896650 HIGHMONT

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

ANALYTICAL SERVICES REQUEST

Submitter W. J. McMillan
Number of samples 4
Special instructions
Project
Air photo
Area
Card 1 of 1
Date submitted 5/08/83
Date required
Priority
Date started Nov 05/83
Date reported 11 August 1983
Chief Analyst
PRINT CLEARLY (use dark pen or pencil)

	NTS	FLD	NOZ	NUTM	E	UTM	N	RXTYAG	ST	SPROPERTY	COMMENTS
1	82F	81	27	25	8	11	47	40	00	55	25	50	0	PRPY		41	AYLWIN CREEK QTZ LATITE PORPHYRY-TOURMALINE?
2	82F	81	20	58	7	11	47	40	00	55	25	50	0	BRCA		41	AYLWIN CREEK BRECCIA - WOLLASTONITE?
3	092I	HE1-4		10	64	21	50	55	88	60	0					12	HIGHMONT OPEN PIT MOS2 + ?
4	092I	HE2			10	64	21	50	55	88	65	0				11	GREEN ALTERATION. PLEASE IDENTIFY COMPONENTS

	LAB	NO	OXIDE	SPEC	XRD	MIN	PRP	RPA	Au	Ag	Cu	Pb	Zn	Co	Ni	Mo	Cr	Hg	As	Sb	Ba	Sr
1	27	33	M	C	P	SQ	Q			SEP												
2	27	34	M	C	P	SQ	Q			SEP												
3	27	15	M	C	P	SQ	Q			SEP												
4	27	36	M	C	P	SQ	Q			SEP												
5				C	P	SQ	Q			SEP												
6				C	P	SQ	Q			SEP												

SPECTROGRAPHIC REPORT

1 Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**2** Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**3** Si___ Al___ Mg___ Ca___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Co___ Na___ K___ W___
4 Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**5** Si___ Al___ Mg___ Ca___ Fe___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Ni___ Co___ Na___ K___ W___	**6** Si___ Al___ Mg___ Ca___ Pb___ Cu___ Zn___ Mn___ Ag___ V___ Ti___ Co___ Na___ K___ W___

X–RAY DIFFRACTION REPORT AND COMMENTS

27833M RL-27-258 Whereas most dark green to black material is CHLORITE, a few apparently radiating crystals of TOURMALINE are present.

27834M RL-20-587 The white radiating mineral is SCOLECITE, a zeolite group mineral.

27835M HE-64 Minerals identified from the submitted sample include ANKERITE, QUARTZ, MOLYBDENITE, KAOLINITE and SERICITE.

27836M HE-2 The clayey sample consists mainly of CALCITE and QUARTZ with small amounts of CHLORITE, ILLITE, PLAGIOCLASE ± MONTMORILLONITE ± TALC.

KEY

COLUMNS 28–31

UMFC	ultramafic	GRNS	greenstone	TRCT	trachyte	SKRN	skarn	SNDS	sandstone
ANDS	andesite	MNZN	monzonite	TUFF	tuff	GOUG	gouge	SHLE	shale
BSLT	basalt	OBSD	obsidian	AMPB	amphibolite	ARGL	argillite	SLSN	siltstone
CRBN	carbonatite	PNLT	phonolite	CLCC	calc-silicate	CHRT	chert	MRLZ	mineralization
DCIT	dacite	QZPP	quartz porphyry	GNSS	gneiss	COAL	coal	MVSP	massive sulphide
DORT	diorite	RYLT	rhyolite	MRBL	marble	DLMT	dolomite	DISS	disseminated
GBBR	gabbro	SRPN	serpentinite	PLLT	phyllite	LMSN	limestone	SCKK	stockwork
GRNT	granite	SNKN	shonkinite	SCST	schist	MARL	marl	VEIN	vein
GRDR	granodiorite	SYNT	syenite	HRFL	hornfels	QRTZ	quartzite	ALRZ	alteration

COLUMNS 32 – 33

04	Proterozoic	12	Cambrian	21	Mississippian	34	Jurassic
05	Helikian	14	Ordovician	22	Pennsylvanian	36	Cretaceous
06	Hadrynian	16	Silurian	24	Permian	40	Cenozoic
10	Paleozoic	18	Devonian	30	Mesozoic	42	Tertiary
11	Prot.–Paleozoic	20	Carboniferous	32	Triassic	44	Quaternary
						50	Unknown

COLUMN 34 SAMPLE TYPE

1	Single grab sample
2	Channel/chip
3	Composite sample
4	Drill core
5	Talus or transported
6	Soil
7	Silt
8	Other

COLUMN 35 % SULPHIDE

0	<0.5
1	0.5–1
2	1–10
3	10–50
4	>50

COLUMNS 36 – 43

Mineral Inventory Number or property name

COLUMNS 44 – 80

Comments

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMMISSION SPEC
XR	X–RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC
S	STEEL