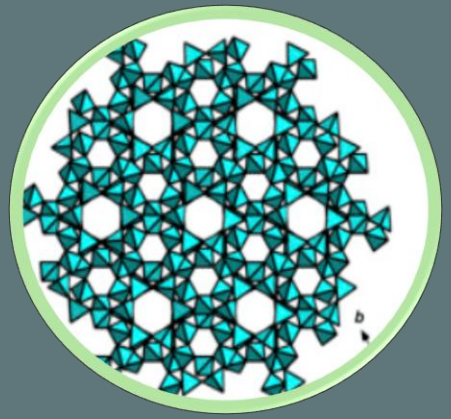
ZMM CANADA

Advanced Materials Solutions

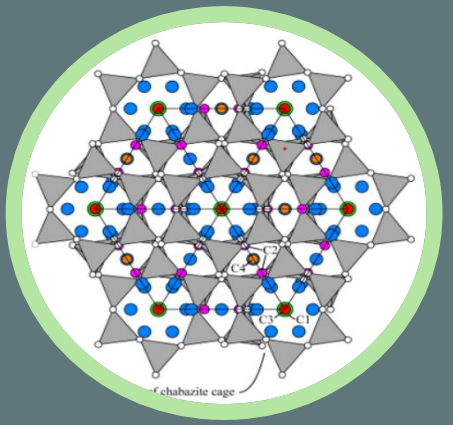


Thompsonite



Analcime

The Foundation of Next-Gen Clean Tech



Chabazite

ZMM TEAM
Proven Track Record



LuVerne Hogg
Founder, President, CEO, Director.
A global, clean tech expert on specialty zeolite properties and applications.



David McAdam
CFO. High growth, effective, results oriented expert who excels at financial management.



Valary Schulz
Founder, Director. Universally recognized as an expert in oil and gas petroleum geology.



Cheryl Hogg
Founder, Director. High-functioning administrator with extensive experience managing HR and regulatory.

CREATION OF NEXT-GEN CLEAN-TECH SOLUTIONS

ZMM CANADA is an advanced, clean-tech developer using natural materials, chemistry, and material science focusing on engineering innovative rare natural zeolite species and reactive mafic vesicular paramagnetic basalt solutions creating new products to solve today's complex environmental challenges.

Sustainable innovation is more than just new technology – it's about creating solutions that meet today's needs without compromising the future!

ZMM CANADA OVERVIEW

ZMM CANADA – a leader in clean-technology specializing in high-purity crystalline (HPC) zeolite and mafic vesicular paramagnetic basalt.

The company has a **"no-waste"** operation – every tonne of ore extracted is processed into a value-added product.

ZMM completed successful consultations with multiple First Nations.

30-Year renewable quarry leases on two key one of a kind high-purity zeolite/basalt orebodies secured in early 2022.

ZMM TransCanada (TC) deposit: 184 hectares, located 25km from Kamloops, BC.

ZMM Juniper (J) deposit: 40 hectares, located 30km from the TC deposit.

Shovel ready project: 7 million tonne resource base estimate – all operating permits in place.

ZMM product and property development expenditures exceed $6M.

ZMM HPC ZEOLITE



ULTRA HIGH PURITY CRYSTALLINE (HPC) ANALCIME AND CHABAZITE ZEOLITE

Porosity: Creates a hierarchical structure, possessing both large mesopores and uniform, tiny zeolitic micropores.

Reversible Hydration/Dehydration: Natural zeolites act as “molecular sieve”.

Structure: The structural combination yields an exceptionally large external surface area.

Tunable: Interzeolite conversion creates large port zeolites to compete with synthetic zeolites.

High Strength: Strong, durable molecular cages.

Thermal and Acid Stability: The highly ordered crystalline framework makes HPC resilient against high-temperature environments and aggressive chemical corrosion.

Selective Polar Adsorption: Molecular sieves that selectively trap water, gases, chemicals.

Powerfully Hydrophilic: Highly effective at removing water-borne pollutants like Na^{+}, K^{+}, or Ca^{2+}.

ZMM BASALT



TRANSCANADA RED AND BLACK BASALT ORE
MAFIC VESICULAR PARAMAGNETIC BASALT

ZMM Basalt is a rare geological occurrence of Eocene age an is host to ZMM High Purity Zeolite Crystals (HPC).

Basalt is an iron-rich, porous, structural mineral engineered for next-generation green infrastructure and new environmental remediation commodities i.e. SCM, CCU, and CCUS.

The vesicular structure has a large internal surface area and high cation exchange properties.

Contains Inosilicate/Phyllosilicate/Zeophyllite – high-capacity ion exchangers.

