Province of British Columbia
Ministry of the Environment
WATER INVESTIGATIONS BRANCH

MEMORANDUM

A. P. Kohut
Senior Geological Engineer
Groundwater Section

Date: May 4, 1979

File: 92-J-2

Re: Resort Municipality of Whistler -
Preliminary Groundwater Potential Study.

In a memorandum dated March 2, 1979 to Mr. P. M. Brady, Director of the Water Investigations Branch, Mr. J. Simpson, Chief of the Community Water Supply Division on behalf of Mr. H.D. DeBeck, Comptroller of Water Rights, has requested that a report be prepared on the suitability, adequacy and reliability of existing and potential groundwater sources in the Whistler area. In reply to this request, Mr. Brady sent a memorandum dated March 20, 1979 to Mr. DeBeck, advising him that the Groundwater Section is prepared to carry out an investigation of the groundwater potential in the Whistler area, as required.

As a first step in this investigation the following report comprising an office review of all the groundwater data presently available in the area was prepared. The review includes a study of aerial photographs, geologic maps, soil map, water well records, and previous groundwater reports.

Previous Groundwater Investigations

1) Le Breton (1974)

At the request of Mr. K. Smyth, Senior Hydraulic Engineer, Water Investigations Branch, Mr. E.G. Le Breton, Senior Geological Engineer, Groundwater Section, conducted an office study of the groundwater prospects in the Whistler Mountain area in 1974. His report was based upon a study of all the available groundwater information at that time. A summary of pertinent points from his report includes:

a) The available well data denotes the presence of two aquifers; a confined sand and gravel aquifer between about 40 and 70 feet below ground surface; and a water table sand and gravel aquifer between ground surface and about 30 feet.

b) There are good prospects in obtaining groundwater supplies from wells penetrating the surficial deposits.

c) From an analysis of pumping test data, well yields of 300 USgpm are a distinct possibility within the Fitzsimmons Creek Valley. Similar well yields are possible in the Alta Creek Valley.

d) Test drilling and pumping tests will be required to further evaluate the groundwater resources of the area.

. . . . /2

APK 8 May 79

2) Livingston (1978)

In 1978 Mr. Livingston of E. Livingston Associates was involved in a drilling and testing program to prove the groundwater potential at the proposed new Whistler Town Center. The following is a summary of pertinent information taken from his report:

a) Drilling conditions vary in the fan deposit. The first test hole (Z13-X16-Y28 No. 1) drilled on the Fitzsimmons Creek fan reached bedrock at 72 feet without encountering an aquifer, while the second test hole (Z13-X16-Y33 No. 5) drilled about 450 feet further north was completed in an aquifer from 48 to 92 feet.

b) The pumping test results indicate the aquifer has a high transmissivity, in the order of 10^5 USgpd per foot of aquifer width.

c) The specific capacity of the well (Z13-X16-Y33 No. 5, Fig.1) after 10 hours of continuous pumping at 433 USgpm was 16.4 USgpm/ft. of drawdown.

d) A partial water analysis indicates that the water quality is excellent.

e) The aquifer is overlain by a considerable thickness of relatively impermeable material and chlorination of the groundwater is not required.

f) The possibility of constructing another production well a short distance to the north is very good.

Well Log Summary

Figure 1 shows the location of drilled wells and test holes within the Municipality area. A summary of the logs and pertinent information regarding each well is found in Appendix A.

Bedrock Geology

Figure 2 shows the generalized geology of the Whistler area which has been adapted from the geology of the Pemberton (92J) map area, compiled by G.J. Woodsworth (1977) of the Geological Survey of Canada. According to Woodsworth, the area is underlain by sedimentary and volcanic rocks with an unknown thickness of unconsolidated alluvial, fluvial and glacial deposits blanketing the main Alta Lake-Green Lake Valley.

Surficial Geology

Figure 3 has been prepared from a study of aerial photographs in conjunction with a review of the soil map of the Alta Lake area and a limited amount of well log data. On the basis of this information, it appears that there are essentially three types of surficial deposits in the area, namely: alluvial fan deposits; alluvial and fluvial deposits; and glacial outwash.

. . . . /3

The alluvial fan deposits are post-glacial and consist of well sorted sand and gravel, with some boulders.

The alluvial and fluvial deposits laid down in the valley floor by present day streams consist of well sorted fine to coarse sand with a minor amount of silt.

The glacial outwash deposit of limited extent consists of well sorted coarse sand and gravel.

In most areas the above-mentioned deposits mantle glacial till and glaciolacustrine deposits at depth. From well log data, the thickness of the surficial deposits is known to be up to 100 feet thick in some areas.

Figures 4, 5 and 6, prepared from drillers logs, show five hydrogeologic cross-sections. The interpretations of the subsurface geology shown on the cross-sections indicate that the surficial geology in the area is complex. Some of the complexity is probably due in part to variability in drillers' descriptions of materials encountered. Further test drilling would be required to make more accurate interpretations of the subsurface geology.

Groundwater Potential

Based on the surficial geology and well logs, the areas of potential groundwater supplies within the Alta Lake-Green Lake Valley have been outlined in Figure 7 and subdivided into groundwater zones for analysis.

Zone 1: This zone is underlain by alluvial sands and gravels. From a driller's log of a well drilled in this fan deposit, the thickness of the deposit appears to be less than 50 feet. The groundwater potential of this permeable sand and gravel deposit is probably good, but limited by the extent of the fan.

Zone 2: This zone is underlain by alluvial fan and permeable fluvial sand and gravel deposits. Several wells have been drilled in the Fitzsimmons Creek Valley penetrating the sand and gravel aquifer at less than 100 feet depth. The groundwater potential in this zone is excellent, with some wells reported to have yields of 300 USgpm. The water quality has been found to be very good.

Zone 3: This zone is underlain mainly by glacial outwash. The prospects of obtaining a high yielding groundwater supply in this zone is probably good. However, further subsurface data (i.e., depth to the water table, thickness of surficial material, and depth to bedrock) would be required to substantiate this.

Zone 4: The surficial deposits underlying this zone is a mixture of alluvial and fluvial, glaciolacustrine and possibly till deposits. One well (Z13-X16-Y32, No. 1) has encountered a sand and gravel aquifer between 40 to 70 feet below the ground, which is reported to yield 400 USgpm. The groundwater potential in this zone appears to be very good.

. . . . /4

Zone 5: There is a general lack of subsurface data in this zone and hence the groundwater potential is presently unproven. However, there may be a good possibility that the aquifer encountered in zone 4 continues into zone 5. Further test drilling and pumping tests are needed to determine this.

Zone 6: This zone is primarily underlain by alluvial fan deposits, and is similar to zone 1. The groundwater potential appears to be very good, but probably limited by the extent of the fan.

