DEREK BROWN

842133

Heather

March 1983

March 18/83

Heather Project

VANCOUVER ISLAND

Weather: sunny and warm
Location: Heather Creek Valley

△ H-B-3-1a: (at end of logging road)

- mgr to fgr ~~gra~~ diorite
- weathers greenish grey
- fresh pale green
- massive but locally foliated (sheared)
- zones of fracturing.
  100/80 SW
- locally brecciated along shears
  - angular frags. of diorite in dioritic matrix
- chloritized mafic mins. to various degrees
- Hb phenocrysts + smaller plag. phenocrysts

- dark green chloritic shear surfaces
- white qtz-fs patches with pegmatic hb crystals ± epidote

- road at 045° from △B-1;

60 m NE OF △B-1:

- pyritic fracture surfaces in diorite
- abundant ch ± ep

110 m NE of △B-1:

- both foliated & porphyritic diorite
  foliated diorite
  275/65 NE 65

△HB3-1:

200 m NE of B-1:

HB3-1 FLOAT *

- blebs of massive pyrite within fgn, dark green diorite
- also disseminated pyrite
- ep alteration
- o/c on logging road
- grab sample, limited exposure

7.5 120/75

△ HB3-2a.

- foliation:

105/70 SW

- pale green, chloritic phyllites ("green tuff")
  - large ch. flakes // to foliation

- some sections are more massive
- minor kinks in foliation

- probable contact with diorite up gully 25 m SW of △HB3-2

- continuous o/c
  - green phyllites become brownish at 7500 m on the weathered surface
    - more foliated
    - more friable & sheety
    - minor qtz pods & lenses // to foliation
    - section ~10 m wide ⊥ to dip

Foliation: 300/85 NE 85

AXP: 125/85 SW

FAX: 302/28 NW

△ HB3-2:

HB3-2

- Fe-carb. altered ch phyllite with white qtz lenses and pods
- weathers - brown & green
- fresh - pale green
- well foliated
- qtz + Fe ~~carb~~ carb. layers
- foliation

120/70 SW

- at 700 m mark, beside a very small creek

650 m:

- brown weathering, Fe-carb altered phyllite
  - friable, dark grey to black fresh surface
  - highly sheared
- rare tight, angular folds
- brown soil associated with o/c

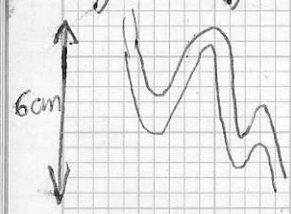
- pale green phyllite just NE of 650 m mark
  - less friable
  - not highly fractured

*13:35 Scott fell so we took him into Duncan for an examination

TRAV SUMMARY

- started in Hb diorite, dominantly massive with local fractured zones and also foliated zones
  - minor pegmatite parts
  **- massive pyrite pod or stringer within diorite
- green phyllitic tuff adjacent to diorite
- highly sheared, Fe-carb altered, brownish phyllite within green tuff section

Tight angular folds:



AXP: 320/85 NE

FAX: 315/20 NW

foliation: 295/55 NE

* fold symmetry suggests antiformal closure to the SW

March 19/83

Weather: sunny and warm
Location: Heather Creek Valley

△ HB3-3a:

- continuing traverse from yesterday and also collecting soil samples every 50m
- tightly folded Fe-carb altered phyllite
- green to dark greenish black fresh surface
- concordant & discordant qtz-Fe-carb layers
- some disharmonic folding
- some sheared fold closures

foliation: 130/75 SW

fault: 140/65 SW

△HB-36:

- green phyllite with minor zones of Fe-carb altered phyllite < 1 m wide ⊥ to foliation

* finely disseminated pyrite + concentrations along slip fractures < 2 mm thick

- hard siliceous, pale green, massive xx within section

- more Fe-carb altered green phyllite 20 m further down road for ~ 40 m

385 m:
- fault gouge zone approx. 2 m wide
  - completely sheared, friable brown weathering phyllite

- green & brown weathering phyllite on both side of fault

S N

bedding: 290/65 N

faint foliation: 295/85

* foliation bedding intersection suggests an antiformal closure to the south

AJH

△ HB3-3c:
(350 m mark)
- well bedded pale green cherty tuff
- faintly foliated

- fgn to aphanitic
- beds vary in thickness
  - a few mm, up to 1 m
- some beds with angular cherty frags up to 3 cm long

