

# Dundee Sustainable Technologies Inc.

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## NEWS RELEASE

### **DST signs contract with GMOB for Giant Mine test work using its GlassLock Process™**

MONTREAL, QUEBEC, May 26th, 2020 – Dundee Sustainable Technologies Inc. (“DST” or the “Corporation”) (CSE: DST) is pleased to announce that it has entered into an agreement with the Giant Mine Oversight Board (“GMOB”) to apply its GlassLock Process™ (“GlassLock” or the “Technology”) on arsenic trioxide material from the Giant Mine site north of Yellowknife in the Northwest Territories.

DST’s role in this project involves delivering kilogram scale, arsenical glass generated using GlassLock on arsenic dust samples provided by GMOB. The produced glass will be assessed by the GMOB and TERRE-NET to evaluate the amenability of the Technology to provide a viable remediation solution to the situation prevailing at the mine site. DST expects to deliver the glass to the GMOB research team within an 18-22 week period.

A State of Knowledge Review report prepared by Arcadis Canada Inc., released on September 11, 2017 on behalf of GMOB concluded that vitrification “ranked first in the scoring matrix for stabilization/treatment methods” based on the potential for long-term stability, moderate overall costs, and potential for gold recovery.

The GlassLock Process™ developed and patented by DST is designed for the sequestration of arsenic in a stable glass form. DST has successfully demonstrated its Technology at laboratory, pilot and industrial level, where arsenical material were processed to generate vitrified arsenical glass, containing up to 20% arsenic while meeting the United States Environmental Protection Agency's (EPA) toxicity characterization leaching procedure (TCLP, Method 1311).

The Corporation’s President and CEO, Mr. David Lemieux commented: “DST looks forward to collaborating with the GMOB and its academic partners with the objective of developing a long-term and permanent remediation process for the Giant Mine site and local communities. The Giant Mine is one of the largest worldwide arsenical remediation project by size and happens to be located in Canada. We are proud of the invitation received from GMOB to participate into those efforts. We look further to assist this Canadian project while creating value for our shareholders by leveraging and demonstrating the efficiency of GlassLock on such legacy arsenic dusts.”

### **About Giant Mine, GMOB and TERRE-NET**

The mineralized material at the Giant Mine is co-located with arsenopyrite, an arsenic-bearing mineral. During processing of the mineralized material, an arsenic trioxide dust mixture was generated, precipitated, and collected in baghouses. Beginning in 1951, the dust was stored on-site in purpose-built vaults, or in

previously mined out [underground] chambers (stopes). Over approximately 50 years of operation, 237,000 tonnes of arsenic trioxide dust were generated and stored on site. The dust is, on average, approximately 60% arsenic by weight. Arsenic trioxide is water soluble and poses a risk to both people and the environment through transport to local water bodies such as Baker Creek and the Great Slave Lake.

GMOB has a mandate to perform research that will identify a permanent solution for the management of arsenic trioxide stored underground at Giant Mine. Working with a consortium of researchers specializing in the management of mine wastes (referred to as TERRE-NET), GMOB is currently evaluating multiple arsenic trioxide stabilization techniques, one of which is vitrification.

**About Dundee Sustainable Technologies, a corporation controlled by Dundee Corporation**

The Corporation is engaged in the development and commercialization of environment-friendly technologies for the treatment of materials in the mining industry. Through the development of patented, proprietary processes, DST extracts precious and base metals from mineralized material, concentrates and tailings, while stabilizing contaminants such as arsenic, which could not otherwise be extracted or stabilized with conventional processes because of metallurgical issues or environmental considerations.

DST has filed, published and was granted patents for both the GlassLock Process™ and the CLEVR Process™ in numerous countries.

**FOR FURTHER INFORMATION PLEASE CONTACT:**

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Forward-looking statements are based on the expectations and opinions of the Corporation's management on the date the statements are made. The assumptions used in the preparation of such statements, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on forward-looking statements. The Corporation expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.

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