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MINING ASSETS

Lac Doré VTM Chibougamau, Quebec
Confirmation drilling to commence on 3.5km strike
Adjacent to Blackrock Metals Inc. Project

Iron-T VTM Project Matagami, Quebec
14,376,000 tonnes inferred at 0.42% V₂O₅
3km from Glencore Copper-Zinc Mine

CLEAN TECHNOLOGY

VanadiumCorp Electrochem Process
Technology “VEPT”
New green process method allows direct recovery of vanadium, iron, titanium and silica from many sources

Commercialization/Cash Flow Mandate
Patent Option Agreement Signed “POA” for Australia

BATTERY ELECTROLYTE

Vanadyl Sulfate
Dedicated & efficient recovery
Cost and carbon footprint advantage
Offtake potential for battery partners

Leading Research and Development
Developing new standards & purification methods
The Development strategy is to advance VanadiumCorp’s 100% owned “large scale” VTM resource base to a suitable stage of evaluation to obtain an industry partner who would fund and operate the development on a shared equity or joint-venture basis.
A L I T T L E  B I T  O F  H I S T O R Y

LAC DORE VTM COMPLEX

The presence of vanadium was first discovered in 1966 by Dr. Gilles Allard at the Lac Dore Complex

Over 200 reports covering drilling, metallurgy, 54 drill holes, 27 trenches, ground and airborne geophysical surveys, 8 different historic resource calculations (categorized as obsolete) and extensive engineering (SNC Lavalin).

Successful pilot production of vanadium, vanadium electrolyte and iron through smelting and salt-roasting testing by Rio Tinto, SOQUEM, Cambior and Mackenzie Bay International.

Adjacent Blackrock Metals 405 million tonne resource statement and feasibility study is aimed at 2021 VTM production.

2017->Trial production achieving full recovery of vanadium, titanium and iron using VEPT with 1/3 tonne/month capacity semi pilot reactor at Electrochem facilities in Quebec.

W O R L D  C L A S S  V T M
LAC DORE VTM PROJECT CHIBOUGAMAU, QUEBEC CANADA

COMPETITIVE ADVANTAGES

✓ 100% Owned & offtake Ready
✓ Tri-Metal – Vanadium, Titanium & Iron
✓ Favorable Metallurgy
✓ Largest geomagnetic signature along trend
✓ Mineralization at Surface
✓ Low strip ratio
✓ Next to Blackrock Metals Inc.
✓ +95% Recovery of all Metals (VEPT)
✓ Infrastructure Nearby
✓ Available Workforce
✓ Community & Government Support
✓ Zero Carbon Objective
CONFIRMATION DRILL PLAN

✓ Commencing in Spring 2019
✓ Phase I - 16,000m
✓ East and West deposit targets
✓ Largest geomagnetic signature along trend
✓ Measured & Indicated resource classification objective
✓ Drilling recommendations by Micon International Ltd.
IRON-T VANADIUM PROJECT MATAGAMI, QUEBEC CANADA

✓ 14.38M tonnes VTM at 0.42% of V$_2$O$_5$ inferred

✓ 3,500 Hectares encompasses the NI 43-101 resource titled “The Genesis Zone”

✓ Within 3km of Glencore Copper-Zinc “Matagami Mine”

✓ Remarkably similar geology to the prolific Bushveld Complex and Lac Doré Complex

✓ Open at depth and along strike

✓ Consistent drill results along the entire strike-length
New Paths to foster commercialization
Vanadium Redox Flow Batteries (VRB, VRFB)

“Off the shelf” equipment already utilized by the titanium pigment industry
THE VEPT PROCESS
Developed by world renowned electrochemist, Dr. Francois Cardarelli

Magnetite to VTM Concentrate

Calcine

Steel Slags

Magnetite to VTM Concentrate

VTM Concentrate to Vanadium Solution

Sulfuric Acid

Copperas (FeSO₄·7H₂O)

Electro-winning of iron and recycling of products

V₂O₅, V₂O₃, Vanadyl Sulfate

Titanium dioxide Co-products

Additional feedstocks compatible with VEPT include: hematite, metallurgical slags, fly ash, residues, by-products
**VEPT HIGHLIGHTS**