- north of cherty tuff is a well phgn foliated tuff with white feldspar (?) crystals < 1 mm in dia
  - "spotted green phyllite"

~~△ HB3-3d:~~
~~(300 m mark)~~

fault: S

fault plane: 225/55 SW

225 SW

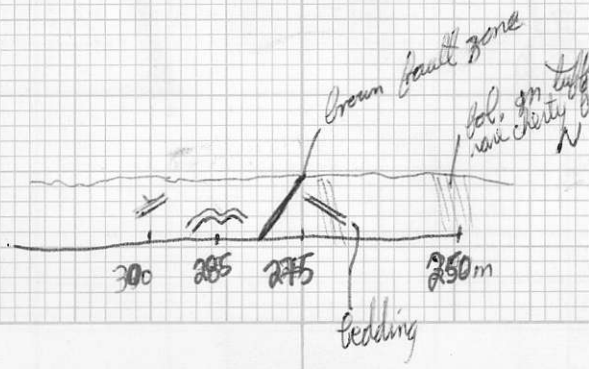
approx FAX: 320/20 NW

bedding:

300: 225/25
285: 245/40
275 m: 285/40 NW

foliation:

300 m:
275 m: 295/85
250 m: 290/75 N



△ HB3-3d:
(300 m mark)

- yellowish brown weathering clay fault gouge ~ 4 cm wide
  - brown staining extents 10 cm on each side
  - rocks are highly fractured adjacent to clay gouge

- fault cut well bedded, pale green cherty tuffs

- fractures in fault zones may indicate normal movement if they are extensional fractures

excellent bedding: 255/55 NW

150 m mark:

- very well bedded pale green cherty tuff
- beds up to 10 cm thick
- aphanitic
- finely laminated
- unfoliated due to composition
poorly

TRAV SUMMARY

foliation: 130/60 SW

March 20/83

Location: Heather Creek Valley, north side
Weather: sunny

△ HB3-4a:

- at 0+50m from HB3-24 (starting point of traverse)

- maroon and green weathering %
- moderately foliated
- sheared mafic mins. altered to ch + ep
- abundant ep crystals
- minor section of pitted lenses ~2mm long, weathered out carbonate
- both dark green & maroon fragments ~1 to 3mm long
  - usually lensoidal to platy
- hematite common
- variably foliated, some almost massive
- some frags. up to 15cm long
  - subangular

foliation: 135/75 SW

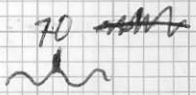
bedding // to local foliation:

150/75 SW

- some bedding - foliation intersections suggest an antiformal closure to the northeast

fault plane:

270/70 N



1+00 m:

- pale green, crystal lithic tuff
  - frgs. lapilli & coarse tuffs
  - chlorite
  - minor pitted carbonate
  - moderately foliated, some massive frags.

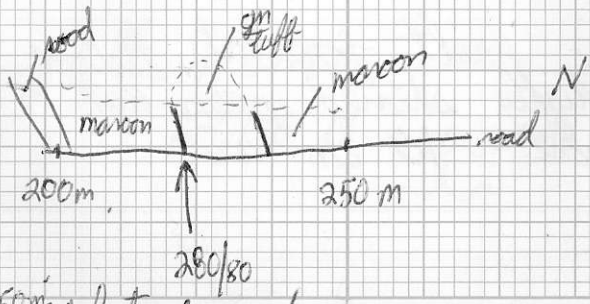
- hl (?) angular crystal frags.
- lithic frags - Px or Hb phenocrysts in pale green, aphanitic groundmass

- narrow fault zone at 1+15 m
  - highly sheared green tuff
  - zone ~ 10 cm wide

foliation: 130/70 SW

foliation: 130/75 SW

bedding (?): 280/80 NE



at 2+50m. foliation: 115/75°

1+50m:

- pale green, chloritic tuff
- moderately foliated

1+85m:

- c/c of maroon & green phyllitic tuff

2+00 m:

- at "Y" of logging road
- maroon & green tuff

2+20m:

- contact between maroon tuff & green tuff, foliation // to contact

2+50m:

- foliation is locally folded in tight, subangular folds
- steeply plunging

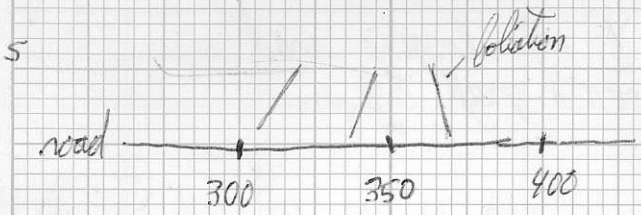
AXP: 175/70 SW

*of a kink

FAX: 190/65 SW

foliation: 125/90

foliation: 305/80 NE



* foliation changes dip around 3+50 m

3+00 m:

