MAP OF INDUSTRIAL MINERAL OCCURRENCES IN ALASKA

by

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INTRODUCTION

This index was compiled to identify known industrial minerals occurrences in Alaska and to provide a bibliography of publications that address industrial minerals in at least moderate detail. Source materials include publications of the Alaska Division of Geological & Geophysical Surveys, the U.S. Geological Survey, the U.S. Bureau of Mines, and many others. Publications listings and bibliographies were consulted to identify potentially relevant titles; the corresponding publications were examined and assessed for locations and descriptions of industrial minerals resources. This index should not be regarded as comprehensive, for there may be publications containing information on industrial minerals occurrences in Alaska that were not targeted by the search routines employed in the compilation of these maps.

Industrial minerals locations and commodities that were identified in selected publications are shown on sheets 1 and 2. Metallic industrial minerals are shown on sheet 1 and nonmetallic industrial minerals are shown on sheet 2. Construction materials (stone; sand and gravel) are not included in this bibliography because occurrences are so numerous and widespread that the documentation of their distribution is beyond the scope of this report. The first of the following bibliographic listings on which the maps were based is listed alphabetically by commodity. The second bibliographic listing is by 1:250,000-scale U.S.G.S. quadrangle.

METALLIC MINERALS

Aluminum


**Chromium**

Alaska Department of Revenue, 1983, Mine License Application.

Alaska Department of Revenue, 1985, Mine License Application.


Holdsworth, P.R., 1954, Investigation of Claim Staking (Union Bay Area); Alaska Territorial Department of Mines Prospect Evaluation PE-119-23.


Mattson, M.J., 1978, Production Statistics of Cache Creek, Yentna District, Talkeetna Quadrangle; Letter to Thad E. Sandford.


Mining World, 1951, Alaska--Gold Output at Post-War Peak: Platinum and Tin Placering; Mining World 5104.


Payne, T.G., Dana, S., Fischer, W., Gryc, G., Latham, E., Morris, R., Tappan, H., and Yuster, S., 1952, Geology of the Arctic Slope of Alaska; U.S. Geological Survey Oil and Gas Investigations Map 126, 1 sheet, scale 1:1,000,000.


Saunders, R.H., 1955, Sours Chromium Prospect (Agashashok R.); Alaska Territorial Department of Mines Prospect Evaluation PE-26-1, 4 p.


Williams, J.A., 1954, Magnetic Exploration of the Red Mountain Chromite Deposit, Kenai, Peninsula; Prospect or Properties Examined, Alaska Territorial Department of Mines PE 104-3, 22 p.


Columbium


Williams, J.A., 1955, Carol Anne Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-7, 5 p.

Williams, J.A., 1955, I & L Property (Kendrick Bay), Alaska Territorial Department of Mines Prospect Evaluation PE-121-5, 8 p.

Iron


Fowler, H.M., 1950, Snettisham Iron Deposit; Alaska Territorial Department of Mines Mineral Investigations MI-115-1, 3 p., 1 map.


Glover, A.E., 1954, Tah Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigations MI-121-1, 3 p.


Holdsworth, P.R., 1954, Investigation of Claim Staking (Union Bay Area); Alaska Territorial Department of Mines Prospect Evaluation PE-119-23.


Humble Oil and Refining Co., 1959, Kemuk Mountain Iron Ore Prospect; Alaska Territorial Department of Mines Miscellaneous Report MR-102-1, 12 p., 4 maps.


Payne, T.G., Dana, S., Fischer, W., Gryc, G., Lathram, E., Morris, R., Tappan, H., and Yuster, S., 1952, Geology of the Arctic Slope of Alaska; U.S. Geological Survey Oil and Gas Investigations Map 126, 1 sheet, scale 1:1,000,000.

Pillmore, C.L., and McQueen, K., 1956, Map of Salt Chuck Area, Prince of Wales Island, Alaska, Showing Linear Features as Seen on Aerial Photographs; U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-230, 1 sheet, scale 1:12,000.


Roehm, J.C., 1938, Copper Came Group (Karta Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-10, 2 p.

Roehm, J.C., 1938, Copper Center Prospect (Kasaan Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-119-9, 2 p.

Roehm, J.C., 1938, Mucker's Dream Group (Windfall Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-14, 3 p.

