147°00 63°15 50' (MT. HAYES B-6) 40 146°30 63°15

10' 10'

5 5

(HEALY A-1) (MT HAYES A-5)

63°00 147°00 50' (GULKANA D-6) 40 146°30 63°00

EXPLANATION

Stream Sediment Sample Locality

73 < 250 ppm Cu
25 ≥ 250 ppm Cu

Threshold = 250 ppm
Background = 90 ppm

Rock Chip Sample Locality

1 < 300 ppm Cu
100 ≥ 300 ppm Cu

Threshold = 300 ppm
Background = 40 ppm

Altered Zone

Area of heavy limonitic staining. Generally coincident with highly sheared areas in metavolcanic rocks and metasediments.

Mineralized Locality

X *Site where minor quantities of malachite or chalcocite are present in small veinlets, in vesicles, or on fracture and joint surfaces. Usually associated with fault or shear zones in metavolcanic rocks.*

X_A *Elongate mineralized zone with sporadic occurrences of chalcopyrite, azurite, and malachite. Coincides with faulted contact between metavolcanic rocks and pelitic metasediments. Fault zone mostly covered by talus. Exposed copper occurrences are in highly fractured and altered volcanic rock on southeast side of fault.*

X_B *Locality where cupriferous quartz veins 2 to 6 inches wide occupy minor fault zone. Veins contain chalcocite, pyrrhotite, covellite(?), and malachite.*

Thomas E. Smith, Geologist

1973

Gary L. Kline, Assistant

APPROXIMATE MEAN DECLINATION, 1952 (TRUE NORTH, MAGNETIC NORTH, 29°)

SCALE 1:63360

1 0 1 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1.5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 50 FEET
DASHED LINES REPRESENT 25-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

QUADRANGLE LOCATION (ALASKA)

ROAD CLASSIFICATION

ALL WEATHER ROADS		DRY WEATHER ROADS	
Hard-surface	None	Improved dirt	None
Other		Unimproved dirt	None
		Trails	

GEOCHEMICAL SAMPLE LOCATIONS, MT. HAYES A-6 QUADRANGLE, SOUTH-CENTRAL ALASKA

Plate I