- foliated green tuff with minor maroon layers

3+50 m: - maroon & green tuff.
- frags up to 5cm long

3+65:
- 2 to 4 cm long green, angular frags.
- green phyllitic tuff

4+00 m:
- maroon & green phyllitic tuff
- white qtz-carbonate stringers dominantly // to foliation

foliation: 315/85 NE 85

foliation: 310/85 NE 85

foliation: 310/85-90 NE 85

dyke attitude: 030/70 SE

dark green

ep-rich

4+50 m:

- coarse lapilli tuff
  weakly phyllitic
  - deformed frags → lenticular
  - pale green

5+50 m:

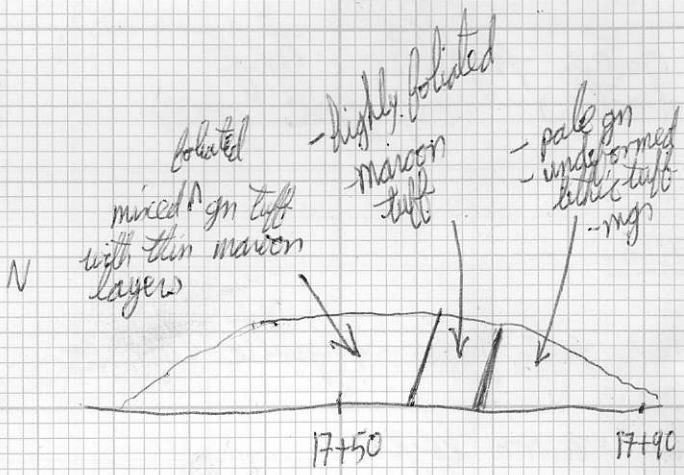
- green phyllitic tuff
- weathers - very pale green

6+70 m:

- more pale green phyllitic tuff
- fgp
- thin maroon layers

7+50 m:
- country rock = deformed vol. lx, flattened frags, green, foliated
- dark green & pale green dyke, 30 cm wide
- sharp contact with tuff
- disseminated py + py in fractures
- fgp

foliation: 140/85 SW



foliation:

305/75 NE

11+00 m:

- green volc. bx ("lahar")
- ~10-15% white carbonate between clasts
- clasts are moderately flattened ⊥ to the foliation
- reddish brown hematitic layers around some clasts
- clasts are subangular
  - up to 30 cm long
- similar composition

17+50 m:

- at the end of the logging road
- green & maroon weathering foliated tuff
  - clasts up to 6 cm long
- highly ~~[illegible]~~ clasts flattened

foliation:

140/85 SW

85

13+30 m:

- relatively massive green vole. bsc
- weathers - green to dark green
- fgn to cobble size clasts

*Now further up north ~~just~~ 35 m above a "Y" in the road
- set HSB3-56 as 0+00 m

0+00 m:
- green fgn to cgn, phyllitic tuff
- faintly developed foliation

Foliation: 330/60 NE

60

March 21/83

Location: Heather Creek, north end

Weather: cloudy & cool,
rain in late PM

△ HB3-5a:

- at △ HSB3-58, 1+00 m mark

- green volc. bx
  - clasts up to 15 cm long, av. 4 cm long
  - thin maroon layers & lenses < 5 mm wide
  - clasts surrounded by dark green chlorite

- more phyllitic fgn beds also present

dyke attitude: 330/55 NE

55

Schistosi

△ HB3-5b:

- at △HSB3-59

- dark grey hb-(? or px) diorite dykes (?) 5-10 cm thick cutting green volc. bx.

- dykes - fgr to mgr
  - massive to moderately foliated
  - sharp contacts

- vol. bx - ~~dark~~ green
  - dominantly Hb diorite clasts
  - abundant ep
  - clasts size variable up to 20 cm

- maroon section with white carbonate between clasts, it ~~po~~ weathers out
  - clasts are relatively unstrained compared to more phyllitic sections
- relatively massive section

qtz-carb veins

115/90

△HB3-5c:
- at HSB3-63
- thin (< 3cm wide) white qtz-carbonate veins cutting cobble-size vol. lx.