Zone 7: Alluvial and alluvial fan materials underlie this zone. Lack of subsurface data precludes any quantitative description of the groundwater potential. However, the permeable nature of the sediments indicates the possibility of good groundwater potential.

Summary and Recommendations

According to the available well log data and surficial geology of the area, there appears to be excellent groundwater potential in the surficial deposits of the Alta Lake-Green Lake Valley.

To fully evaluate the groundwater resources in the area, the following program is recommended:

1. An initial site investigation to verify surficial and bedrock features determined from the aerial photographic study and review of the soil map of the Alta Lake area.

2. Site investigation to ascertain drill rig accessibility of potential sites.

3. Geophysical surveys across the valley to ascertain the thickness of surficial materials and depth to bedrock, so that better control can be made in locating the best drilling sites.

4. Correlating the best possible sites with planned route(s) for the main water supply line(s).

5. Test drilling and pumping tests at the selected sites to determine subsurface and aquifer data.

6. Analysis of all field data and final report on the groundwater resources in the area.

Marc Zubel.

Marc Zubel
Geological Engineer
Groundwater Section

MZ:lml

. . . . /5

References

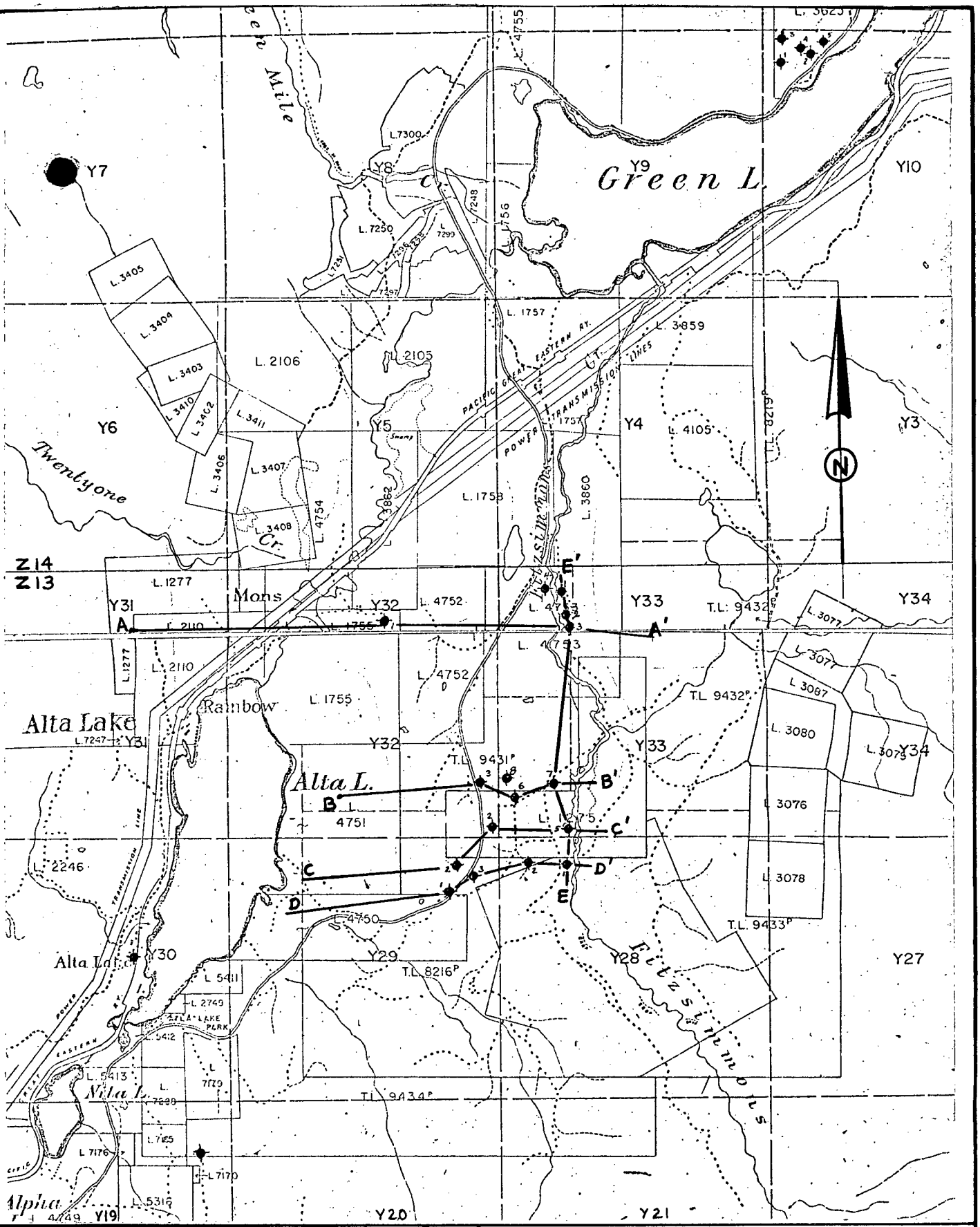
Le Breton, E.G. (1974). "Groundwater Prospects, Whistler Mountain Area, B.C.", Groundwater Division, Water Investigations Branch, B.C. Water Resources Service.

Livingston, E. (1978). "The Resort Municipality of Whistler, Water Supply", Report to Web Engineering Ltd. (September 22).

Luttmerding, H.A. (1971). Soil Survey of the Alta Lake Area, Soils Division, B.C. Department of Agriculture.

Smyth, K. (1974). "Whistler Water Supply Study", Water Investigations Branch, B.C. Water Resources Service.

Woodsworth, G.J. (1977). "Geology of Pemberton (92J) Map Area, Geological Survey of Canada (1977), G.S.C. Map No. 482.



Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
WELL LOCATION PLAN
(New Westminster Land District Sheet 62, 63)

