BRYAN LEE

1973

896399

Highland Valley

FIELD BOOK

Geochem.

BRYAN LEE

SUMMER 1973 MAY 14/73 - JUNE

HIGHLAND VALLEY GEOCHEM PROJECT

DATE			PAGE
JUNE 5/73	BL-11h-1 to	BL-11h-10	1 to 5
JUNE 12/73	BL-7d-1 to	BL-7d-7	6 to 8
JUNE 15/73	BL-7d-8 to	BL-7d-15	9 to 13
JUNE 18/73	BL-7e-1 to	BL-7e-3	13 to 14

JUNE 5/73

STATION: BL-11h-1

ELEV: 3485 South of Nesbit Lake

- grey-green andesite
- no joints - poor

STATION: BL-11h-2

ELEV: 3430'

- dark grey andesite (Kamloops?)
- v.f.g.
- joints poorly developed

STATION: BL-11h-3

ELEV: 3090' - large o/c NW of Pennyhk.

- Black Basalt
- v.f.g.
- mega joints.

150 / 80 Intensity: ≈ 10'-20'

140 / 80 Intensity: ≈ 20'

060 / 80 Intensity: ≈ 20'

STATION: BL-11h-4

ELEV: 3125'

- S. of Penny Lk. (small o/c)
- grey basalt. (Kamloops vol.)
- no jointing visible
- manganese and iron staining along fractures.
- manganese is dendritic.

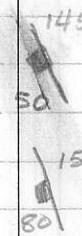
STATION: BL-11h-5

ELEVATION: 3130'

- o/c E. of Penny Lk.
- medium → fine grain Hybrid

qtz	20	
plag	40	
Kspar	8	part could be hematite alteration of plag.
mafics	32	Bi > Hb

- Hb being chloritized
- trace pyrite
- chlorite and epidote on fractures.



Interval: 1'-3'

"

with chlorite + epidote → 060 Intensity ≈ 18"

018
17 Intensity: 1'

STATION: BL - 11h - 6

ELEVATION: 3010'

- small o/c NW of Separating Lk
- Andesite - green-gray
  - Kamloops
  - porraceous
  - v.f.g. matrix
  - f.g. natural glass phenocrysts.
  - Manganese oxide along fractures.

060
Intensity ≈ 6"

flow layering 080
30

STATION: BL-11h-7

ELEV. 2450

- RED ANDESITE (K.V.)
- clay + Manganese alteration
- porosity ≈ 4%
- joints → poorly defined.

STATION: BL-11h-8

ELEV: 2510'

- grey basalt (K.V.)
- clay + manganese alteration

010

70 intensity ≈ 6"

065

68 intensity: ½" - 2"

could be flow layering

STATION: BL-11h-9

ELEV: 2400'

- grey basalt (K.V.
- iron stain on fractures
- no joints

STATION: BL-11h-10

ELEV: 2950'

- Black Basalt - (K.J.)
- o/c west of Separating Lk.
- no jointing.

JUNE 12/73

STATION: BL-7d-1

ELEV: 4100'

- small o/c on Tyner Creek
- Bethlehem? (poikilitic hb)

MAFICS	15%	hb > bi
QTZ	35%	
KSPAR	6%	
PLAG	44%	

STATION: BL-7d-2

ELEV: 4100'

- small o/c south of Tyner Cr Road
- Chataway

MAFICS	25%	hb > bi
QTZ	25%	
KSPAR	10%	
PLAG	40%	

STATION: BL-7d-3

ELEV: 4400'

- large o/c on Tyner Lk Road
- Chataway

MAFICS	15%
QTZ	25%
KSPAR	15%
PLAG	45%

STATION: BL-7d-4

ELEV: 4500'

- small o/c on Tyner Creek Rd.
- Chataway

MAFICS	20%	bi > hb
QTZ	30%	
KSPAR	10%	
PLAG	40%	

- Alteration: chlorite, hematite, clay, epidote

STATION: BL-7d-5

ELEV: 4680'