Strong Paramagnetism**:** Contains high volumes of iron (Fe) and magnesium (Mg) enabling separation of HPC from the basalt by magnetic separation for advanced agriculture and soil reparation.

ZMM has initiated a collaborative project on the development and evaluation of high-performance hybrid paramagnetic CO_2 capture materials and the reactor systems capable of directly capturing CO_2 from industrial flue gas and converting it into stable, value-added carbon-containing products.

TEST PIT ON ZMM TRANSCANADA ORE BODY



Phased Operational Strategy: Contract Mining to Capital Equipment Acquisition

ZMM HIGH-PERFORMANCE INDUSTRIAL SOLUTIONS - 1

High Purity Crystalline Zeolite (HPC) for Thermal Energy Storage (TES), Vacuum Insulation Panels (VIP), Waste to Valuables, Catalysts

Advanced Thermal Energy Storage: Development of zeolite substrates to optimize performance in TES systems.

Vacuum Insulation Panels: ZMM HPC is a hybrid core material in VIP technology.

Effective Adsorption and Capture of Metals in Solution: From mine waste waters and recycling of metals and ammonia, ensuring customers meet their effluent regulations while increasing mineral recovery.

Waste-to-Valuables Circularity: Converting industrial byproduct streams into high-value functional inputs i.e. recovery of potash from salt brines during potash production.

Catalysts: Speed up chemical reactions – the HPC is not consumed and is reusable.

Products of Canada

ZMM HIGH-PERFORMANCE INDUSTRIAL SOLUTIONS - 2

Mafic Vesicular Paramagnetic Basalt for Carbon Capture and Utilization (CCU), Carbon Capture, Utilization, and Storage (CCUS), Supplementary Cementicious Materials (SCM), Ultra-High Performance Concrete (UHPC), and Zeopolymers

Carbon Capture and Utilization and Carbon Capture, Utilization, and Storage: Developing advanced zeolite basalt materials for carbon mineralization and point-source capture, utilization, and storage.

Supplementary Cementicious Materials: SCM's replace a portion of Portland cement in concrete mixes to lower carbon emissions, improve strength, and increase the long-term durability.

Ultra-High Performance Concrete: Compressive strength exceeds 150 MPa and will provide exceptional tensile ductility and long-term durability for defence applications.

Zeopolymers: An innovative class of cement-free binders designed to replace traditional Ordinary Portland Cement (OPC) in construction – reduces carbon footprint up to 80%.

Products of Canada

ZMM HIGH-PERFORMANCE INDUSTRIAL SOLUTIONS - 3

ZMM Zeolite Basalt Whole Ore as Mined – Host to HPC, Environmental Remediation, Agriculture/Horticulture

Environmental Remediation (Soils & Water): Engineered media for targeted ammonia capture, selective mineral recovery from mine waste waters, repair damaged soils.

Encapsulation of Radioactive and Hazardous Waste: Naturally adsorbs and absorbs heavy radionuclides to permanently sequester them in concrete.

Compost Optimization: ZMM zeolite/basalt ore is a highly effective additive to accelerate decomposition, prevent nutrient loss, and boost the final overall soil-remineralization value.

Product Prices: Prices range from $175 to $1,400 per tonne.

Low Carbon Zeopolymer: Currently under development.

Products of Canada

ZMM INTELLECTUAL PROPERTY

Technical Validation and De-Risked R&D Infrastructure

ZMM technology is not a theoretical concept; it is a highly validated, industrially backed solution. The core Intellectual Property (IP) has been co-developed, refined, and rigorously tested in collaboration with Canadian Federal Agencies, university research departments, and industry.

ZMM has achieved:

Institutional Validation: World-class independent validation that eliminates execution and technical failure risk.

Defensible Global IP: A highly secure, protected technology moat built on rigorous institutional standards.

Capital Efficiency: Leveraged infrastructure that will allow us to reach commercial readiness at a fraction of standard market development costs.

This powerful combination of federal, academic, and industry engineering expertise has given our 30+ commercial contacts the confidence to issue their Expressions of Interest (EOIs).

EPITHERMAL FREE GOLD

Discovery

Epithermal gold was detected in three selected TransCanada mafic vesicular paramagnetic basalt assays, yielding values of 0.6 g/t, 1.2 g/t, and 2.9 g/t. Optical light microscopic examination confirmed the presence of fine-to micron-sized epithermal gold. ZMM will continue to evaluate the occurrence. This discovery provides a high value exploration upside.

ZMM has not defined a continuous or economically viable mineral resource. No metallurgical recovery testing has been conducted to confirm scalability. The Company makes no claims or projections regarding the future monetization or commercial recovery of any precious metal byproducts. ZMM's core economic model of the project remains focused on specialty zeolite and basalt production.

Interested Parties Please Contact:

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