

## **Technological Innovation and Artificial Intelligence Will Provide for Increased Operational Safety at the Arianne Phosphate Project**

**DAN: TSX-V (Canada)**

**JE9N: FSE (Germany)**

**DRRSF: OTC (USA)**

SAGUENAY, QC, April 8, 2021 /CNW Telbec/ - **Arianne Phosphate (the “Company” or “Arianne”)** (TSXV: DAN) (OTC: DRRSF) (FRANKFURT: JE9N), a development-stage phosphate mining company, advancing the Lac à Paul project in Quebec’s Saguenay-Lac-Saint-Jean region, is pleased to announce significant advancements in the design of its future tailings facility. Arianne partnered with the Quebec Center of Geomatics (CGQ), to advance research and development on a new method for the design and future monitoring of the Company’s tailings operations. This work will use geomatic and remote sensing tools combined with artificial intelligence that should greatly improve the safety aspects of Arianne’s operations.

“The Lac à Paul mine is projected to be one of the most environmentally friendly phosphate mines in the world,” said Jean-Sébastien David, COO of Arianne Phosphate. “From the project’s onset, Arianne’s design process had the goal of constructing a mine using best environmental practices and, the integration of technology was vital in this regard. Further, our reliance on renewable hydro-electricity will allow us to greatly diminish our production of greenhouse gases [GHG] with the goal of ultimately being GHG neutral. Our most recent endeavors have also added to the safety and structural integrity of our tailings facility.”

Brian Ostroff, CEO of Arianne Phosphate added, “we take seriously our responsibilities surrounding environmental and safety issues. We know that many challenges surrounding mining operations stem from failures at their tailings facilities and, our work here goes a long way towards reducing these threats. Arianne will produce a high-purity, low-contaminant phosphate concentrate that provides for society’s needs but, in as safe and effective manner as possible.”

Arianne partnered with the Quebec Center of Geomatics (CGQ), a group within the College of Chicoutimi, in the Province of Quebec, to develop a new way to use geomatic and remote sensing instruments and monitor this information through a solution that uses artificial intelligence. It is during the construction process that sensors will be built in throughout the tailings dam that will measure, in real-time, data points such as moisture and pressure and, make adjustments as necessary to allow for smooth and safe operations, allowing for greater safety.

This research project was funded by the Natural Sciences and Engineering Research Council of Canada (NSERC) through its Partnership Engage Grants.

## **Qualified Person**

Jean-Sébastien David, P.Geo., Qualified Person by NI 43-101, has approved this release. Mr. David is also the Company's Chief Operating Officer.

## **About Arianne Phosphate**

Arianne Phosphate ("Arianne Phosphate Inc.") ([www.arianne-inc.com](http://www.arianne-inc.com)) is developing the Lac à Paul phosphate deposits located approximately 200 km north of the Saguenay/Lac St. Jean area of Quebec, Canada. These deposits will produce a high-quality igneous apatite concentrate grading 39% P<sub>2</sub>O<sub>5</sub> with little or no contaminants (Feasibility Study released in 2013). The Company has 173,354,669 million shares outstanding.

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## **Cautionary Statements Regarding Forward Looking Information**

***This news release contains "forward-looking statements" and "forward-looking information" within the meaning of applicable securities regulations in Canada and the United States (collectively, "forward-looking information"). Forward-looking information includes, but is not limited to, anticipated quality and production of the apatite concentrate at the Lac à Paul project. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives thereof or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might", or "will" be taken, occur or be achieved. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: volatile stock price; risks related to changes in commodity prices; sources and cost of power facilities; the estimation of initial and sustaining capital requirements; the estimation of labour and operating costs; the general global markets and economic conditions; the risk associated with exploration, development and***

**operations of mineral deposits; the estimation of mineral reserves and resources; the risks associated with uninsurable risks arising during the course of exploration, development and production; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support mining, processing, development and exploration activities; the risks associated with changes in the mining regulatory regime governing the Company; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; financing, capitalization and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at Lac à Paul project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issue of common shares; the risk of litigation. Forward-looking information is based on assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued exploration activities, no material adverse change in commodity prices, exploration and development plans proceeding in accordance with plans and such plans achieving their stated expected outcomes, receipt of required regulatory approvals, and such other assumptions and factors as set out herein. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking information. Accordingly, readers should not place undue reliance on forward-looking information. Forward-looking information is made as of the date of this press release, and the Company does not undertake to update such forward-looking information except in accordance with applicable securities laws.**

SOURCE Arianne Phosphate Inc.