- Extracts maximum value from feedstock
- Substantial reduction of carbon emissions
- MINIMAL WASTE (eliminating need for dams and associated permits etc)
- Reduced regulatory risks
- Expedited project commissioning
- Significantly lower production costs
- Spreads risk over multiple markets
- Enables and supports the production of green energy

**Exclusive Australian Option to License VEPT to Ultra Power Systems Pty Ltd.**
VEPT EXTRACTS MAXIMUM VALUE FROM VTM

PRIMARY PRODUCTION METHOD FOR VANADIUM

OLD
Conventional Pyromet Process
1% RECOVERY
2 tons Carbon / 1 Ton Product

(Vanadium Bearing Feedstock)

NEW
Chemical Process
95%+ Recovery
Negligible Carbon

(Vanadium Bearing Feedstock)

Roasting and Smelting
High Cost, Technical Risk & Carbon Footprint

VEPT recovers valuable by-products that contribute significantly to revenue, thereby lowering the production costs of vanadium
Our Business Model

✓ Global Patent Development in Key Jurisdictions
✓ Cash flow mandate – Options, Licenses & Royalties
✓ Sale and lease of vanadium products by processing global feedstocks uniquely compatible with VEPT
✓ Revenue spread over multiple industries, reducing risk
✓ Potential for multiple processing plants

Global Deployment

Processing plant(s)

Low cost, high quality vanadium products

Cost Mitigation By Sale of By-products

By-products

Titanium, copperas, purified iron, silica markets

Steel & Alloy Market, Chemicals, Smart Windows, Lithium Cathodes, Solid State Batteries Supercomputing, Nano-Technology

VRB Storage Market (Sale & Lease of vanadium for energy storage)
MEET OUR MANAGEMENT TEAM

FINANCE & MINE DEVELOPMENT EXPERTISE

ADRIAAN BAKKER
President, Chief Executive Officer

JOHN HEWLETT
Director, Business Development

STEPHEN PEARCE
Director, Chief Financial Officer

SOKHIE PUAR
Director
Technical advisor and Qualified Person to assist with the development of the Company’s VTM assets with extensive vanadium mine development experience. Dr. Longridge is a senior structural and economic geologist with CSA Global, and is a registered professional natural scientist (Pr.Sci.Nat) with the South African Council for Natural Scientific Professions (SACNASP).

Micon International Limited ("Micon") is mandated for completing NI 43-101 technical reports given their relevant and specialized expertise in vanadium mining with companies such as Largo Resources Inc.
STRONG DEMAND AND DECREASING INVENTORY

Historic price volatility is a factor of limited supply: Few resources economic due to high cost and carbon footprint of current production methods.

$USD/LB Vanadium Pentoxide

$6.00 (20 year average price)

Unsustainable Production Cost

Average V Mine CAPEX: $600M USD
Average V Mine Timeline 5-10 years
Average Carbon Footprint/Tonne = 2 Tonnes

V$_2$O$_5$ PRICE PERFORMANCE

GLOBAL ANNUAL INVENTORY CHANGE
INCREASING CONSUMPTION IN ENERGY STORAGE

~6000 TONNES OF $V_2O_5$ IS REQUIRED PER GIGAWATT

TOTAL VANADIUM MARKET SIZE < 100,000 TONNES
“As the world transitions into a low carbon future we will require much more vanadium. Vanadium is a sustainable metal allowing unlimited storage life and capacity for clean energy as well as stronger, lighter and more resilient steels and alloys for infrastructure and transport. Vanadium is currently at the forefront of technology innovation yet it is in short supply. To address this, we recently co-developed a new chemical method that directly recovers vanadium sustainably from virtually any source. With a substantial resource base in Canada and technology to unlock global supply, I believe VanadiumCorp may hold the key to our low carbon future.”
Get in Touch

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VANADIUMCORP
VANADIUMCORP.COM
NEW CONTENT
ADDED DAILY
NEWSLETTER

VRB