

# Green Energy Mining Stock Defense Metals ( \$DEFN.V; \$DFMTF) Announces Additional Pre-Pilot Hydrometallurgy Test Results

*Defense Metals Corp. (TSX-V:DEFN / OTCQB:DFMTF/ 35D: FSE) is pleased to announce that it has received additional pre-pilot hydrometallurgical test work*

VANCOUVER, BRITISH COLUMBIA, CANADA, February 16, 2021 /EINPresswire.com/ -- Mining/Metals/ Green Energy Stock News From MiningSectorStocks.com and RenewableEnergyStocks.com - Defense Metals Corp. ("Defense Metals") (TSX-

V:DEFN / OTCQB:DFMTF/ 35D: FSE) is pleased to announce that it has received additional pre-pilot hydrometallurgical test work utilizing high-grade rare earth element (REE) mineral concentrate produced during Defense Metals' highly successful 26-tonne flotation pilot-plant that yielded a mineral concentrate averaging 7.4% NdPr oxide (neodymium-praseodymium)1 .

Read this news Featuring Defense Metals in full at

<https://www.investorideas.com/news/2021/mining/02161DEFN-Pre-Pilot-Hydrometallurgy.asp>

The road accessible Wicheeda REE Property is located close to infrastructure approximately 80 kilometres northeast of Prince George, British Columbia (BC). The Wicheeda project has indicated mineral resources of 4,890,000 tonnes averaging 3.02% LREO (Light Rare Earth Elements) and inferred mineral resources of 12,100,000 tonnes averaging 2.90% LREO 2.

Highlights of the additional infill hydrometallurgical test results conducted at SGS Canada Inc. ("SGS") Lakefield Site are as follows:

- Increased REE extraction from 91.5% to 97.3% from flotation concentrate (~75% from bulk sample feed) into a chloride-based leach solution compared to initial testing<sup>3</sup> (CC-21, Table 1)
- Decreased REE losses via milder gangue leach compared to the base-case flowsheet<sup>3</sup>
- Simplification of flowsheet by removing re-grind step and reducing caustic dosage on re-crack (CC-20) yielded comparable REE extraction of 95.8% from flotation concentrate (~74% from bulk



sample feed)

Craig Taylor, CEO of Defense Metals, stated: "Our decision to conduct additional infill hydrometallurgical test-work has yielded significant REE recovery gains approaching 100% REE extraction from the flotation concentrate. Perhaps more importantly, this additional testing has advanced the Wicheeda REE separation flowsheet such that we are able to "tune" process variables (chiefly: grind size, acid, and caustic concentrations) to achieve a balance of minimizing REE leach losses and maximizing impurity removal. This level of process control will de-risk our planned hydrometallurgical pilot plant and contribute to greater flexibility in design of a future commercial-scale hydrometallurgical plant."

Table 1. Comparison of 2019/2020 and 2021 Hydrometallurgical Nd Recoveries

See table at <https://www.investorideas.com/news/2021/mining/02161DEFN-Pre-Pilot-Hydrometallurgy.asp>

#### About the Wicheeda REE Property

The 1,708 hectare Wicheeda REE Property, located approximately 80 km northeast of the city of Prince George, British Columbia, is readily accessible by all-weather gravel roads and is nearby to infrastructure, including power transmission lines, the CN railway and major highways.

Geologically, the property is situated in the Foreland Belt and within the Rocky Mountain Trench, a major continental geologic feature. The Foreland Belt contains part of a large alkaline igneous province, stretching from the Canadian Cordillera to the southwestern United States, which includes several carbonatite and alkaline intrusive complexes hosting the Aley (niobium), Rock Canyon (REE), and Wicheeda (REE) deposits.

#### Qualified Person

The scientific and technical information contained in this news release as it relates to the Wicheeda REE Property has been reviewed and approved by Kristopher J. Raffle, P.Geo. (BC) Principal and Consultant of APEX Geoscience Ltd. of Edmonton, AB, a director of Defense Metals and a "Qualified Person" as defined in National Instrument 43-101 – Standards of Disclosure for Mineral Projects. Mr. Raffle verified the data disclosed which includes a review of the analytical and test data underlying the information and opinions contained therein.

#### Methodology and QA/QC

Hydrometallurgical product assays for neodymium was determined via lithium-borate fusion of a 0.5-gram sample analyzed via wavelength dispersion X-ray fluorescence (WD-XRF). The remaining rare earth elements for the head sample were determined via 0.5-gram sodium-peroxide fusion multi-element ICP-MS.

The SGS analyses included a quality assurance / quality control (QA/QC) program including the insertion of rare earth element standard and blank samples. Defense Metals detected no

significant QA/QC issues during review of the data. Defense Metals is not aware of any drilling, sampling, recovery or other factors that could materially affect the accuracy or reliability of the data referred to herein. SGS is an ISO/IEC 17025 and ISO9001:2015 accredited laboratory. SGS is independent of Defense Metals Corp. and the Qualified Person.

About Defense Metals Corp. <https://defensemetals.com/>

Defense Metals Corp. is a mineral exploration company focused on the acquisition of mineral deposits containing metals and elements commonly used in the electric power market, military, national security and the production of "GREEN" energy technologies, such as, high strength alloys and rare earth magnets. Defense Metals has an option to acquire 100% of the 1,708 hectare Wicheeda Rare Earth Element Property located near Prince George, British Columbia, Canada. Defense Metals Corp. trades in Canada under the symbol "DEFN" on the TSX Venture Exchange, in the United States, under "DFMTF" on the OTCQB and in Germany on the Frankfurt Exchange under "35D".

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Cautionary Statement Regarding "Forward-Looking" Information

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<https://www.investorideas.com/news/2021/mining/02161DEFN-Pre-Pilot-Hydrometallurgy.asp>

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1. See Defense Metals News Release dated September 23, 2020
2. Technical Report on the Wicheeda Property, British Columbia, effective June 27, 2020 and prepared by APEX Geoscience Ltd. (Steven J. Nicholls, B.A. Sc., MAIG and Kristopher J. Raffle, B.Sc., P.Geo) is available under Defense Metals Corp.'s profile on SEDAR ([www.sedar.com](http://www.sedar.com))

3. See Defense Metals News Release dated February 18, 2020

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