- ~~veins~~ host rx is <u>not</u> altered adjacent to veins

- vol. lx - green
  - ch rich
  - polymictic - hb porphyry
    - gst
  - clasts are partially chloritized & epidotized
  - matrix supported
  - matrix is dark green
    ⇒ more ch

- essentially massive to faintly foliated vol. lx from 5b to 5c

- 40 m past landslide, △HSB3-64

- green vol. lx with maroon coloured fractures & sections
- relatively massive

- qtz-Fe-carb-altered zone on the road below the landslide, <1 m wide, sheared & fractured

- alternating laminations of maroon material with green lapilli tuff
  - irregular wavy layers, either flow-banding or a shear fabric
  - truncated layers & lenses
- dominantly maroon coloured ⅋

△HSB3-69:

- euhedral pyrite crystals up to 8 mm long in a green siliceous ⅋

foliation. 325/75 NE

foliation. 305/85 NE

- weakly foliated
- rusty brown spots from weathered pyrite crystals
- could be a felsic, deformed tuff or andesitic composition

at 13+00 m:

- green chloritic schists with rare white qtz-carbonate veins < 2 cm thick
- no frags. evident
- fgr
- o/c ~ 30 m long to 13+30 m

12+50 m to 12+75 m:

- green o/c of volc. ss.
- faintly foliated
- clasts up to 6 cm long

foliation: 315/85 NE

crude bedding(?): 260/40 NW 40

bedding(?): 300/40 NE 40

11+75 m:

- green, pyllitic lapilli tuff
- abundant white carbonate "eyes" < 3 mm long
- lithic & crystal frags.

- rare maroon lenses & layers

12+00 m to 10+50 m:

- green cliff face
- vol. bx - ~~offe~~ commonly pitted due to weathered out carbonate
  - clasts angular
    - up to 50 cm
    - polymictic volcanics
  - faintly to well foliated

9+00 m:

- green lapilli tuff
- vol. bx & volcanic derived cgl
- some sections are pitted on the weathered surface

△ HB3-6:

0+00 to 1+00 m * new starting pt. at Y in logging road

- green with some maroon vol. lx. & tuff
- local shear zones

- qtz veins + brown weathering + highly fractured at 0+00 m in the creek

△ HB3-6: at 5+40 m

HB3-6 qtz vein
- white
- sampled across 60 cm
- layered

foliation: 310/65 NE

HB3-7

- hot sx
- chip sample across 1m ⊥ from vein to the NW
- limonitic, fgr, spotted, tuff

HB3-8

- hot sx
- chip sample ⊥ to vein to SE, across 1m
- same as HB3-7

10+00 m:

- fresh - green
- weathers - pale green
- massive & foliated gst & fgr tuffs

Solution:

Solution: 305/65 NE

10+50 m:

- limonitic altered rhyolite + siliceous, fgr tuff
- weathers - rusty brown
- fresh - light grey

HB3-9 rhyolite (+ silicified tuffs?)

12+50 m:

- ~~rhyolite (HB3-10) lapilli tuff~~
- tuff - green
  - foliated
  - polymictic

14+00 m:

- green lapilli + larger tuff with some maroon zones
- weakly foliated

vein attitude:
~ 310/40

13+50 m:

- lapilli tuff
  - rough weathering
  - some larger frags.
  - pale green

0+25:

- beside creek
- brownish, sheared tuffs with qtz veins

HB3-10
  - qtz veins in green tuff
  - minor ep + ch in qtz
  - some Fe-carb
  - white qtz

- veins vary from 1cm to 6cm wide

diorite at junction → 9+20m
8+00m
7+00m

March 24/83

HSB3-211	182	bn	silty	10cm	low B
-212	208	bn	silty	14cm	low B
-213	230	bn	silty	10cm	low B

	6+00
8+00 gravel No sample	7+00
9+00 at junction →	9+00
	1+00
	2+00
	3+00
	* 4+10
	* 5+50
at junction →	6+50
	1+00

	0+00
	1+00
	2+00
log slide →	3+00
	* 4+15
	5+00
	6+00
	* 7+10
9+35 diorite	* 8+50
	9+50