Roehm, J.C., 1938, Shepard Group (Kasaan Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-119-11, 2 p.

Roehm, J.C., 1938, Venus Group (Karta Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-12, 2 p.

Roehm, J.C., 1939, Jack Wilcox Gold Prospect (Nuktwa Property, Nuktwa Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-18, 4 p., 2 maps.
Roehm, J.C., 1941, Iron Capor Mahoney Prospect (Tolstoi Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-19, 2 p.


Still, J.C., 1984, Copper, Gold, Platinum, and Palladium Sample Results From the Klukwan Mafic/Ultramafic Complex, Southeast Alaska; Bureau of Mines Open-File Report 21-84, 53 p.


Wilcox, H.G., 1938, Kasaan Gold Property (Twelve Mile Arm, Harris Creek); Alaska Territorial Department of Mines Prospect Evaluation PE-119-5, 2 p.


Williams, J.A., 1953, Snettisham Magnetic Survey (Port Snettisham); Alaska Territorial Department of Mines Prospect Evaluation PE-115-5, 25 p., 1 sheet, scale 1:3,000.


**Magnesium**


Manganese


Barnwell, C.E., 1990, Arctic Slope Consulting Engineers; Written Communication, July 1990.


Roehm, J.C., 1938, Children Group (Hungerford Creek); Alaska Territorial Department of Mines Prospect Evaluation PE-116-1, 2 p.


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Rare Earth Elements

Alaska Department of Revenue, 1985, Mine License Application.


Glover, A.E., 1951, Salmon Bay-Red Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigation MI-117-1, 6 p.


Williams, J.A., 1955, Carol Anne Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-7, 5 p.

**Thorium**


Glover, A.E., 1951, Salmon Bay-Red Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigations MI-117-1, 6 p.

Glover, A.E., 1954, Tah Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigations MI-121-1, 3 p.


Williams, J.A., 1955, Carol Anne Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-7, 5 p.

Williams, J.A., 1955, I & L Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-5, 8 p.

Titanium


Humble Oil and Refining Co., 1959, Kemuk Mountain Iron Ore Prospect; Alaska Territorial Department of Mines Miscellaneous Report MR-102-1, 12 p., 4 maps.


**Uranium**

Alaska Department of Revenue, 1985, Mine License Application.


Glover, A.E., 1951, Salmon Bay-Red Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigations MI-117-1, 6 p.

Glover, A.E., 1951, Union Bay Reconnaissance (Cleveland Peninsula); Alaska Territorial Department of Mines Mineral Investigations MI-119-2, 4 p.


Jones, D.A., 1953, Foster Lead-Silver Prospect (Seward Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-44-1, 14 p., 3 maps.


Mattson, M.J., 1978, Production Statistics of Cache Creek, Yentna District, Talkeetna Quadrangle; Letter to Thad E. Sandford.


Sandvik, P.O., 1956, Mineral Investigation of a Radioactive Anomaly in the Candle Area; Alaska Territorial Department of Mines Mineral Investigations MI-44-2, 6 p., 1 map.


Williams, J.A., 1951, Radiometric Investigations, Connel Property (28 Mile); Alaska Territorial Department of Mines Prospect Evaluation PE-51-1, 10 p.

Williams, J.A., 1955, BBH Property (Endicott Arm); Alaska Territorial Department of Mines Prospect Evaluation PE-115-7, 7 p., 1 sheet, scale 1:480.

Williams, J.A., 1955, Carol Anne Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-7, 5 p.

Williams, J.A., 1955, I & L Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-5, 8 p.

Williams, J.A., 1955, Lazo Property (Moira Sound); Alaska Territorial Department of Mines Prospect Evaluation PE-121-6, 3 p.

Williams, J.A., 1956, Alibill No. 2 Claim (Alfred C. Wolk Property); Alaska Territorial Department of Mines Prospect Evaluation PE-109-3, 8 p.


Vanadium


Holdsworth, P.R., 1954, Investigation of Claim Staking (Union Bay Area); Alaska Territorial Department of Mines Prospect Evaluation PE-119-23.


Pillmore, C.L., and McQueen, K., 1956, Map of Salt Chuck Area, Prince of Wales Island, Alaska, Showing Linear Features as Seen on Aerial Photographs; U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-230, 1 sheet, scale 1:12,000.