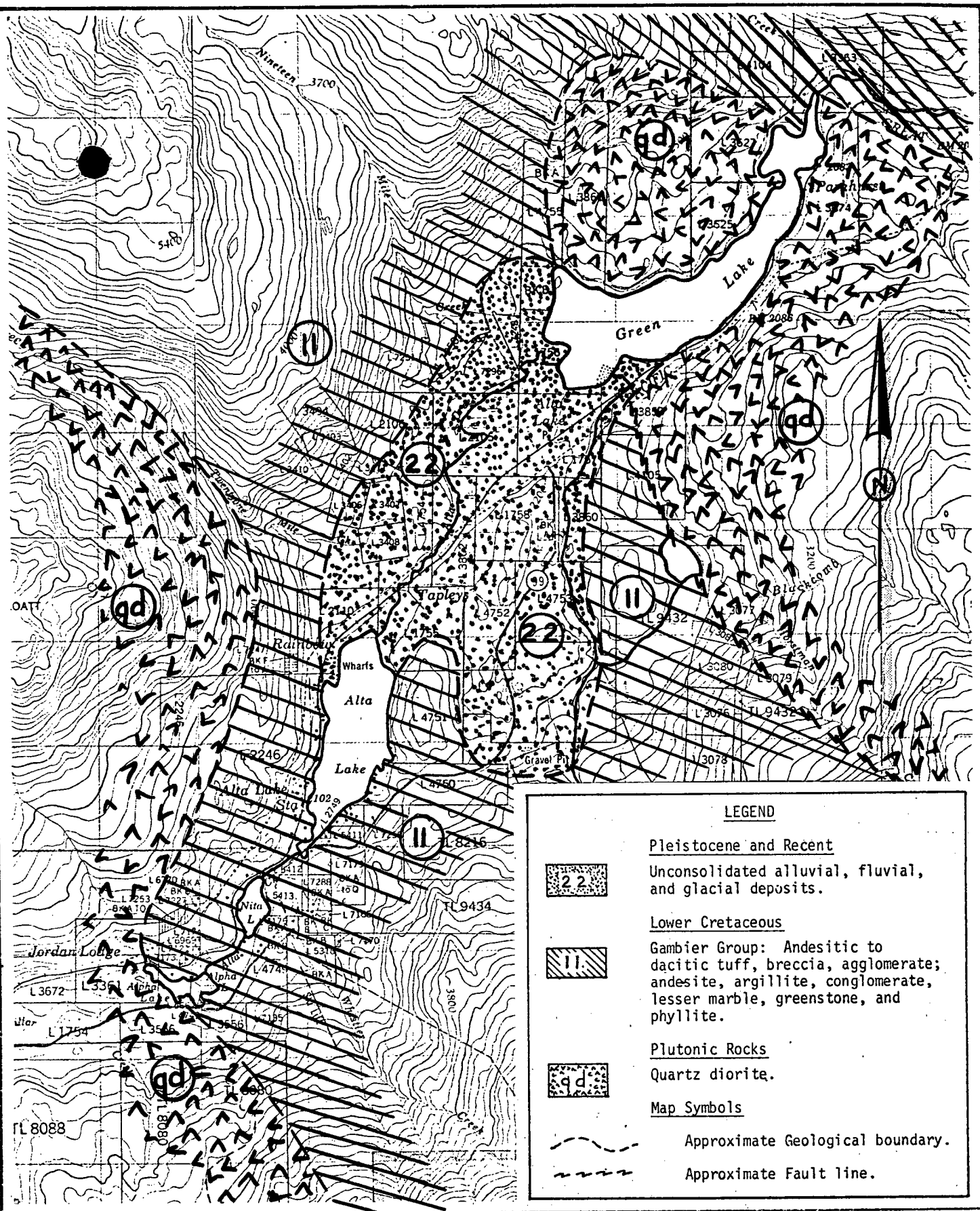
SCALE: VERT. .....
HOR. 1" = ½ mile

DATE
April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Figure 1

bcil 6660 wrs



Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

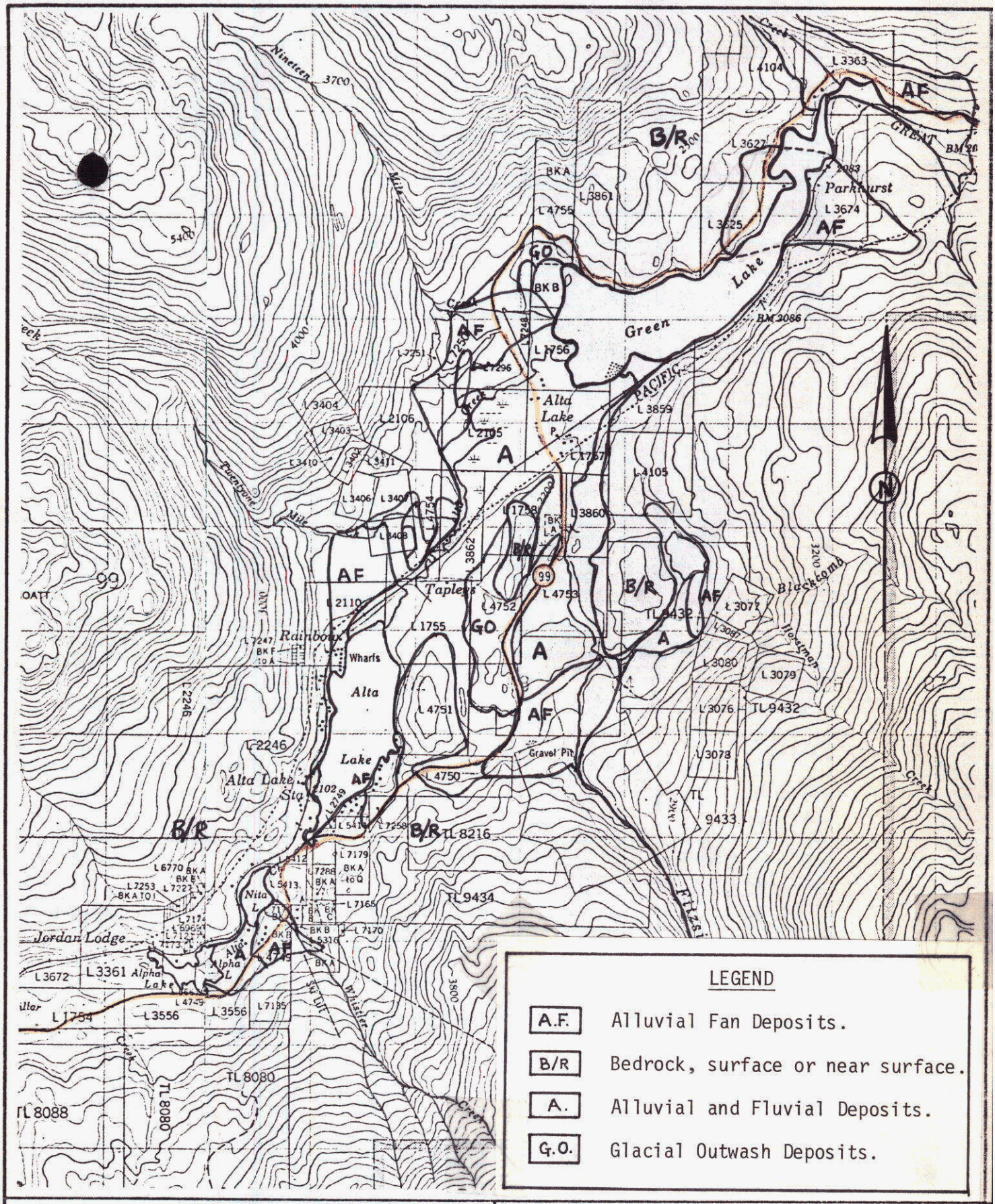
RESORT MUNICIPALITY OF WHISTLER
BEDROCK GEOLOGY
(after Woodsworth (1977), G.S.C.)