* qtz-py vein at 8+50 in diorite

STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR.
HSB3 -191	348	bn	silty/sandy	4 cm	low	B
-192	352	grey-bn	sandy	6 cm	low	B/C
-193	398	red bn	silty	12 cm	low	B
-194	340	red bn	silty	4 cm	low	B
-195	342	bn	silty/sandy	8 cm	low	B
-196	355	bn	sandy	6 cm	low	B
-197	376	bn	sandy	4 cm	low	Ell
-198	383	bn	sandy	8 cm	low	B
-199	398	bn	silty	12 cm	low	B
-200	403	grey	silty/sandy	10 cm	low	B
NE side of Hooper Creek:						
201	276	red bn	silty	4 cm	low	B
202	298	bn	sandy	8 cm	low	B
203	314	red bn	silty	6 cm	low	B
204	328	bn	sandy	4 cm	low	sand
205	350	bn	sandy	2 cm	low	sand
206	372	bn	silty	12 cm	low	B
207	382	bn	sandy	5 cm	low	B/C
208	400	red bn	silty	4 cm	low	B
209	427	red bn	silty	4 cm	low	B
210	448	bn	sandy	2-4 cm	low	Fo

	4+50
	5+00
	* 5+65
	6+00
	* 6+70
	7+00
	7+50
(road ≈ ΔHSB3-161 at 860m)	8+00
end of old road →	0+00 m
	0+50
	1+00
	1+50
	2+00
at road junction →	2+50

	0+00
	1+00
	2+00
on corner (white qtz vein) →	* 3+15
	4+00
	* 5+20

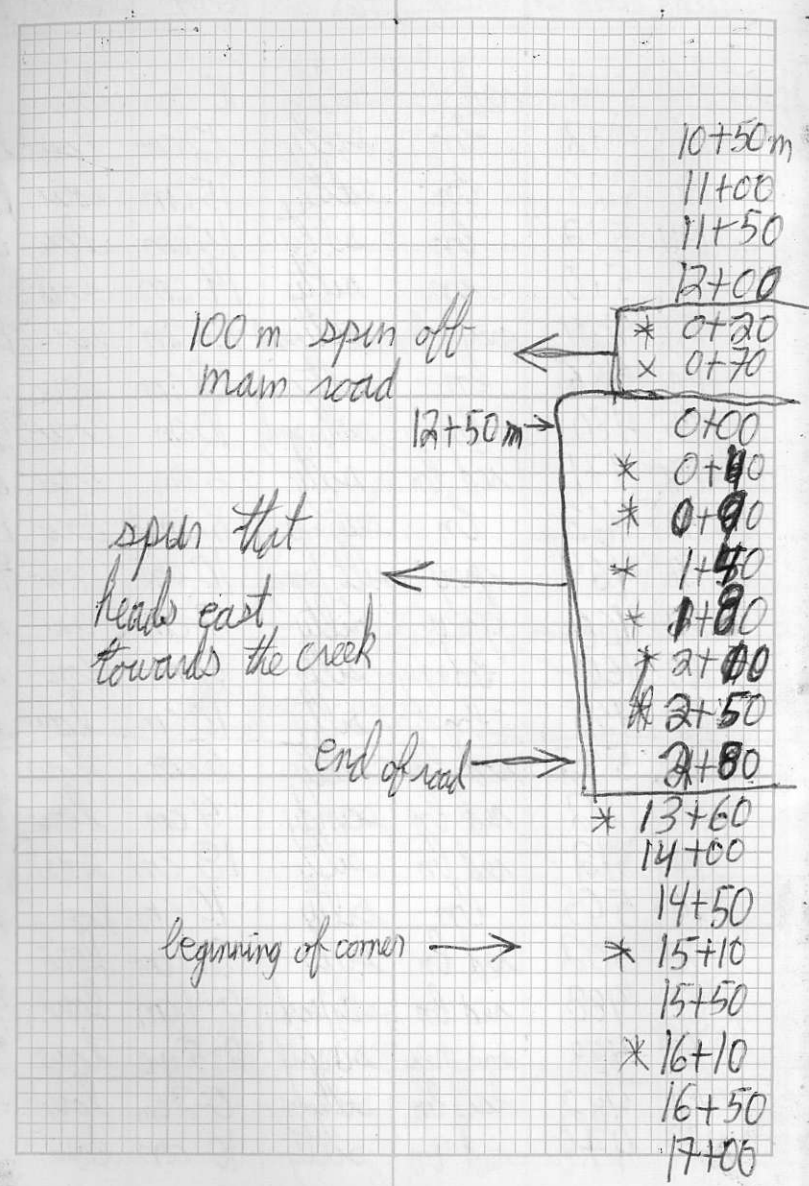
HSB3-171	478	red bn	silty	15 cm	low	B
-172	472	red bn	silty	6 cm	low	B
-173	470	red bn	silty	20 cm	low	B
-174	470	red bn	silty	14 cm	low	B
-175	468	red bn	silty	0-6 cm	low	B/C
-176	460	red bn	silty	5 cm	low	B
-177	458	red bn	silty	12 cm	low	B
-178	453	red bn	silty	10 cm	low	B
-179	361	bn	silty	15 cm	low	B
-180	360	red bn	silty	20 cm	low	B
-181	357	bn	silty	15 cm	low	B
-182	347	red bn	silty	10 cm	low	B
-183	342	bn	silty	15 cm	low	B
-184	339	bn	silty	10 cm	low	B

