New Results of Geological Mapping and Micropaleontological and Lead Isotopic Studies of Volcanogenic Massive Sulphide–Hosting Stratigraphy of the Middle and Late Paleozoic Sicker and Lower Buttle Lake Groups on Vancouver Island, British Columbia (NTS 092B/13, 092C/16, 092E/09, /16, 092F/02, /05/07)

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The presentation includes maps and diagrams of geological areas such as Cowichan, Port Alberni and Nanoose Areas, and Bedingfield Area. It discusses the results of geological mapping, micropaleontological and lead isotopic studies, focusing on the Middle and Late Paleozoic Sicker and Lower Buttle Lake Groups on Vancouver Island. The areas of interest include the Cowichan Area, which is overlain by mineral tenure owned by project sponsor Bitterroot Resources Ltd., and the Cowichan area, largely on exposures underlying mineral tenure owned by project sponsors Treasury Metals Inc. and Westridge Resources Inc. Ongoing geological investigations of the stratigraphy of Paleozoic Wrangellia and its contained VMS occurrences in 2009 continued on exposures of the Cowichan, Nanoose, and Bedingfield uplifts, as well as nitrate and sulfate mineralization.

The presentation also includes a figure showing geological and geochemical data, such as lithogeochemical plots for Sicker Group rock units in the southeastern part of the Cowichan Lake uplift, and a multielement diagram normalized to primitive mantle (Sun and McDonough, 1989). The authors thank W. Francis, for sharing their time and knowledge of Sicker Group geology and Ruks and B. Smyth for capable assistance in the field, and Island Timberlands and the District of Nanaimo Mining Divisions, NTS map areas 92E/16E, 92L/1E, Latitude 49°55′00″ N, 126°20′00″ W; for providing a critical review of the manuscript from which this poster is based.