NONMETALLIC MINERALS

Asbestos

Anderson, E., 1945, Asbestos and Jade Occurrences in the Kobuk River Region, Alaska; Alaska Territorial Department of Miners Pamphlet 3-R, 48 p.


Barite


Elmendorf, W.J., 1920, Lime Point Barite Deposit (Prince of Wales Island); Alaska Territorial Department of Mines Miscellaneous Report MR-119-1, 9 p.


Fowler, H.M., 1948, Lime Point Barite Occurrence (Prince of Wales Island); Alaska Territorial Department of Mines Prospect Evaluation PE-119-21, 4 p.


**Calcium**


Herreid, G.H., 1961, Morey-Quinlan-Tengs Limestone Property (Mile 39, Haines Highway, Klukwan); Alaska Territorial Department of Mines Prospect Evaluation PE-109-4, 6 p., 1 map.


Roehm, J.C., 1946, Some High Calcium Limestone Deposits in Southeastern Alaska; Alaska Territorial Department of Mines Pamphlet 6, 20 p.


Clay


Jasper, M.W., 1953, J. Fabian and D. Moore Clay Deposit (Little Susitna River); Alaska Territorial Department of Mines Prospect Evaluation PE-85-18, 1 p.

Diatomite


Flourine


Lost River Mining Corp., Ltd. (Toronto), 1972, Annual Report, 1972; Lost River Mining Corporation Ltd, 15 p.


**Gemstone**

Anderson, E., 1945, Asbestos and Jade Occurrences in the Kobuk River Region, Alaska; Alaska Territorial Department of Miners Pamphlet 3-R, 48 p.


**Graphite**


Gustafson, F.D., 1946, Camel-Gypsum Group (Iyoukeen Cove); Alaska Territorial Department of Mines Miscellaneous Report MR-114-6, 61 p., 3 maps.

Herreid, G.H., 1962, Camel Gypsum Property (Iyoukeen Cove); Alaska Territorial Department of Mines Prospect Evaluation PE-114-14, 5 p., 1 map.


**Kyanite Group**


**Mica**

Anderson, E., 1943, Pargon Mountain Muscovite Prospect (Seward Peninsula); Alaska Territorial Department of Mines Mineral Investigation MI-44-1, 9 p., 2 maps.


**Perlite**

Phosphate


Pumice

Quartz Crystal


Silica


Sulfur


Wollastonite


**Zeolites**


**Zirconium**


**QUARTER-MILLION QUADRANGLES**

**Ambler River**

Anderson, E., 1945, Asbestos and Jade Occurrences in the Kobuk River Region, Alaska; Alaska Territorial Department of Miners Pamphlet 3-R, 48 p.


Anchorage

Alaska Department of Revenue, 1982, Mine License Application.
Alaska Department of Revenue, 1983, Mine License Application.
Alaska Department of Revenue, 1984, Mine License Application.


Jasper, M.W., 1953, J. Fabian and D. Moore Clay Deposit (Little Susitna River); Alaska Territorial Department of Mines Prospect Evaluation PE-85-18, 1 p.


Arctic


Baird Mountains


**Beechey Point**


**Bendeleben**

Anderson, E., 1943, Pargon Mountain Muscovite Prospect (Seward Peninsula); Alaska Territorial Department of Mines Mineral Investigations MI-44-1, 9 p., 2 maps.


Jones, D.A., 1953, Foster Lead-Silver Prospect (Seward Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-44-1, 14 p., 3 maps.

Sandvik, P.O., 1956, Mineral Investigation of a Radioactive Anomaly in the Candle Area; Alaska Territorial Department of Mines Mineral Investigations MI-44-2, 6 p., 1 map.

**Bering Glacier**


**Bethel**


**Bettles**


**Big Delta**

Alaska Department of Revenue, 1982, Mine License Application.


Saunders, R.H., 1958, Coben Graphite Prospect (French Creek); Alaska Territorial Department of Mines Prospect Evaluation PE-59-2, 2 p.


**Bradfield Canal**


**Candle**


Chandalar


Chandler Lake

Barnwell, C.E., 1990, Arctic Slope Consulting Engineers; Written Communication.


Govier, R.D., 1994, Bureau of Mines, Research Center, Salt Lake City, Utah; Written Communication.


