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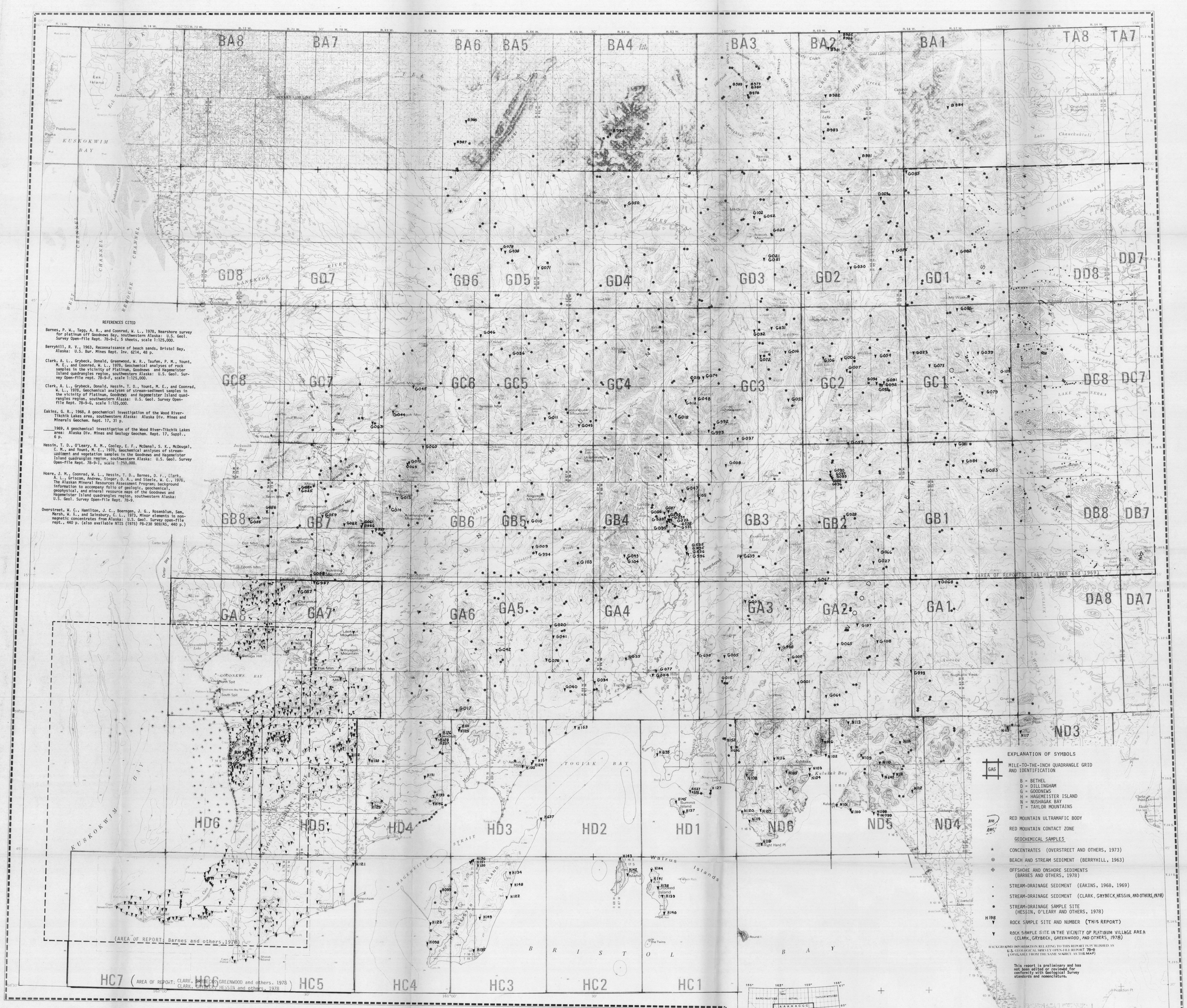
COONRAD AND OTHERS—GEOCHEMICAL ANALYSES OF ROCKS



