



NORTHERN
GRAPHITE
CORPORATION

TSXV NGC
OTC NGPHF
FRA ONG
XSTU ONG
northerngraphite.com

Northern Graphite Third Quarter Operational and Development Project Update

November 9, 2022: Northern Graphite Corporation (**NGC:TSX-V, NGPHF:OTCQB, FRA:ONG, XSTU:ONG**) (the “Company” or “Northern”) is pleased to provide a third quarter update on its operations at the Lac des Iles (“LDI”) Quebec graphite mine and the Okorusu/Okanjande project in Namibia as well as its plans to expand mine concentrate production and build the capacity to upgrade it into battery anode material (“BAM”) in North America and Europe.

Lac des Iles

The LDI operation continued to perform well in the third quarter with 53,263 tonnes of ore milled at an average feed grade of 6.4% graphite. Recovery was 89.3% resulting in concentrate production of 3,068 tonnes with an average grade of 96.9% (versus 96.0% in the previous 2 months), and a flake size distribution of 13.5% +50 mesh, 22.3% -50 by +80 mesh, 20.5% -80 by +150 mesh and 43.7% -150 mesh. There was a significant drop in the strip ratio to 4.4:1 resulting in reduced mining and hauling costs per tonne of ore mined. A scheduled annual two week shutdown was implemented during July/August to allow for planned maintenance in the plant on key items of process equipment and minor repairs to some support structures.

Lac des Iles Q3 Highlights include:

Sales¹

Tonnes shipped	2,163
Tonnes sold	2,184
Sales (US\$)	3,436,144
Average selling price (US\$ per tonne)	1,573

Operations

Tonnes mined (ore + waste)	284,896
Tonnes of ore processed	53,263
Tonnes of graphite concentrate produced	3,068
Average concentrate grade	96.9%
Process plant recovery	89.3%

Other

No lost time accidents
No serious environmental incidents

1. All figures are preliminary and may be subject to material, quarter end closing adjustments. Sales have been converted to USD from the CAD ledger using average monthly FX

Hugues Jacquemin, CEO, commented that: “Our third quarter performance demonstrates that following the acquisition of Imerys SA’s natural graphite division Northern has successfully established itself as the only North American graphite producer and a company with industry leading production growth prospects. As a result, we are ideally positioned to benefit from continued EV demand growth and US and Canadian government support for the establishment of secure, local, ESG compliant supply chains for critical minerals including the conversion of mine concentrate to battery anode material.”

Namibian Operations Update

The capital program leading to the restart of the Namibia operation continued on schedule during the third quarter. Highlights include successful re-commissioning of the existing PLC system within the plant and the introduction of water through much of the flotation circuit. Work also commenced on the replacement of piping around the flotation section and a redundant ball mill was removed to make way for a new scrubber due on site early in 2023. All long-lead items of equipment have been ordered and detailed engineering for the new grinding circuit is well advanced. The use of a “dry tailings” disposal system is being investigated which has the potential to reduce both capital costs and water consumption.

The local management team has been boosted by the appointment of a Plant Manager and a Support Services Manager and the Namibian based Group Process Manager and Vice President Human Resources have been included in Northern’s corporate staff. Staffing up of the Health, Safety and Environment and accounting groups has also progressed and there are now 38 permanent employees engaged, all sourced within Namibia.

Northern has adopted initiatives to empower small businesses operating in Otjiwarongo and to provide on the job training opportunities for apprentices from credible vocational training institutions in Namibia. The start-up activities, the subsequent construction, and the improvement of the processing plant at Okorusu present an excellent opportunity for apprentices to receive intensive on-the-job training in their respective trades, and for small contractors to gain experience operating in a world-class construction environment. As part of its Corporate Social Responsibility investment drive Northern has committed to internship contracts with ten final year apprenticeship students in various technical fields from the Namibia Institute of Mining and Technology. During this 12-month period each apprentice is assigned an experienced coach and taken through intensive training in their respective trade. A monthly allowance is provided to each apprentice during the internship after which Northern plans to introduce a new cohort of students annually.

Mine Development Projects

On [October 5th](#) Northern announced the acquisition of a 100 per cent interest in the Mousseau West Graphite Project, a key component in its plans to extend the life of Lac des Iles after the existing pit is mined out and thus ensure continued employment and economic benefits for the Antoine-Labelle Regional Municipality and the Province of Quebec. With ore from Mousseau West, Northern believes the LDI plant can produce up to 25,000 tonnes per year (“tpy”) of concentrate with a seven day operating schedule. In addition, the Company continues to identify and evaluate other potential sources of ore in the area.