Vandel, J., 1993, Bureau of Mines Salt Lake City Research Center; Written Communication.


Charley River

Alaska Department of Revenue, 1983, Mine License Application.


Williams, J.A., 1951, Radiometric Investigations, Connel Property (28 Mile); Alaska Territorial Department of Mines Prospect Evaluation PE-51-1, 10 p.
Chignik


Christian


Circle

Alaska Department of Revenue, 1985, Mine License Application.


**Cold Bay**


**Coleen**


Cordova

Alaska Department of Revenue, 1982, Mine License Application.


Craig

Alaska Department of Revenue, 1982, Mine License Application.


Glover, A.E., 1951, Union Bay Reconnaissance (Cleveland Peninsula); Alaska Territorial Department of Mines Mineral Investigation MI-119-2, 4 p.


Hodge, E.T., 1944, Southeastern Coastal Alaska Limestone Terrain; Alaska Territorial Department of Mines Miscellaneous Report MR-191-8, 29 p., 2 sheets, scale 1:1,900,800.

Holdsworth, P.R., 1954, Investigation of Claim Staking (Union Bay Area); Alaska Territorial Department of Mines Prospect Evaluation PE-119-23.


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Roehm, J.C., 1938, Copper Came Group (Karta Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-10, 2 p.

Roehm, J.C., 1938, Copper Center Prospect (Kasaan Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-119-9, 2 p.

Roehm, J.C., 1938, Mucker's Dream Group (Windfall Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-14, 3 p.

Roehm, J.C., 1938, Shepard Group (Kasaan Peninsula); Alaska Territorial Department of Mines Prospect Evaluation PE-119-11, 2 p.

Roehm, J.C., 1938, Venus Group (Karta Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-12, 2 p.

Roehm, J.C., 1941, Iron Capor Mahoney Prospect (Tolstoi Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-19, 2 p.

Roehm, J.C., 1946, Some High Calcium Limestone Deposits in Southeastern Alaska; Alaska Territorial Department of Mines Pamphlet 6, 20 p.


Wilcox, H.G., 1938, Kasaan Gold Property (Twelve Mile Arm, Harris Creek); Alaska Territorial Department of Mines Prospect Evaluation PE-119-5, 2 p.


**De Long Mountains**


**Demarcation Point**


**Dillingham**


**Dixon Entrance**


Barker, J.C., and Warner, J.D., 1988, USBM Inventories Alaskan Rare Earths Deposits; Engineering & Mining Journal, p. 42-43


Elmendorf, W.J., 1920, Lime Point Barite Deposit (Prince of Wales Island); Alaska Territorial Department of Mines Miscellaneous Report MR-119-1, 9 p.

Fowler, H.M., 1948, Lime Point Barite Occurrence (Prince of Wales Island); Alaska Territorial Department of Mines Prospect Evaluation PE-119-21, 4 p.

Glover, A.E., 1954, Tah Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigation MI-121-1, 3 p.


Hodge, E.T., 1944, Southeastern Coastal Alaska Limestone Terrain; Alaska Territorial Department of Mines Miscellaneous Report MR-191-8, 29 p., 2 sheets, scale 1:1,900,800.


Roehm, J.C., 1939, Jack Wilcox Gold Prospect (Nutzwa Property, Nutkwa Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-119-18, 4 p., 2 maps.

Roehm, J.C., 1946, Some High Calcium Limestone Deposits in Southeastern Alaska; Alaska Territorial Department of Mines Pamphlet 6, 20 p.


Williams, J.A., 1955, Carol Anne Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-7, 5 p.
Williams, J.A., 1955, I & L Property (Kendrick Bay); Alaska Territorial Department of Mines Prospect Evaluation PE-121-5, 8 p.

Williams, J.A., 1955, Lazo Property (Moira Sound); Alaska Territorial Department of Mines Prospect Evaluation PE-121-6, 3 p.

Eagle


Fairbanks

Alaska Department of Revenue, 1982, Mine License Application.


Goodnews Bay


Gulkana


Hagemeister Island


Harrison Bay


Healy


Howard Pass


Oyler, H., 1993, Baroid Corp. Houston, Texas; Personal Communication.