SCALE: VERT. .....
HOR. 1" = 4000' approx

DATE
April 1979

M. Zubel
ENGINEER

FILE No. 92-J-2
DWG. No. Figure 2



LEGEND

A.F.	Alluvial Fan Deposits.
B/R	Bedrock, surface or near surface.
A.	Alluvial and Fluvial Deposits.
G.O.	Glacial Outwash Deposits.

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
SURFICIAL GEOLOGY

SCALE: VERT. HOR. 1" = 4000' approx.

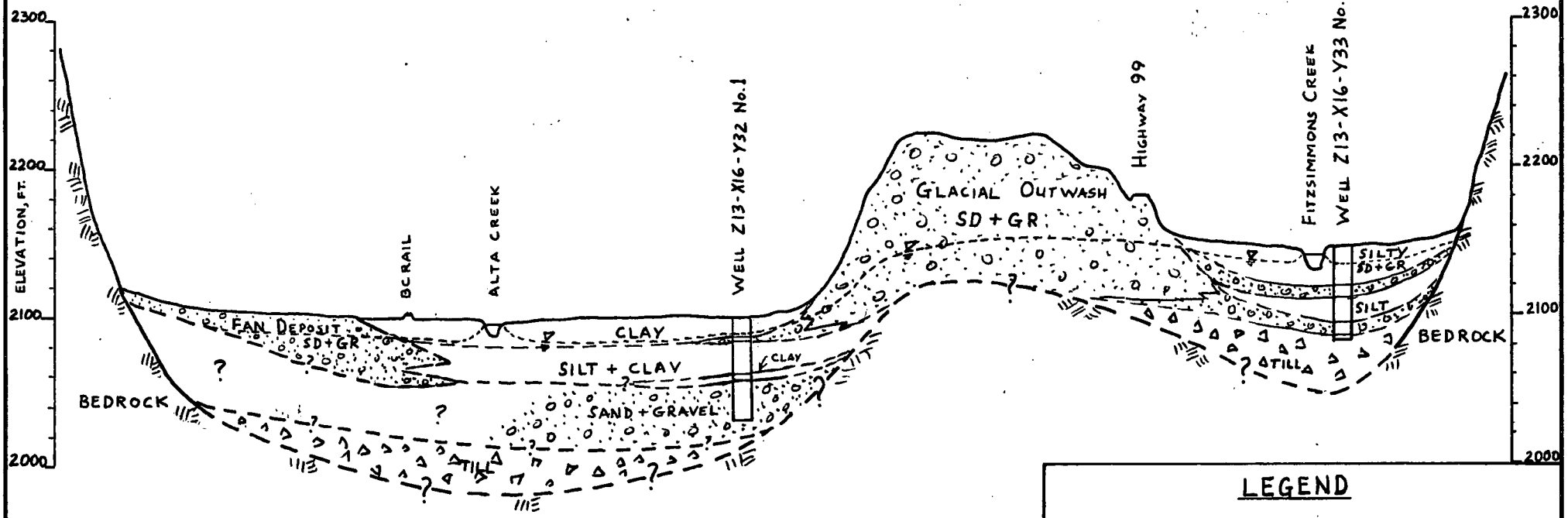
DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Figure 3

bcil 6660 wrs

SECTION A-A'



LEGEND

- SAND + GRAVEL
- TILL
- BEDROCK (ASSUMED)
- WATER TABLE

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
HYDROGEOLOGIC CROSS-SECTION A-A'

SCALE: VERT. 1" = 100'
HOR. 1" = 2500'