E of main road (NW corner of claims): March 23/83

-185	375	bn	silty	12 cm	low	B
-186	378	bn	silty	10 cm	low	B
-187	372	bn	silty	6 cm	low	B
-188	362	bn	sandy	5 cm	low	B
-189	365	bn	sandy	8 cm	low	B
-190	356	bn	sandy	5 cm	low	B

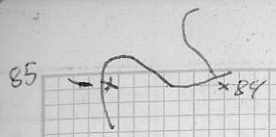
	17+50
cliff →	
	18+50
	19+00
	19+50
	20+00
	* 20+60
creek →	
	* 21+30
	* 22+00
	22+50
	23+50
creek →	
	24+00
* part of a landslide →	24+50
	25+00
~~the~~ gravel slope →	26+30
* at end of north spur	0+00
	0+50
	* 1+10
	1+50
	2+00
	* 2+60
	3+00
* soil (silt) that settled in a puddle in the road — cliff face →	3+50
	4+00

STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR.
HSB3-148	542	red bn	silty	10 cm	low	B
-149	532	bn	silty	12 cm	low	B
-150	525	bn	silty	15 cm	low	B
-151	512	bn	silty	15 cm	low	B
-152	510	bn	silty	14 cm	low	B
-153	504	grey & bn	silty sand	10 cm	low	B
-154	486	bn	silty	12 cm	low	B
-155	480	bn	silty & sandy	10 cm	low	B
-156	471	red bn	silty	6 cm	low	B
-157	463	bn	silty & sandy	8 cm	low	B
-158	464	grey	silty/sandy	10 cm	low	B/gravel
-159	460	grey	silty	7 cm	low	B/sandy
-160	460	bn & grey	silty	8 cm	low	B
-161	455	bn	silty	10 cm	low	B
-162	532	red bn	silty	6 cm	low	B
-163	522	red bn	sandy	4 cm	low	B/C
-164	512	red bn	silty	18 cm	low	B
-165	505	bn	silty	10 cm	low	B
-166	502	red bn	silty	20 cm	low	B
-167	488	red bn	silty/sandy	0-4 cm	low	B/C
-168	488	bn & grey	sandy	2-5 cm	low	C sandy
-169	482	dark bn	silty	0-2 cm	low	—
-170	478	red bn	silty	10 cm	low	B



STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR
HSB3-126	656	red bn	silty	8 cm	low	B
-127	652	bn	silty	12 cm	low	B
-128	647	yellow-bn	silty	15 cm	low	B
-129	635	yelow-bn	silty	10 cm	low	B
-130	629	red bn	silty	15 cm	low	B
-131	635	red bn	silty	10 cm	low	B
-132	620	red bn	silty	14 cm	low	B
-133	618	bn	silty	10 cm	low	B
-134	616	bn	silty	12 cm	low	B
-135	626	red bn	silty	10 cm	low	B
-136	622	red bn	silty	15 cm	low	B
-137	622	grey	silty	12 cm	low	B
-138	632	grey	silty	6 cm	low	B
-139	638	red bn	silty	8 cm	low	B
-140	600	red bn	silty	10 cm	low	B
-141	590	red bn	silty	10 cm	low	B
-142	586	red bn	silty	15 cm	low	B
-143	570	red bn	silty	10 cm	low	B
-144	562	red bn	silty	5 cm	low	B/C
-145	559	red bn	silty	8 cm	low	B
-146	553	red bn	silty	15 cm	low	B
-147	548	bn	silty	15 cm	low	B

		STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR
*	4+05	HSB3-106	650	bn	sandy	6 cm	low	B
	3+50	-107	643	red bn	silty	8 cm	low	B
	3+00	-108	634	red bn	silty	12 cm	low	B
		March	22					
	0+00	HSB3-109	732	red bn	silty	6 cm	low	B
	0+50	-110	735	bn	silty	8 cm	low	B
cliff → *	1+10	-111	730	bn	silty	8 cm	low	B
	2+00	-112	730	bn	silty	15 cm	low	B
	2+50	-113	730	bn	silty	10 cm	low	B
cliff → *	3+10	-114	730	red bn	silty	5 cm	low	B
	4+35	-115	725	bn	sandy	2-4 cm	low	sand
	5+00	-116	730	bn	silty	8 cm	low	B
Y in road →	5+50	-117	724	bn	silty	10 cm	low	B
*	6+10	-118	720	red bn	silty	10 cm	low	B
cliff → *	6+70	-119	699	bn	sandy	0-5 cm	low	sand
*	7+50	-120	690	red bn	silty	12 cm	low	B
*	8+10	-121	682	bn	silty	15 cm	low	B
	8+50	-122	688 (?)	dark bn	silty	12 cm	low	B
beside creek → *	9+10	-123	680	red bn	silty	15 cm	low	B
	9+50	-124	678	bn	silty	14 cm	low	B
	10+00	-125	668	yellow bn	silty	12 cm	low	B



3+50
4+00
4+50
5+00
* 6+15
6+50
7+00
* 7+60
8+00
8+50
9+30
10+00
* 10+60
11+00
11+50
12+00
12+50
13+00
13+50
14+00
End of logging road → 14+50

STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HORIZ
HSB3-85	812	red bn	silty	10 cm	low	B
-86	818	grey	silty clay	15 cm	low	B
-87	829	bn	silty	8 cm	low	A/B
-88	836	bn	sandy	4-8 cm	low	B/A
-89	850	red bn	silty	15 cm	low	B
-90	850	red bn	silty	10 cm	low	B
-91	849	red bn	silty	8 cm	low	B
-92	852	bn	silty	12 cm	med	A/B
-93	854	dark bn	silty	10 cm	med	A/B
-94	852	grey	silty	5 cm	low	B
-95	850	red bn	silty	5 cm	low	B
-96	855	bn	silty	6 cm	low	A/B
-97	852	brick red	sandy silt	10 cm	low	B
-98	850	red bn	silty	10 cm	low	B
-99	848	yellow bn	silty	14 cm	low	B
-100	850	yellow bn	silty	8 cm	low	B
-101	845	bn	silty	10 cm	low	B
-102	847	red bn	silty	10 cm	low	B
-103	849	bn	sandy silt	5 cm	low	B
-104	848	bn	silty	8 cm	low	B
-105	852	bn	silty	7 cm	low	B

N.S. landslide

(6+00 m = middle of corner, all gravel)

* continuing from March 20 →

glacial till →

(N.S. 11+00 cliff face) →

on right-hand corner →

SNOW ON ROAD

end of road (lake to the NW) →

* reset topo at Y of logging roads →

4+00	
4+60 m	
5+00	
5+50	
6+50	
7+00	
7+50	
8+00	
8+50	
* 9+70 m	
10+00	
10+50	
11+50	
12+00	
12+50	
13+00	
* 13+60	
* 0+60	
1+00	
1+50	
* 2+40	
3+00	

STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR.
HSB3-64	650	dark bn	silty	18 cm	med	A/B
-65	658	bn	silty	15 cm	low	B
-66	664	red bn	silty	15 cm	low	B
-67	682	bn	silty	10 cm	low	B
March 21						
HSB3-68	704	red bn	silty	10 cm	low	B
-69	708	red bn	silty	15 cm	low	B
-70	715	bn	silty	8 cm	low	B
-71	730	red bn	silty	6 cm	low	B
-72	753	red bn	silty	20 cm	low	B
73	760	red bn	silty	10 cm	low	B
74	776	bn	silty	15 cm	low	B
75	795	bn	silty sand	0-4 cm	—	B/cliff face
76	799	bn	silty sandy	10 cm	low	B
77	800	bn	silty	10 cm	low	B
78	800	bn	silty	5 cm	low	B
79	815	grey bn	silty	2-4 cm	low	A/B
80	768	red bn	silty	0-5 cm	low	B
81	772	bn	silty sand	8 cm	low	B
82	778	red bn	silty	6 cm	low	B
83	785	bn	silty	10 cm	low	B
84	804	red bn	silty	5 cm	low	B