Hughes


Icy Bay


Iditarod


Iliamna


Juneau


Kantishna River


Karluk


Payne, T.G., Dana, S., Fischer, W., Gryc, G., Latham, E., Morris, R., Tappan, H., and Yuster, S., 1952, Geology of the Arctic Slope of Alaska; U.S. Geological Survey Oil and Gas Investigations Map 126, 1 sheet, scale 1:1,000,000.


Kenai

Alaska Department of Revenue, 1982, Mine License Application.


Ketchikan

Alaska Department of Revenue, 1982, Mine License Application.


Killik River


Kodiak


Kotzebue

Lake Clark


Lime Hills


Livengood


Mining World, 1951, Alaska--Gold Output at Post-War Peak: Platinum and Tin Placering; Mining World.


McCarthy


McGrath


Medfra


Melozitna


Misheguk Mountain


Mount Fairweather


Shepard, J.G., 1926, Smith Prospect (Willoughby Island); Alaska Territorial Department of Mines Prospect Evaluation PE-111-1, 4 p.


**Mount Hayes**


**Mount Katmai**

Mount McKinley


Mount Michelson


Nabesna


**Naknek**


**Noatak**

Saunders, R.H., 1955, Sours Chromium Prospect (Agashashok River); Alaska Territorial Department of Mines Prospect Evaluation PE-26-1, 4 p.


**Nome**


Nulato


Ophir


Petersburg


Glover, A.E., 1951, Salmon Bay-Red Bay Reconnaissance (Prince of Wales Island); Alaska Territorial Department of Mines Mineral Investigation MI-117-1, 6 p.


**Philip Smith Mountains**


**Port Alexander**


Roehm, J.C., 1938, Children Group (Hungerford Creek); Alaska Territorial Department of Mines Prospect Evaluation PE-116-1, 2 p.


**Port Moller**


**Prince Rupert**


Ruby

**Russian Mission**


**Sagavanirktok**


**Seldovia**

Alaska Department of Revenue, 1982, Mine License Application.


Williams, J.A., 1954, Magnetic Exploration of the Red Mountain Chromite Deposit, Kenai, Peninsula; Prospect or Properties Examined, Alaska Territorial Department of Mines PE 104-3, 22 p.

Seward


Shungnak


Sitka


Gustafson, F.D., 1946, Camel-Gypsum Group (Iyoukeen Cove); Alaska Territorial Department of Mines Miscellaneous Report MR-114-6, 61 p., 3 maps.
Herreid, G.H., 1962, Camel Gypsum Property (Iyouken Cove); Alaska Territorial Department of Mines Prospect Evaluation PE-114-14, 5 p., 1 map.


**Skagway**


Herreid, G.H., 1961, Morey-Quinlan-Tengs Limestone Property (Mile 39, Haines Highway, Klukwan); Alaska Territorial Department of Mines Prospect Evaluation PE-109-4, 6 p., 1 map.


Still, J.C., 1984, Copper, Gold, Platinum, and Palladium Sample Results From the Klukwan Mafic/Ultramafic Complex, Southeast Alaska; Bureau of Mines Open-File Report 21-84, 53 p.


Williams, J.A., 1956, Alibill No. 2 Claim (Alfred C. Wolk Property); Alaska Territorial Department of Mines Prospect Evaluation PE-109-3, 8 p.


Sleetmute


Solomon


Sumdum


Fowler, H.M., 1950, Snettisham Iron Deposit; Alaska Territorial Department of Mines Mineral Investigation MI-115-1, 3 p., 1 map.


Williams, J.A., 1955, BBH Property (Endicott Arm); Alaska Territorial Department of Mines Prospect Evaluation PE-115-7, 7 p., 1 sheet, scale 1:480.

Table Mountain


Talkeetna

Alaska Department of Revenue, 1985, Mine License Application.


Mattson, M.J., 1978, Production Statistics of Cache Creek, Yentna District, Talkeetna Quadrangle; Letter to Thad E. Sandford.


Talkeetna Mountains


Tanacross

Alaska Department of Revenue, 1982, Mine License Application.
Tanana


Teller


Lost River Mining Corporation, Ltd. (Toronto), 1972, Annual Report, 1972; Lost River Mining Corporation Ltd, 15 p.


Tyonek


Unalaska


Valdez


**Wiseman**


**Yakutat**


