

# Dundee Sustainable Technologies Inc.

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## NEWS RELEASE

### **Dundee Sustainable Technologies Advances toward Commercialization of its Arsenic Stabilization Technology**

MONTREAL, QUEBEC, September 7<sup>th</sup>, 2016 – Dundee Sustainable Technologies Inc. (“DST” or the “Corporation”) (CSE: DST) is pleased to announce that it has successfully completed a piloting program (the “Program”) with an international gold mining company (the “Miner”) (Refer to February 3<sup>rd</sup>, 2016 press release). The Program demonstrated the technical feasibility of integrating DST proprietary arsenic stabilization technology (the “DST Technology”) into the Miner’s operations.

DST Technology is designed for the sequestration of arsenic in a stable glass form. During the course of the piloting program, DST reached optimal processing conditions for the successful vitrification of arsenical matter provided by the Miner. Several piloting runs allowed for arsenical material to be processed and to generate 670 kg of vitrified arsenical matter. The Program demonstrated the stability of the produced glass, which contained up to 20.4% arsenic, by passing the United States Environmental Protection Agency’s (EPA) toxicity characterization leaching procedure (TCLP, Method 1311) with 2.09 mg of arsenic per litre (limit of 5 mg/L).

The Program is part of a two-phase approach aimed, in a first phase, at confirming, at the pilot plant scale, that the DST Technology can be successfully implemented on material provided by the Miner for arsenic stabilization. In a second phase, a study may be performed, at the pre-feasibility level, to evaluate the technical and economic implications of a full-scale DST arsenic stabilization plant located at the site of the Miner’s operation.

DST Technology produces a more stable product than current industrial practices with competitive cost in terms of reagent and energy consumption when compared with the stabilization of arsenic by hydrated iron arsenate (scorodite). DST Technology is opening new opportunities for deposits or concentrates considered to contain too much arsenic to be exploited using conventional approaches.

These successful results constitute a major milestone in DST’s efforts to implement its arsenic stabilization technology on an industrial scale.

### **About Dundee Sustainable Technologies, a company controlled by Dundee Corporation**

The Corporation is engaged in the development 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 ores, 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.

At present, DST’s most advanced proprietary process is the extraction of precious metals using a chlorination process which provides a cyanide-free alternative for the exploitation of gold deposits.

The primary benefits of this innovative technology are shorter processing times, a closed-loop operation eliminating the need for costly tailings pond, and a reduced environmental footprint related to the inert and stable characteristics of the cyanide free tailings.

The chlorination process developed by DST is a recognized “green technology” for which it was awarded a \$5 million grant from the Government of Canada to assist in the construction and operation of a demonstration plant. The plant will serve as a demonstration platform for the chlorination process on an industrial scale and under continuous operating conditions.

In addition to the chlorination process, DST operates a pilot plant designed to demonstrate its arsenic stabilization process for the sequestration of arsenic in a stable glass form. This process is becoming an attractive solution to segregate the arsenic and is therefore opening opportunities for materials considered to contain too much of this toxic material to be exploited or stabilized using conventional approaches.

DST has filed, published and was granted patents for these processes in several countries.

**Dundee Sustainable Technologies Inc.**

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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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