10+00 N.S. → * 9+70 m
* 10+50 m
N.S. → 11+00 m
12+00
12+50
* 13+30
* 14+00
14+50
15+00
15+50
16+00
16+50
17+00
17+50
end of logging road → * 17+90

claim post:
Lucia 5 #52782
4S
3W

- on different road 35 m north of "Y" →
0+00
0+50
1+00
at another "Y" → * 1+65
2+00
2+50
3+00
3+50

	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR.
HSB3-41	556 m	bn	silty	10 cm	low	B
-42	558 m	bn	silty	15 cm	low	B
-43	560	bn	silty	18 cm	low	B
-44	583	light bn	silty	15 cm	low	B
-45	595 m	bn	silty	10 cm	low	B
-46	595 m	bn	silty	0-5 cm	low	B
-47	596 m	grey	sandy	0-4 cm	—	sand
-48	598 m	red bn	silty	0-5 cm	low	B
-49	596 m	red bn	silty	2-4 cm	low	B
-50	595 m	bn	silty	6 cm	low	B
-51	599 m	red bn	silty	15 cm	low	B
-52	599 m	bn	silty	14 cm	low	B
-53	602	red bn	silty	6 cm	low	B
-54	599	bn	silty	5 cm	low	B
-55	597	bn	silty	10 cm	low	B
-56	578	bn	silty	10 cm	low	B
-57	595	bn	silty	20 cm	low	B
-58	597	yellow bn	silty	15 cm	low	B
-59	605	bn	silty	10 cm	low	B
-60	609	bn	silty	6 cm	low	B
-61	618	red bn	silty	20 cm	low	B
-62	623	red bn	silty	14 cm	low	B
-63	634	bn	silty	16 cm	low	B

	STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HOR.
	HSB3-22	316 m	red bn	sandy silt	10 cm	low	B/C
	-23	308 m	bn	sandy	10 cm	low	B/C
	March 20						
0+00	HSB3-24	421 m	bn	sandy	14 cm	low	B
	-25	432 m	bn	silty	5-10 cm	low	B
1+00	-26	445 m	bn	sandy silt	15 cm	low	B
	-27	450	bn	sandy	12 cm	low	B
1+90	-28	458	bn	silty	15 cm	low	B
2+50	-29	468	bn	silty	10 cm	low	B
3+00	-30	471	bn	silty	12 cm	low	B
	-31	475	dark bn	silty	12 cm	med	A/C
400	-32	482	bn	silty	0-4 cm	low	B
* 4+70	-33	488	bn	silty	2-6 cm	low	B
* 5+10	-34	495	bn	silty	8 cm	low	B
5+50	-35	503	bn	silty	12 cm	low	B
6+00	-36	509	bn	silty	5-20 cm	low	B
6+50	-37	515	bn	sandy	8 cm	low	C gravel
creek at 7+00 m * 7+50	-38	528	dark bn	sandy	6 cm	low	gravel
8+50 no sample → 8+00	-39	529	dark bn	sandy silt	10 cm	low	B/C
* 9+00	-40	538	bn	sandy silt	10 cm	low	B

HEATHER SOILS

STATION	ELEVATION	COLOUR	TEXTURE	DEPTH	ORGANICS	HORIZON
HSB3-1	330 m	brown	silty	20 cm	low	B
-2	330 m	brown	sandy silt	12 cm	low	B
-3	338 m	dark bn	sandy	20 cm	med.	B/C
1000 -4	342 m	brown	silty	10 cm	low	B
-5	347 m	dark bn	sandy silt	15 cm	med.	B/C
-6	352 m	brown	sandy silt	10 cm	low	B
-7	348	bn	silty	12 cm	low	B
-8	352	bn	silty	12 cm	low	B
-9	350	dark bn	silty	4 cm	med/high	A/C
700 -10	350	bn	silty	12 cm	low	B
* above bn altered tuff -11	344	reddish bn	silt	0-10 cm	low	B
-12	332	red-bn	silty	20 cm	low	B
-13	337	red-bn	silty clay	20 cm	low	B
-14	339	bn	silty	12 cm	low	B
-15	342	bn	sandy silt	25 cm	low	B
-16	348	bn	silty	20 cm	low	B
-17	335	bn	clay + silt	20 cm	med	A/B
300 -18	327	bn	silty	15 cm	low	B
-19	332(?)	bn	silty	15 cm	low	B
-20	330	bn	silty or clay	10 cm	med	B
-21	317	bn	silty	15 cm	low	B

Soils

- station
- elevation
- texture - sand, silt, clay + %
- colour
- depth
-

M504:

- check topo machines