During the quarter work continued on advancing the Bissett Creek, Ontario project in preparation for raising funding to finance its development. The Company is finalizing major permits and negotiating agreements with First Nation groups as well as updating the feasibility study with an initial production target of 40,000 tpy for phase 1 of operation. The ultimate production capacity is in the order of 100,000 tpy. Northern has continued its dialogue with Federal and Provincial governments to obtain support to develop a mine which will be part of an Ontario mine to market supply strategy supporting the production of Battery Anode Materials.

In Namibia, Northern has prepared a statement of work for its large Okanjande development project which has the potential to produce up to 150,000 tpy. It will be seeking quotations from several engineering firms to prepare a Preliminary Economic Assessment for the project which will form the basis to start seeking financing for the project.

Battery Materials Development

Northern is aggressively advancing its strategy of upgrading mine concentrate into anode material for the Li ion Battery and EV markets. Ongoing testing of graphite from the Company's projects, both internally and by potential partners, continues to demonstrate that they are ideally suited for battery applications in terms of milling, shaping, purification, coating and electrochemical properties.

The Company is actively involved in discussions and negotiations with technology and OEM partners in both the US and Europe who want to collaborate with a quality supplier of graphite that has both current production and the capacity to support future growth. These discussions center on volume requirements and the timing thereof, and plans for downstream conversion facilities in both North America and Europe. Discussions are also being held with various Government organizations at both the federal and provincial level to gain support to speed up the development of the Battery Anode Supply chain, with a particular focus on Canada, in Ontario and Quebec.

Other Downstream Development Activities

In addition to the Battery Materials market, Northern has continued to expand its presence in various other downstream segments through its existing customer base. A particular focus is on Graphene applications and the use of graphite to provide enhanced thermal and electrical properties in a variety of high value composite applications. The Company is having ongoing discussions with customers and other companies in this space that are looking for support to develop these markets. As the only graphite producer in North America and on target to become the third largest outside of China, Northern is well positioned to invest in these new downstream markets and to support their growth.

About Northern Graphite

Northern is a Canadian, TSXV listed company that is focussed on becoming a world leader in producing natural graphite and upgrading it into high value products critical to the green economy including anode material for LiBs/EVs, fuel cells and graphene, as well as advanced industrial technologies.

Northern is the only significant graphite producing company in North America and targets becoming the third largest outside of China when its Namibian operations come back online in mid 2023. The Company also has two large scale development projects, Bissett Creek in Ontario and Okanjande in Namibia, that will be a source of continued production growth in the future. All projects have "battery quality" graphite and are located close to infrastructure in politically stable countries.

About Graphite

Graphite is a natural, pure form of carbon. It is not a carcinogen and because it is not burned, it is not a source of CO₂. Graphite has many industrial uses as a lightweight reinforcement, conductive additive and fire retardant. It has come to prominence because it is the largest component of a lithium-ion battery (and an important one in fuel cells), and it requires the largest production increase of any battery mineral to meet forecast EV demand. And China dominates production and processing. For these reasons it is recognized as a critical mineral by the US, EU and Canada.

Qualified Person

Gregory Bowes, B.Sc. MBA P.Geo is a "qualified person" as defined under NI 43-101 and has reviewed and approved the content of this news release.

For additional information

Please visit the Company's website at <http://www.northerngraphite.com/investors/presentation/>, the Company's profile on www.sedar.com, our **Social Channels** listed below or contact the Company at (613) 271-2124.



This news release contains certain "forward-looking statements" within the meaning of applicable Canadian securities laws.

Forward-looking statements and information are frequently characterized by words such as “plan”, “expect”, “project”, “intend”, “believe”, “anticipate”, “estimate”, “potential”, “possible” and other similar words, or statements that certain events or conditions “may”, “will”, “could”, or “should” occur. Forward-looking statements in this release include statements regarding, among others, the Company’s intentions with respect to bringing its Namibian operations back on line and to advancing its developments projects to production, and developing the capacity to manufacture value added products. All such forward-looking statements are based on assumptions and analyses made by management based on their experience and perception of historical trends, current conditions and expected future developments, as well as other factors they believe are appropriate in the circumstances. However, these statements are subject to a variety of risks and uncertainties and other factors that could cause actual events or results to differ materially from those projected including, but not limited to unexpected changes in laws, rules or regulations, or their enforcement by applicable authorities; the failure of other parties to perform as agreed; social or labour unrest; changes in commodity prices; unexpected failure or inadequacy of infrastructure and the failure of ongoing and contemplated studies to deliver anticipated results or results that would justify and support continued studies, development or operations. Readers are cautioned not to place undue reliance on forward-looking information or statements.

Although the forward-looking statements contained in this news release are based on what management believes are reasonable assumptions, the Company cannot assure investors that actual results will be consistent with them. These forward-looking statements are made as of the date of this news release and are expressly qualified in their entirety by this cautionary statement. Subject to applicable securities laws, the Company does not assume any obligation to update or revise the forward-looking statements contained herein to reflect events or circumstances occurring after the date of this news release.

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.