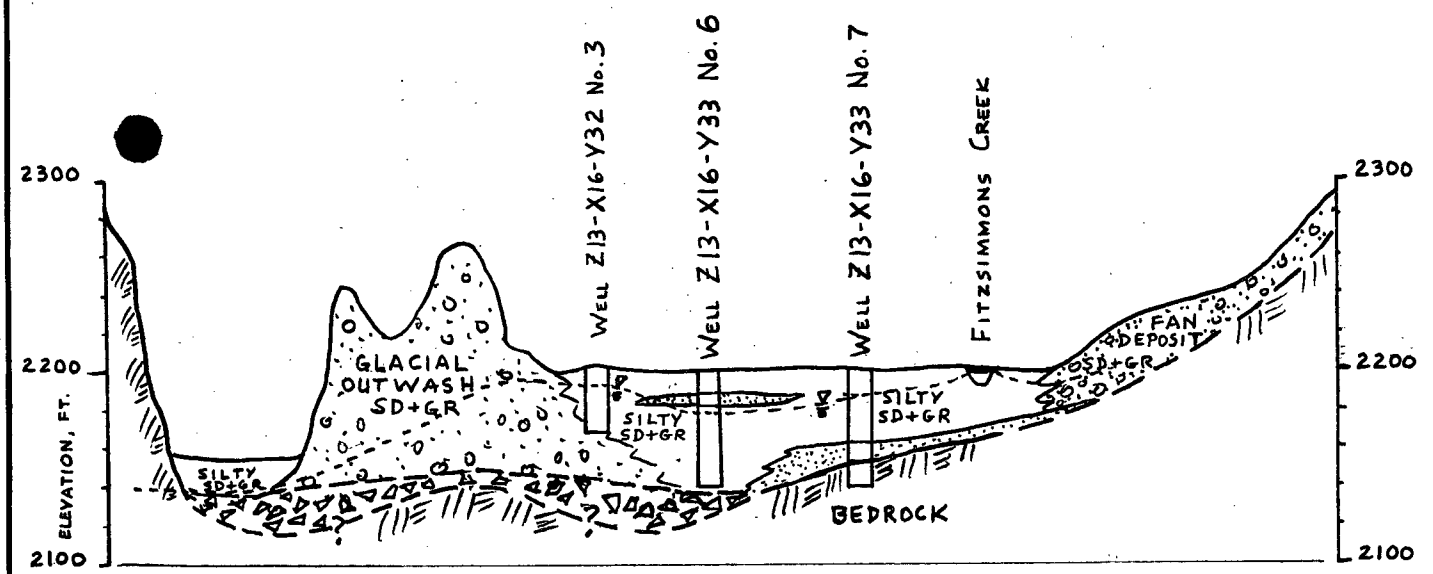
DATE: April 1979

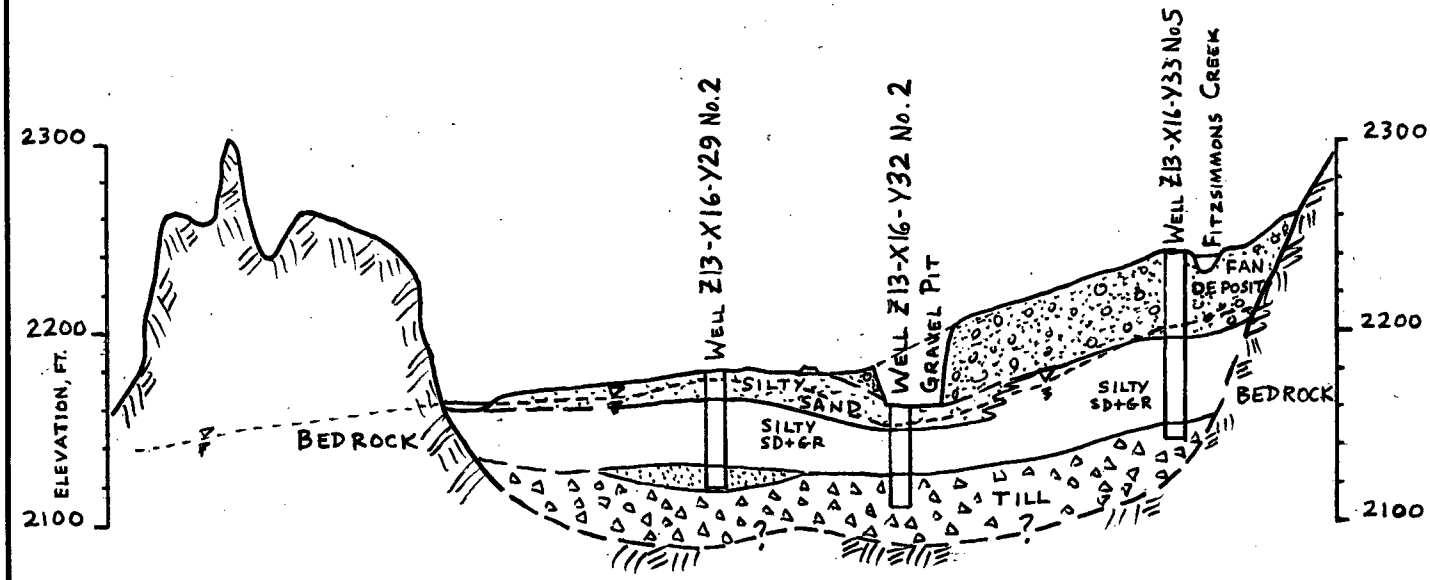
M. Zubel, ENGINEER

FILE No. 92-J-2 DWG. No. Figure 4

bcil 6661 wrs

SECTION B-B'





SECTION C-C'

LEGEND

- SAND
- SAND + GRAVEL
- TILL
- BEDROCK (ASSUMED)
- WATER TABLE

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
HYDROGEOLOGIC CROSS-SECTIONS B-B' and C-C'

SCALE: VERT. 1" = 100'
HOR. 1" = 2500'