GEOCHEMICAL ANALYSES OF ROCK SAMPLES IN THE GOODNEWS AND HAGEMEISTER ISLAND QUADRANGLES REGION, SOUTHWESTERN ALASKA

BY

W. L. COONRAD, J. M. HOARE, P. M. TAUFEN, AND T. D. HESSIN

1978

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EXPLANATION OF SYMBOLS

MILE-TO-THE-INCH QUADRANGLE GRID AND IDENTIFICATION

B = BETHEL
D = DILLINGHAM
G = GOODNEWS
H = HAGEMEISTER ISLAND
N = NUSHAGAK BAY
T = TAYLOR MOUNTAINS

RED MOUNTAIN ULTRAMAFIC BODY

RED MOUNTAIN CONTACT ZONE

GEOCHEMICAL SAMPLES

CONCENTRATES (OVERSTREET AND OTHERS, 1973)

BEACH AND STREAM SEDIMENT (BERRYHILL, 1963)

OFFSHORE AND ONSHORE SEDIMENTS (BARNES AND OTHERS, 1978)

STREAM-DRAINAGE SEDIMENT (EAKINS, 1968, 1969)

STREAM-DRAINAGE SEDIMENT (CLARK, GRYBECK, HESSIN, AND OTHERS, 1978)

STREAM-DRAINAGE SAMPLE SITE (HESSIN, O'LEARY AND OTHERS, 1978)

ROCK SAMPLE SITE AND NUMBER (THIS REPORT)

ROCK SAMPLE SITE IN THE VICINITY OF PLATINUM VILLAGE AREA (CLARK, GRYBECK, GREENWOOD, AND OTHERS, 1978)

BACKGROUND INFORMATION RELATING TO THIS REPORT IS PUBLISHED AS U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 78-9 (AVAILABLE FROM THE SAME SOURCE AS THIS MAP)

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

BASE MAP INDEX

Base compiled from U.S. Geological Survey 1:63,360 (A) and 1:250,000 (B) scale topographic series 1952-1957 and advance field compilation material (C) 1976 by Menlo Park Base Map Section

SCALE 1:250 000

CONTOUR INTERVALS 50, 100, AND 200 FEET
DATUM IS MEAN SEA LEVEL

TABLE 1. -- ANALYSES OF ROCK SAMPLES

VALUES PLOTTED ON METALLIC ELEMENT MAPS EQUAL OR EXCEED :

Field No.	Quad.	Map No.	Tag No.	Fe %	Mg %	Ca %	Ti %	Mn	Ag	As	Au	B	Ba	Be	Co	Cr	Cu	Hg	La	Mo	Ni	Pb	Sc	Sr	V	Y	Zn	Zr	Analyst	Comment	ROCK TYPE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

* ANALYTICAL VALUES DETERMINED BY ATOMIC ABSORPTION

1000 UNDERLINED ANALYTICAL VALUES ARE SHOWN ON RESPECTIVE GEOCHEMICAL DISTRIBUTION MAPS

(QUALIFIED VALUES EXPRESSED AS LETTERS)

B NO DATA

L LESS THAN SPECIFIED LIMIT OF DETECTION

N NOT DETECTED

G GREATER THAN VALUE SHOWN

S IN COMMENT COLUMN DESIGNATES SELECTED SAMPLE THAT SHOWED PYRITE OR OTHER SULFIDE MINERALS AND/OR IRON OXIDES (MOST OTHER SAMPLES ARE COMPOSITE GRAB SAMPLES, SOME ARE SINGLE GRAB SAMPLES)

ANALYSES BY:

ATOMIC ABSORPTION	SPECTROGRAPHIC	ANALYSTS
R.M. O'LEARY, J.A. ROYBAL..	E.F. COOLEY	a
J.D. HOFFMAN..............	E.L. MOSIER	b
	E.L. MOSIER	c
	G.W. DAY	d
C.A. CURTIS J.D. HOFFMAN............... J.D. SHARKEY	G.W. DAY	e
	C. HEROPOULOS	f
	S. SUTLEY	g

** INSTRUMENTAL MERCURY-VAPOR DETECTOR ANALYSIS BY R.M. O'LEARY