

672691

ANALYTICAL REQUEST SHEET

CAMP NAME & NUMBER CHARLIE

DATE July 8 - July 15 '82

SAMPLE NUMBER SERIES

ELEMENTS REQUESTED

82-NXMD-C-Coordinates

Au, As, Ab

Marble Dome - 1982

During the Dixie Project of 1981 one week was spent mapping and sampling in the Marble Dome area. ~~approx~~ 50 km ENE of Athol B.C. At this time a soil sample line was established along the slope east of the Dome and above treeline. The material sampled was essentially ~~undifferentiated~~ undifferentiated till and of the 8 samples taken in in the 2 km interval between the two east flowing creeks, 6 ~~ran~~ ran 10 ppb Au or greater (see sketch map, J.C.S.). The close spatial relationship between these Au values was encouraging enough to attempt to determine the glacial dispersion direction by establishing a soil sample grid in the area this year. By preparing modified heavy mineral concentrates it is hoped that the results will be contourable yielding a recognizable dispersion pattern.

The soil grid was established west of the 1981 soil line since this is the direction considered to be most likely to be up-ice from the anomalies (see air photo overlay for B.C. 5634-023). Samples were collected every 250 m. on pace and compass lines 500 m apart running

perpendicular to a 060° base line. At each sample location 2 small rock sample bags were filled with till from depths of at least 12" (30 cm.) from pits dug in areas free of excessive organics. The estimated weight of 2 such bags (one initial sample) is 20 lbs. (9 kg.). These were packed back to the creek beside camp where modified heavy mineral concentrates were prepared.

Each sample was wet sifted through a 20 mesh screen producing enough material to fill or almost fill a calibrated Kool-aid can (originally containing 720 g. of Kool-aid). The sifted material was then panned down to approximately 10% of its original volume and this concentrate (about ~~the~~ one-third of a soil bag full) was sent to Chemex Labs, Vancouver, to be pulverized to minus 100 mesh and analyzed for Au, As, and Sb. Since the original anomalies were in the 10 ppb range the results from the modified heavy mineral concentrates should be in the 100 ppb range (provided the Au exists in the till ~~as~~ in a free state and not complexed with organics,

clay particles etc.) and the results should be controllable hopefully showing a glacial dispersion pattern of Au in the tills.

If the Au does not exist as free particles in the till then passing the -20 mesh material will do little or nothing to ~~increase~~ enhance the Au content of the sample. To determine the concentrating effect of the panning, any excess -20 mesh material for any particular sample (ie. any sample yielding more than a Kool-aid can full of -20 mesh material) was collected and sent to Chemex without panning. Panned samples are identified by a 'C' before the grid co-ordinates in the sample number while unpanned samples can be recognized by the letters "CU".

Forty-four samples were collected and 35 processed by a 2 man crew during the 1 week period allotted to the project (the remaining 9 samples will be sifted and panned at base). One person collecting and packing samples could just about keep another person busy sifting and panning at camp as it took between 30 and 45 minutes

to process each sample. If similar projects are undertaken in the future it is recommended that 3 people be present so that 2 can collect samples and possibly do some mapping. As it was fewer samples than hoped for were collected and only a few outcrops were visited which had not been previously mapped (for a description of the geology in the Marble Dome area see the report on the Dixie Project in the 1981 Newex Annual Report).

Alan Pinner, Aug. 1982.

MARBLE
DOME

C235. 10, 10

C236. 10, 10

C237. 20, 9

C238. 10, 41

C239. 10, 10

C242. 20, 7

GRANODIORITE

CHECK OUTCROP
QUARTZITE ?? OR F.G.
INTRUSIVE PHASE?

PROPOSED LINES
AT 500 M INTERVALS

MAIN NORTH FLOWING CREEK

MAIN EAST FLOWING CREEK

MARBLE DOME
104 N/15

PROPOSED SOIL SAMPLE GRID
LINES AT 500 M
SAMPLES AT 250 M

SCALE 1:31,680

JUNE 30/82

JULY 1 1982

MARBLE DOME 104N/15

SEVERAL TILL OR SOIL SAMPLES IN THIS AREA RAN 10 OR 20 PPB AU WHEREAS VERY FEW SIMILAR SAMPLES ON OTHER PARTS OF 1981 DIXIE PROJECT SHOWED ANY GOLD. AS A CHECK ON THE VALIDITY OF THESE VALUES AND AS AN ATTEMPT TO SHOW A DIRECTIONAL PATTERN IT IS PROPOSED THAT RELATIVELY LARGE TILL SAMPLES BE COLLECTED AT 250 METRE INTERVALS ON TAPE + COMPASS LINES 500 METRES APART. NOT ROCK TYPES ALONG LINES + ESPECIALLY AT SAMPLE SITES, NO HUMUS. THE LARGEST PRACTICAL SAMPLE, FREE OF LARGE DEBBLES, SHOULD BE COLLECTED. THESE SAMPLES SHOULD BE OF RELATIVELY UNIFORM SIZE, ~~THE~~ ^{THE} ACTUAL WEIGHT SHOULD BE ESTIMATED IN GRAMS. I THINK MINIMUM SIZE TO BE USEFUL WOULD BE LARGE PAPER TALKS BAG FULL.

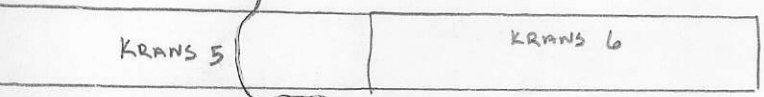
EACH SAMPLE IS TO BE PANNED DOWN TO ABOUT 1/10 OF ITS ORIGINAL SIZE TO RESULT IN A MODIFIED HEAVY MINERAL CONCENTRATE OF ABOUT EQUAL VOLUME FOR EACH SAMPLE. SAME PERSON SHOULD PAN ALL SAMPLES

CHEMEX TO BE ASKED TO WEIGH EACH SAMPLE SUBMITTED, PULVERIZE TO - 100 MESH AND ANALYZE FOR AS AU SB?

PRESUMABLY RESULTS SHOULD BE IN THE 100 PPB RANGE + SHOULD BE CONTOURABLE POSSIBLY GIVING A GLACIAL DISPERSION DIRECTION.



MARBLE DOME
+



WINDOW
AREA