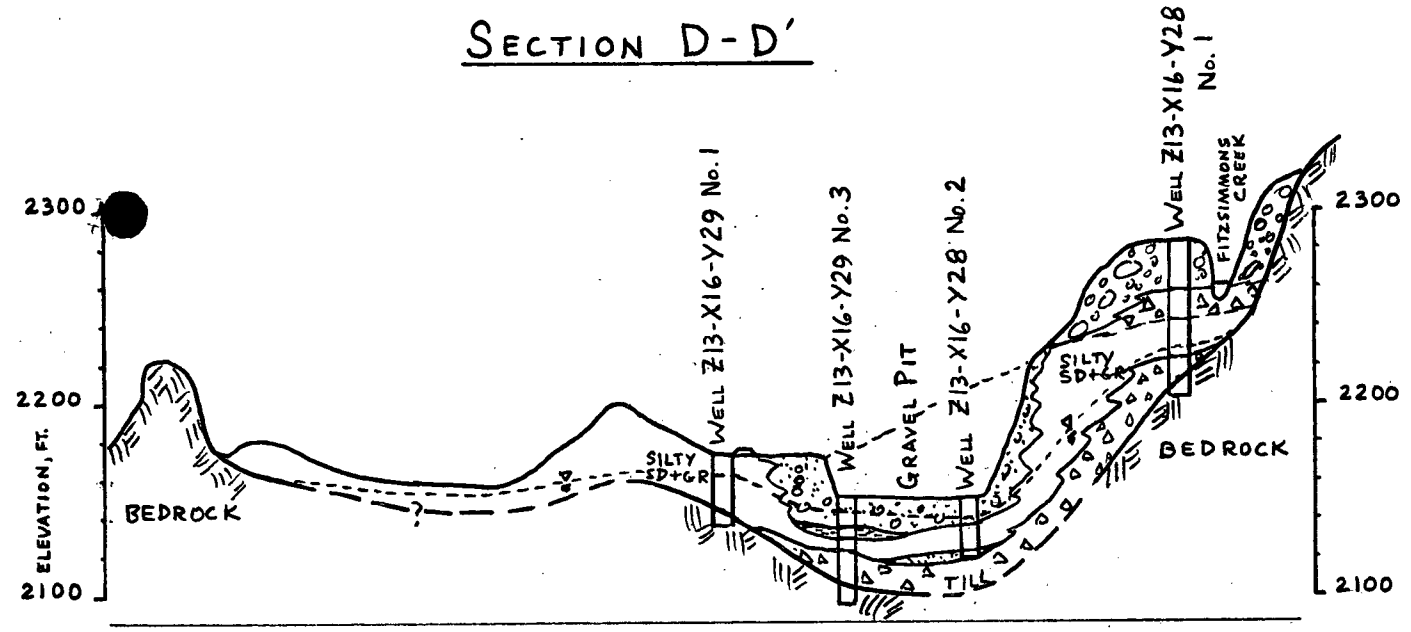
DATE
April 1979

M. Zubel ENGINEER

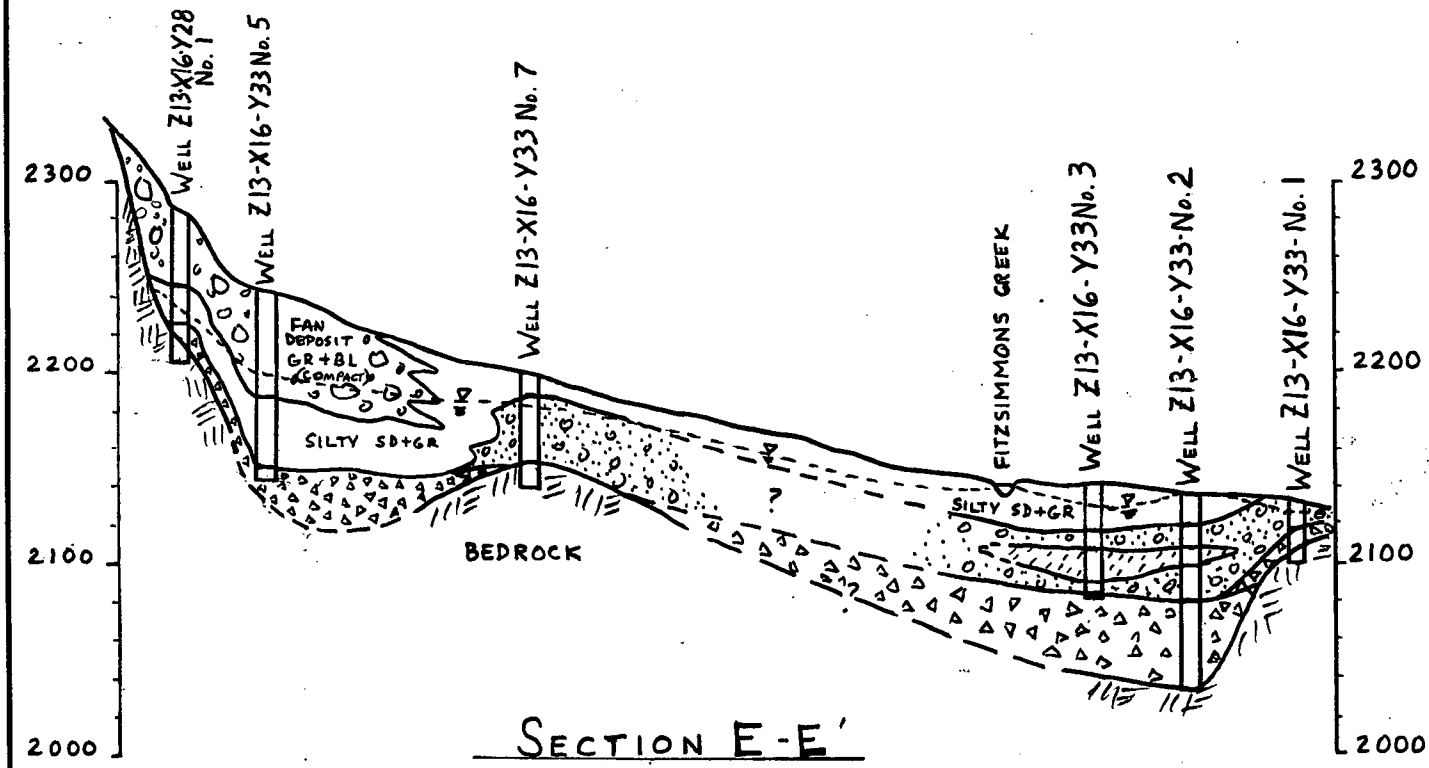
FILE No. 92-J-2 DWG. No. Figure 5

bcil 6660 wrs

SECTION D-D'



SECTION E-E'



LEGEND

- SAND + GRAVEL
- SILT
- TILL
- BEDROCK (ASSUMED)
- WATER TABLE

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
HYDROGEOLOGIC CROSS-SECTIONS D-D' and E-E'

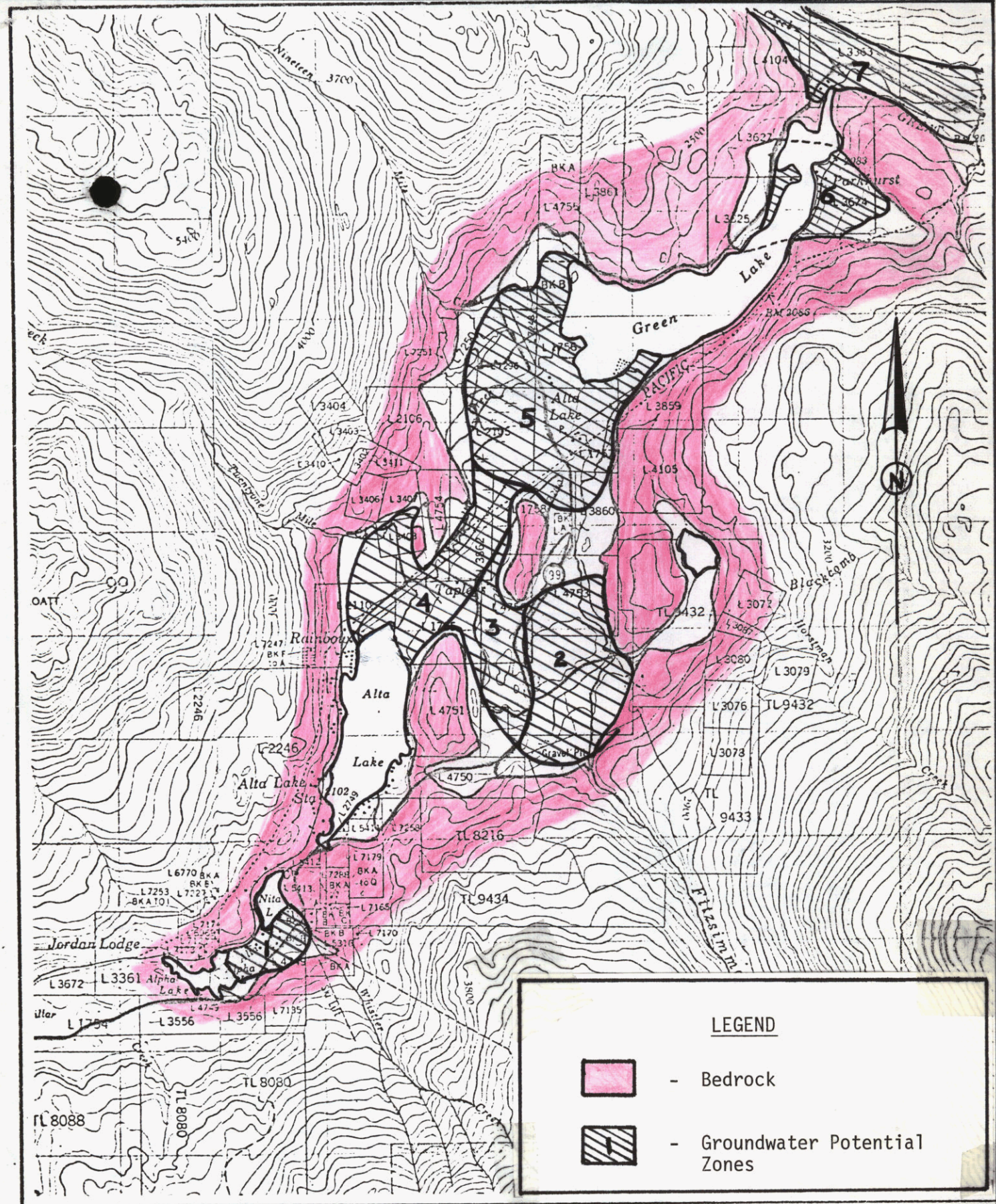
SCALE: VERT. 1" = 100'
HOR. 1" = 2500'

DATE: April 1979

M. Zubel — ENGINEER

FILE No. 92-J-2 DWG. No. Figure 6

bcil 6660 wrs



Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

RESORT MUNICIPALITY OF WHISTLER
GROUNDWATER POTENTIAL AREAS

SCALE: VERT. 1" = 4000' approx.
HOR.

