



PRESS RELEASE

AMERICAN VANADIUM FILES A PATENT ON ITS VANADIUM PURIFICATION PROCESS

September 24, 2012- AMERICAN VANADIUM CORP. (“American Vanadium” or the “Company”) (TSX.V: AVC) (OTCQX: AVCVF) has filed a patent application entitled, “VANADIUM OXIDE PURIFICATION PROCESS” with the US Patent and Trademark Office. This invention will allow the refinement of vanadium oxide for use as an electrolyte for mass storage batteries as well as other higher margin product lines such as aluminum and titanium vanadium master alloys.

American Vanadium has now conducted three sets of independent testing of the process and the average of these tests showed that no impurity was above 10 parts per million. It is anticipated that the actual operating plant being designed will provide better results than those attained in the laboratory.

“I cannot overstate the significance of this confirmation that our proprietary process will produce high purity, low cost vanadium electrolyte at our Gibellini Project in Nevada,” stated Bill Radvak, President & CEO of American Vanadium. “Combined with having the only vanadium mine in development in the US, this greatly enhances our ability to build joint venture partnerships in the vanadium flow battery business. In addition, we believe we will have the opportunity to use this proprietary process globally in other vanadium projects where the cost of purifying electrolyte using conventional methods is prohibitive and, in many cases, impossible.”

About American Vanadium Corp.

American Vanadium is developing the only primary vanadium mine in the United States. The Company’s Gibellini Project, located in Nevada, is being designed to economically produce vanadium products for the chemical and titanium alloying industries, as well as vanadium electrolyte for the energy storage industry.

This strategic asset gives American Vanadium the opportunity to vertically integrate into the highest value market, mass energy storage. The Company will focus on producing vanadium electrolyte, powders, crystals and oxide pellets for premium markets such as grid scale flow battery systems, chemical and pollution control applications as well as for the aerospace and defense industry.

A positive Feasibility Study and updated National Instrument 43-101 on the Gibellini Project were completed by AMEC E&C Services in 2011.

American Vanadium trades on the TSX Venture Exchange as a tier-one company under the symbol “AVC”, the OTCQX Market under the symbol “AVCVF” and the Frankfurt Stock Exchange under the symbol “OUA”.

ON BEHALF OF THE BOARD

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