

Platinum-group element geochemistry (neutron-activation analysis) of the PNI-10-35 and PNI-10-36 borehole pulps from the Alpha (Fish Lake) complex, Mount Hayes Quadrangle, Alaska

Millrock Resources and Bureau Veritas Commodities

Geologic Materials Center Data Report 476

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Suggested citation:

Millrock Resources, and Bureau Veritas Commodities, 2026, Platinum-group element geochemistry (neutron-activation analysis) of the PNI-10-35 and PNI-10-36 borehole pulps from the Alpha (Fish Lake) complex, Mount Hayes Quadrangle, Alaska: Alaska Division of Geological & Geophysical Surveys Geologic Materials Center Data Report 476, 1 p. <https://doi.org/10.14509/32141>



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INTRODUCTION

This report presents Platinum-group element geochemistry from 15 pulps from the Alpha (Fish Lake) complex PNI-10-35 and PNI-10-36 boreholes. Samples were analyzed by neutron-activation analysis. The Alpha (Fish Lake) complex is a mafic-ultramafic intrusive system in the eastern Alaska Range, part of the Wrangellia terrane, and known for Ni-Cu-PGE mineralization. It is associated with the Nikolai basalt magmatic system (Lande, 2016). Millrock Resources staff obtained pulps from the Alaska Geologic Material Center's (GMC) American Copper & Nickel Co. PURENICKEL collection and sent them to Bureau Veritas Commodities for analysis. The results have not undergone technical review and should not be cited as reviewed data or as an authoritative information source. These data are provided as a Geologic Materials Center Report under an open end-user license and are available from the DGGS website (<https://dggs.alaska.gov/pubs/id/32141>).

DATA PRODUCTS

- Bureau Veritas Commodities certificate of analysis
- GMC database inventory records

This data collection provides files and documentation exactly as received from the analyst. We retain the original submittal labeling throughout the files to preserve the integrity of the source materials.

ACKNOWLEDGMENTS

The Alaska Geologic Materials Center (GMC) connects the state's largest geologic collections to research, industry, and education communities, fostering greater geologic understanding, increased awareness of economic opportunities, and stimulating public interest and knowledge in Alaska's geologic history. The GMC data archive provides analytical and interpretive data from third-party testing on material borrowed from samples housed at the Alaska Geologic Materials Center. Simone Montayne and GMC staff compiled this data release.

REFERENCES

Lande, L.L., 2016, A petrological model for emplacement of the ultramafic Ni-Cu-PGE alpha complex, eastern Alaska Range: Fairbanks, Alaska, University of Alaska Fairbanks, M.S. thesis, 144 p.

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