DATE
April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Figure 7

bcil 6660 wrs

APPENDIX A:

WELL LOG SUMMARY

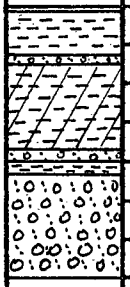
Location: Z13-X16-Y32 No. 1

Date Drilled: AUGUST 1971

Depth to Water: 11.5 feet

Yield: 400 USgpm

Comments: WATER QUALITY DATA AVAILABLE - WELL LOG FILE.



Depth ft.	From - To	Material
10	0-1	TOP SOIL
20	1-12	CLAY
30	12-14	SAND & GRAVEL
40	14-38	SILT & CLAY
50	38-40	SAND & GRAVEL
60	40-42	CLAY
70	42-70	SAND & GRAVEL

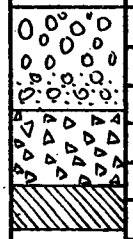
Location: Z13-X16-Y33 No. 1

Date Drilled: JUNE 1969

Depth to Water: 6 feet

Yield: L. 10 gpm

Comments: ALL CASING PULLED



Depth	From - To	Material
5	0-10	COARSE GR., COBB, BLDRS.
10	10-13	COARSE GR. & SAND
15	13-23	BROWN TILL
20	23-28	BEDROCK
25		
30		

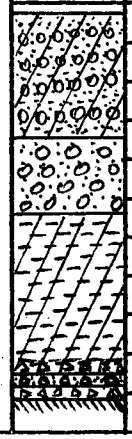
Location: Z13-Z16-Y33 No. 2

Date Drilled: JULY 1969

Depth to Water: Flowing +3'

Yield: 300 USgpm

Comments: SCREENED AT 45'-54' 250 SLOT



Depth	From - To	Material
10	0-3	TOP SOIL
20	3-14	SILTY GRAVEL
30	14-28	SAND, GRAVEL & WOOD
40	28-35	SILT & PLANT DEBRIS
50	35-40	COARSE GRAVEL & WOOD
60	40-54	COARSE GRAVEL & SAND
70	54-94	GREY-GREEN SILTY CLAY
80	94-96	GRAVELLY TILL
90	96-98	SAND & GRAVEL
100	98-101	TILL
	101-102	BEDROCK

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

Location: Z13-X16-Y33 No. 3

Date Drilled: AUGUST 1969

Depth to Water: 12 feet

Yield: 300 gpm

Comments: SCREENED @ 49'-60'

Litho.	Depth	From - To	Material
	10	0-8	SILT & GRAVEL
	20	8-25	SAND, GRAVEL, ORG. & SILT
	30	25-33	SAND & GRAVEL
	40	33-40	BR. SILT & ORGANIC
	50	40-50	GREY SILT
	60	50-58	SAND & GRAVEL
		58-60	GREY TILL, BLDR, BEDROCK

Location: Z13-X16-Y33 No. 4

Date Drilled: OCTOBER 1969

Depth to Water: 2 feet

Yield: 3½ gpm (Bail Test)

Comments: SERVICES SKI BOOT MOTEL

Litho.	Depth	From - To	Material
	10	0-1	COARSE GRAVEL FILL
	20	1-3	HIGHLY ORGANIC SILT
	30	3-10	SILTY SAND (W.B.)
	40	10-72	TILL, OCCASIONAL BOULDER
	50	72-98	BEDROCK
	60		
	70		
	80		
	90		
	100		

Location: Z14-X16-Y10 No. 1

Date Drilled:

Depth to Water: 17 feet

Yield: L. 1 gpm

Comments: EFFLUENT DISPOSAL TEST WELL

Litho.	Depth	From - To	Material
	10	0-50	BEDROCK
	20		FRACTURES @ 4, 13, 30,
	30		39, 46
	40		
	50		

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE
April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

bcil 6660 wrs

WELL LOG SUMMARY

Location: Z14-X16-Y10 No. 2

Date Drilled: [redacted]

Depth to Water: 24.5 feet

Yield: 3 USgpm

Comments: EFFLUENT DISPOSAL TEST WELL

Litho.	Depth	From - To	Material
	10	0-3	OVERBURDEN
	20	3-53	BEDROCK
	30		FRACTURES @ 28, 43,
	40		46, 48
	50		

Location: Z14-X16-Y10 No. 3

Date Drilled:

Depth to Water: 5 feet

Yield: L. 1 gpm

Comments: EFFLUENT DISPOSAL TEST WELL

Litho.	Depth	From - To	Material
	10	0-50	BEDROCK FRACTURES @
	20		16, 35, 38, 41, 43, 49
	30		
	40		
	50		

Location: Z13-X16-Y30 No. 1

Date Drilled: NOVEMBER 1976

Depth to Water: 17 feet

Yield: 25-30 gpm

Comments: B.C.R. WELL

Litho.	Depth	From - To	Material
	50	0-3	SANDY GRAVEL
	100	3-220	GREY BASALT
	150	220-290	DARK BASALT (5 gpm)
	200	290-330	DARK BASALT (25-30 gpm)
	250		
	300		
	350		

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON

RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

Location: Z13-X16-Y19 No. 1

Date Drilled: 1976 (?)

Depth to Water:

Yield: 95 USgpm

Comments: WHISTLER WATERWORKS (WALTER ZEBROWSKI)

Litho.	Depth	From - To ft.	Material
	50	0-35	OVERBURDEN
	100	35-396	BEDROCK
	150		
	200		
	250		
	300		
	350		
	400		

Location: Z13-X16-Y28 #1

Date Drilled: SEPTEMBER 1978

Depth to Water: 55 feet

Yield: ?

Comments: TEST WELL FOR NEW WHISTLER TOWN CENTER.

Litho.	Depth ft.	From - To ft.	Material
	10	0-25	GRAVEL & BOULDERS
	20	25-40	STONY TILL & BOULDERS
	30	40-50	SILTY GRAVEL, SANDY
	40	50-60	GRAVEL & SILTS
	50	60-62	HARDPAN
	60	62-68	GRAVEL (HARD-PACKED)
	70	68-72	BEDROCK (FRACT) & SILT
	80	72-80	BEDROCK

Location: Z13-X16-Y33 #5

Date Drilled: SEPTEMBER 1978

Depth to Water: 40 feet

Yield: 433 USgpm (26.4' D.D.)

Comments: TEST PRODUCTION WELL FOR WHISTLER TOWN CENTER - SCREENED @ 76'-92'.

