

Carbonatite-Hosted Critical Minerals

Burntwood Project

Manitoba, Canada

RARE EARTH ELEMENTS | Nd - Pr - Sm - Y



As Integral Metals' Vice-President of Exploration and NI 43-101 Qualified Person, I reviewed assay certificates, field notes, geological mapping and sample locations, and spot-checked reported assays against original laboratory results. This validation supported integration of the 2024 datasets and defensible follow-up decisions.

TECHNICAL OBJECTIVE

Burntwood is an early-stage REE exploration target covering the Burntwood Lake alkaline syenite-carbonatite complex. Government mapping identified carbonatite veins, pods and dykes; Integral's 2024 program added rock, soil, biogeochemical and geomicrobial datasets to test for coherent REE and pathfinder responses beneath variable cover.

HOW I SUPPORTED ADVANCEMENT

- Verified assay certificates against original laboratory results, strengthening confidence in the analytical dataset.
- Reconciled field notes, mapping and sample locations so geochemical results could be interpreted in geological context.
- Provided technical oversight as four sampling media were brought together, helping define coincident rock and soil REE anomalies for follow-up.
- Reviewed and approved NI 43-101 disclosure as Burntwood progressed from newly acquired prospect to technical review and consideration of first-pass drilling.

RELEVANT CAPABILITIES

- Data Verification
- Multi-Media Integration
- REE Geochemistry
- Target Refinement
- NI 43-101 Oversight

PROJECT PROGRESSION

- 2024**
Property + Program
Acquired and sampled across four complementary media.
- APR-MAY 2025**
Signals Resolved
Biological pathfinders and a rock anomaly outlined.
- AUG 2025**
Targets Focused
Soil and rock anomalies converged in a follow-up zone.
- 2026**
Decision Support
Technical review informed consideration of first drilling.

SELECTED PUBLIC EVIDENCE

10,000+ ppm TREE
selected soil response
not a bedrock or resource grade

4 SAMPLING MEDIA
rock, soil, vegetation, microbial
integrated target support

Based on public Integral Metals disclosure through August 29, 2026. The result shown is a selected soil sample, not a project-wide or bedrock grade. No mineral resource has been defined. Contractors and research partners performed field, laboratory and specialist work as disclosed.

Sources: 2024 program | rock analysis | Burntwood results

Carbonatite-Hosted Critical Minerals



Woods Creek Project

Montana, USA

RARE EARTH ELEMENTS | NIOBIUM

As Integral Metals' Vice-President of Exploration and NI 43-101 Qualified Person, I verified assay certificates, field records, geological mapping and sample locations. That review established a defensible reconnaissance dataset, supporting progression from surface REE confirmation to expanded geochemistry, mineral-host characterization and target refinement.

TECHNICAL OBJECTIVE

Woods Creek is an early-stage carbonatite dyke system in Montana targeting light REEs - especially cerium, lanthanum, neodymium and praseodymium - plus niobium. Mapping and rock sampling establish surface context; QEMSCAN identified monazite as the dominant REE host and columbite as the principal niobium host in a selected sample.

HOW I SUPPORTED ADVANCEMENT

- Checked reported assays against original laboratory results and reconciled field observations with sample locations.
- Placed selected high-grade rock results in their geological and sampling context, avoiding project-wide grade implications.
- Verified the data basis used to expand geochemical analysis and characterize REE and niobium host minerals by QEMSCAN.
- Reviewed and approved disclosure as the project advanced toward GIS compilation and more focused mapping, sampling and geophysics.

RELEVANT CAPABILITIES

Data Verification

Rock-Assay Context

Mineralogy Review

Target Refinement

NI 43-101 Oversight

PROJECT PROGRESSION

2024

Reconnaissance

Carbonatite dykes mapped; more than 60 rocks collected.

FEB 2025

REE Confirmation

Selected rock assays confirmed strong REE enrichment.

MAY 2025

Host Definition

Monazite and columbite mineral hosts identified.

2025-2026

Target Refinement

GIS compilation and review sharpened next-step priorities.

SELECTED PUBLIC EVIDENCE

7.08% TREO

selected rock sample

Woods Creek sample CK-21A

>99% OF Nb

hosted in columbite

selected sample CK-12

Based on public Integral Metals disclosure through August 29, 2026. The TREO result is a selected grab sample, not a project-wide grade. QEMSCAN identifies mineral hosts; it is not a recovery test. No mineral resource has been defined. Field and specialist work was performed as disclosed.

Sources: project + assays | Woods Creek mineralogy

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Carbonatite and Alkaline Critical Minerals



Tharsis Project

Northwest Territories, Canada

RARE EARTH ELEMENTS | NIOBIUM | PHOSPHORUS

At Tharsis, I served as the named regulatory lead for Voyageur Exploration and later as COO and Director of Northern Critical Minerals. I submitted the Type A land-use permit package, then led its transfer and claim-area amendment. As Pan American Energy's Technical Advisor and NI 43-101 Qualified Person, I provided continuity through first-pass drilling.

TECHNICAL OBJECTIVE

Tharsis targets REEs, niobium and phosphorus in the Squalus Lake Alkaline Complex. Carbonatite dykes and fenite at surface, plus mineralogy, UAV magnetics, shoreline mapping and bathymetry, supported a model of prospective intrusive centres beneath Squalus Lake. The northern centre received its first subsurface test in 2026.

HOW I SUPPORTED ADVANCEMENT

- Converted early exploration concepts into an executable regulatory pathway by submitting the land-use application and supporting environmental, engagement and reclamation plans.
- Carried the permit into Northern Critical Minerals by signing its transfer and expansion from two claims to seven as operational control evolved.
- Provided technical continuity as surface, magnetic and bathymetric datasets reduced uncertainty in ice access, drill placement and target selection.
- Reviewed and approved technical disclosure as five holes delivered the complex's first direct subsurface geological constraints.

RELEVANT CAPABILITIES

Regulatory Leadership

Land-Use Permitting

Geophysical Integration

Drill Program Readiness

NI 43-101 Oversight

PROJECT PROGRESSION

2021

Surface Evidence

Mapping and sampling relocated historical REE anomalies.

2022-2023

Permit + Scale

Permit issued; authorized area expanded to seven claims.

2025

Target Readiness

Field, magnetic and bathymetric data integrated.

2026

First Subsurface Test

Five holes completed, then logged and sampled.

SELECTED PUBLIC EVIDENCE

464.5 METRES

initial drilling completed

2026 first-pass program

5 BOREHOLES

priority targets tested

core logged and sampled