- small o/c SSE of Farr Lk.
- Chataway

MAFICS	18	bi > hb
QTZ	30	
KSPAR	8	
PLAG	44	

- Alteration: Chlorite,

STATION: BL - 7d - 6

ELEV: 4570'

- Trench + o/c NW of Tam Lt.
- Bethlehem (poik. hb)

MAFICS	15	hb > bi
QTZ	45	
KSPAR	5	
PLAG	35	

- alteration: epidote, chlorite (both in veins as well as altered hb

STATION: BL - 7d - 7

ELEV: 4425'

- o/c in trench on road N of Tynacht
- Chatoway

MAFICS	12	hb > bi
QTZ	35	
KSPAR	8	
PLAG.	45	

- alteration: chlorite + epidote

JUNE 15/73

STATION: BL-7d-8

ELEV: 5210'

- medium size o/c (not plotted on W.J.M.'s map) on upper end of Skukum Creek
- Bethsaida

MAFICS	6
QTZ	35
KSPAR	10
PLAG	49

010 / 72 Intensity: 4'

083 Intensity 1' ~ 4'

STATION: BL-7d-9

ELEV: 5075'

- small o/c on Road. (2-321)
- QTZ-EYE porphy DIKE ROCK

MAFICS	4
QTZ	40
KSPAR	30
PLAG	26

Alteration:

Mal. + Chrysocolla along fracture

STATION: BL-7d-10

ELEV: 5000'

- large o/c in fault valley
- QTZ. EYE "D2 TYPE" DYKE ROCK
- f.g matrix, m. to c.g. qtz

MAFICS	2
QTZ	40
KSPAR	38
PLAG.	20

- alteration: mal

058 / 78 intensity ≈ 1'

130 / 40 intensity ≈ 1'

105 / 76 intensity ≈ 6"

STATION: BL-7d-11

ELEV: 4900'

- fault valley (DYKE SWARM)
- Aphanitic "D7 TYPE" Dyke

MAFICS	3
QTZ	40
KSPAR	38
PLAG	19

- alteration:

STATION: BL-7d-12

ELEV: 4900

- o/c 300' S of BL-7d-11
- BETHSAIDA

MAFICS	10
QTZ	35
KSPAR	10
PLAG	45

STATION: BL-7d-13

ELEV: 4920'

- small o/c
- BETHSAIDA

MAFICS	8	bi > hb
PLAG	40	
QTZ	35	
KSPAR	17	

- trace pyrite

STATION: BL-7d-14

ELEV: 4675'

- BETHSAIDA

MAFICS	6	bi > hb
QTZ	38	
PLAG	46	
KSPAR	10	

- Mal stain on fractures.
- Chlorite alteration of hb.

20
80 intensity ≈ 18"

080 dist. ≈ 4'

038
76 dist ≈ 4'

STATION: BL-7d-15

ELEV: 4675

- "D7 TYPE" DYKE ROCK.
- aphanitic matrix with qtz eyes and f.g. mafics
- Dyke strikes approx due N.
- " is ≈ 3' wide and cuts through station BL-7d-14.

JUNE 18/73

STATION: BL-7e-1

- South of Mystery Lake
- ELEV:
- Qtz eye, plag porphy. dyke Rock
  (Qtz eye D2 : WJM ??)

MAFICS	4%	(bi)
QTZ	35%	
PLAG	45%	
KSPAR	16%	

NOTE: This o/c was in a trench filled with water. Rock is from waste rock at end of trench.

STATION : BL-7e-2

- o/c ≈ 1½ miles S of Miner Cabin.
- Skeena rock type ??

MAFICS	12%
QTZ	35%
KSPAR	10%
PLAG	43%

- slight chlorite alteration.

STATION : BL-7e-3

- large o/c NW of Roscoe Lake.
- rock type probably skeena as qtz eyes and mafics not as large as in Bethsaida type.

MAFICS	12%
QTZ	30%
KSPAR	15%
PLAG	43%

- o/c not on WJM map.