

24 May 2021

## **VR8 APPOINTS SOUND MINING FOR BULK SAMPLING, GEOTECHNICAL DRILLING AND ORE RESERVE ESTIMATION**

### **HIGHLIGHTS**

- ◆ **VR8 has appointed Sound Mining Solution (Pty) Ltd for the purposes of:**
  - **Developing a bulk sampling campaign,**
  - **Developing a Geotechnical drilling campaign and,**
  - **Completing all outstanding work required for a maiden Reserve Ore Statement.**
- ◆ **Scope of work constitutes the early works component of planned DFS due to commence H2 2021**

With the Pre-Feasibility Study (PFS) on the Steelpoortsdrift project nearing completion, VR8 has decided to initiate some of the early works requirements of the Definitive Feasibility Study (DFS) planned to commence shortly after completion of the PFS. The early works initiated at this stage includes:

- The design, planning, costing and management of the bulk sampling campaign which is based on the optimised mine design (developed during the PFS). This includes recommended methodology, identifying the bulk sampling locations and depths as well as the selection of the contractor for the bulk sampling campaign. The bulk samples generated (approximately 2-4 tonnes per mineralised zone) will be used for the pilot plant test campaigns on both the conventional Salt Roast and Leach process as well as the alternative ESG TCM process (which will be focused on the extraction and production of both high-end green metals, such as high grade vanadium pentoxide, and hydrogen which could be used for energy to operate the plant and/or for sale to third parties).
- The design, planning, costing and management of a detailed Geotechnical drilling campaign in order to generate all data required for the final mine design including the pit slope angle designs.
- Identifying and resolving any outstanding items required for converting the Resources to Reserves with the aim being for VR8 to declare a maiden Ore Reserve during H2 2021.

For the purposes of the above work, VR8 has appointed Sound Mining Solution (Pty) Ltd (Sound Mining), which has been the lead consultant for the Geological and Mining sections during the PFS. This decision was reached due to the project knowledge gained during the PFS as well as their experience in the industry.

Sound Mining is an independent and privately owned minerals consultancy company. It was established in 2004 by Vaughn Duke and now consists of some 20 mining industry professionals who operate within Sound Mining and its associate companies. Sound Mining continues to grow and service clients both in Southern Africa and internationally.

Sound Mining offers services in the following mining related disciplines:

- Geology;
- Geotechnical;
- Mining; and
- Metallurgy.

**The core competencies of the Sound Mining team are:**

- Feasibility studies (concept/scoping/desktop/preliminary economic assessment (PEA), preliminary feasibility studies (PFS) and definitive feasibility studies (DFS);
- Mine design (open pit and underground mining);
- Mine production planning and scheduling;
- Planning of exploration programmes;
- Geological modelling;
- Geotechnical engineering;
- Mineral Resource and Reserve estimation (SAMREC/JORC/NI 43-101 compliant);
- Operating and capital cost estimation;
- Cash flow and economic modelling of mining projects;
- Project evaluation;
- Competent Persons' Reports (CPRs);
- Due diligence of mining projects;

- Mine operational planning (short and long term);
- Project and operational risk assessment;
- Owner's team representation; and
- Project management of feasibility studies.

*This announcement has been authorised for release by the Chief Executive Officer and Chairman of Vanadium Resources Ltd.*

**For further information please contact:**

**Kyla Garic**

Company Secretary

Vanadium Resources Limited

[contact@VR8.global](mailto:contact@VR8.global)