Litho.	Depth	From - To	Material
	10	0-14	COARSE GRAVEL & BOULDERS
	20	14-22	SILTY SAND, GRAVEL & BLDRS
	30	22-40	COARSE GRAVEL & BLDRS
	40	40-48	COARSE STONES & BLDRS
	50	48-56	SILTY GR, BLDRS, W.B.
	60	56-62	SILTY SAND, GR. & STONES
	70	62-80	COARSE SAND, GRAVEL, SILTY
	80	80-84	SAND, GRAVEL, BLDRS, SILTY
	90	84-92	COARSE SAND, GRAVEL, SILTY
	100	92-98	SILTY SANDY TILL & STONES

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

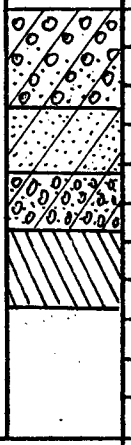
Location: Z13-X16-Y29 No. 1

Date Drilled: SEPTEMBER 1974

Depth to Water: 11 feet

Yield: -

Comments: D.O.H. - WHISTLER MOUNTAIN COMMUNITY PLAN TEST HOLE NO. 74-1 (ABANDONED)



Depth	From - To	Material
5	0-7	SILTY GRAVEL, ORG. & WOOD
10	7-13	SILTY GRAVEL & SAND
15	13-22	SILTY SAND, BR. & WOOD
20	22-28	SILTY GRAVEL & SAND
25	28-38	BEDROCK - qd
30		
35		
40		

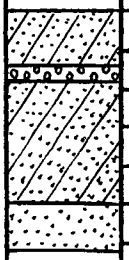
Location: Z13-X16-Y29 No. 2

Date Drilled: SEPTEMBER 1974

Depth to Water: 4 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-2 (ABANDONED)



Depth	From - To	Material
10	0-4	SAND, SILTY, MED. BR.
20	4-8	SAND, MED. COARSE
30	8-14	SAND, SILTY, FN MED.
40	14-18	GRAVEL, MED. & WOOD
50	18-22	SAND, SILTY, CR. DENSE
60	22-49	SAND, SILTY & ORG.
70	49-50	PEAT
	50-62	SAND, MED.

Location: Z13-X16-Y29 No. 3

Date Drilled: SEPTEMBER 1974

Depth to Water: 5 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-4 (ABANDONED)

Depth	From - To	Material
5	0-6	GRAVEL, SANDY
10	6-10	SAND, SILTY, FN MED.
15	10-14	SAND, GRAVELLY
20	14-15	CLAYEY SILT
25	15-17	SAND, GRAVELLY
30	17-18	CLAY & ORG.
35	18-19.5	CLAYEY SILT
40	19.5-28	GRAVEL & SAND, DENSE
45	28-43	SILTY SAND, GRAVEL & BLDR.
50	43-55	BEDROCK - qd
55		

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON

RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

Location: Z13-X16-Y28 No. 2

Date Drilled: SEPTEMBER 1974

Depth to Water: 11 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-5 (ABANDONED)

Depth	From - To	Material
5	0-1	SILTY GRAVEL
10	1-4	SAND
15	4-13	GRAVEL, SANDY
20	13-28	SILTY SAND & GRAVEL
25	28-31	GRAVELLY SAND
30		
35		

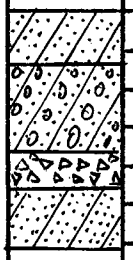
Location: Z13-X16-Y32 No. 2

Date Drilled: SEPTEMBER 1974

Depth to Water: 11-12 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-6 (ABANDONED)



Depth	From - To	Material
10	0-13	SAND, SILTY
20	13-23	GRAVEL & SILTY SAND
30	23-34	GRAVELLY SILTY SAND
40	34-37	SILTY SAND & GRAVEL
50	37-38	BOULDER
60	38-47	GRAVEL & SILTY SAND (TILL)
	47-61	SAND, SILTY, DENSE

Location: Z13-X16-Y32 No. 3

Date Drilled: SEPTEMBER 1974

Depth to Water: 14-15 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-7 (ABANDONED)

Depth	From - To	Material
5	0-14	SAND & GRAVEL, SILTY
10	14-17	GRAVEL, SILTY
15	17-35	SILTY, GRAVELLY SAND
20		
25		
30		
35		

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

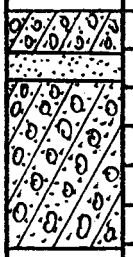
Location: Z13-X16-Y33 No. 6

Date Drilled: SEPTEMBER 1974

Depth to Water: 20 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-8 (ABANDONED)



Depth	From - To	Material
10	0-1	GRAVEL
20	1-2	SILT
30	2-11	DENSE SILTY SD & GR
40	11-19	SAND, LOOSE
50	19-33	SILTY SD & GR, LOOSE
60	33-61	SILTY SD & GR, DENSE

Location: Z13-X16-Y33 No. 7

Date Drilled: SEPTEMBER 1974

Depth to Water: 17 feet

Yield: -

Comments: D.O.H. TEST HOLE NO. 74-9 (ABANDONED)

Depth	From - To	Material
5	0-6	SANDY SILT
10	6-7	GRAVEL, SILTY
15	7-11	SILTY SAND
20	11-38	SANDY GRAVEL
25	38-48	SAND
30	48-60	BEDROCK - qd
35		
40		
45		
50		

Location: Z14-X16-Y10 No. 4

Date Drilled: FEBRUARY 1979

Depth to Water:

Yield:

Comments: O'TOOLE WELL

Depth	From - To	Material

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER - PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A

WELL LOG SUMMARY

Location: Z14-X16-Y10 No. 5

Date Drilled: 1978

Depth to Water:

Yield: 50 gpm (1 HR. BAIL)

Comments: BENDA WELL

Litho.	Depth	From - To	Material
		205	BEDROCK

Location: Z13-X16-Y33 No. 8

Date Drilled: SEPTEMBER 1975

Depth to Water: 10 feet

Yield: APPROX. 50 gpm

Comments: MYRTLE PHILLIP SCHOOL

Litho.	Depth	From - To	Material
	10	0-35	SAND, CLAY, GRAVEL
	20	35-52	SAND, GRAVEL
	30		
	40		
	50		

Location:

Date Drilled:

Depth to Water:

Yield:

Comments:

Litho.	Depth	From - To	Material

Province of British Columbia
Ministry of the Environment
ENVIRONMENTAL AND ENGINEERING SERVICE
WATER INVESTIGATIONS BRANCH

TO ACCOMPANY REPORT ON
RESORT MUNICIPALITY OF WHISTLER -
PRELIMINARY GROUNDWATER POTENTIAL STUDY

SCALE: VERT. N/A
HOR. N/A

DATE
April 1979

M. Zubel ENGINEER

FILE No. 92-J-2 DWG. No. Appendix A