with substantial knowledge of graphite and base metals. Chris has worked as a geologist in Africa, Australia, Yemen, Indonesia and Eastern Europe. His most recent role was as a Consultant to an Australian Group seeking copper-gold assets in Africa where he carried out technical due diligence and negotiated commercial terms for joint venture partnerships. Chris was Operations Director of African Eagle until March 2012 and Country Manager for SAMAX Resources in Tanzania, which was acquired by Ashanti Goldfields in 1998 for US\$135m.



Rasmus Blomqvist
MBA MSc in Geology and Mineralogy MAusIMM
Managing Director, Grafintec Oy

Rasmus, the founder of Grafintec, joined Beowulf in January 2016. He has been working in exploration and mining geology for over 18 years and holds an MSc in Geology and Mineralogy from Åbo Akademi University, Turku Finland, and an Executive MBA from Aalto University Executive Education, Helsinki Finland. Since 2012, Rasmus has been exploring for flake graphite within the Fennoscandian shield and is one of the most experienced graphite geologists in the Nordic region. He has also over the years gained an extensive knowledge of the graphite anode materials value-chain. Prior to Grafintec, Rasmus was Chief Geologist for Nussir ASA, managing its exploration team and achieving significant exploration success for the company. Prior to Nussir, Rasmus worked as an independent consultant for several international mining companies including Mawson Resources, Tasman Metals and Agnico Eagle and has experience in graphite, gold, base metals and iron ore, within the Nordic region. Rasmus is a member of the Australasian Institute of Mining and Metallurgy ("MAusIMM").



