
Appendix A4

Stream Water Quality Laboratory Results



CHEMICAL ANALYSIS REPORT

Date: September 28, 2000
ASL File No. M2376
Report On: MELP 934 Water Analysis
Report To: **Hatfield Consultants Ltd.**
201 - 1571 Bellevue Ave.
West Vancouver, BC
V7V 1A6
Attention: **Mr. Jason Baird**
Received: September 21, 2000

ASL ANALYTICAL SERVICE LABORATORIES LTD.
per:


Joanne Patrick, B.Sc. - Project Chemist
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RESULTS OF ANALYSIS - Water

File No. M2376

Sample ID	Brem River	Homathko River
Sample Date	W.Samp. 00 09 15	W.Samp. 00 09 15
Sample Time	10:00	12:30

Physical Tests

Conductivity (umhos/cm)	27	29
Total Dissolved Solids	15	24
pH	6.81	7.15

Dissolved Anions

Alkalinity-Total	CaCO ₃	9	7
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Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.



METHODOLOGY

File No. M2376

Outlines of the methodologies utilized for the analysis of the samples submitted are as follows:

Conductivity in Water

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

For more detail see ASL "Collection & Sampling Guide"

Solids in Water

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) and total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius, TSS is determined by drying the filter at 104 degrees celsius. Total solids are determined by evaporating a sample to dryness at 104 degrees celsius. Fixed and volatile solids are determined by igniting a dried sample residue at 550 degrees celsius.

Recommended Holding Time:

Sample: 7 days

Reference: APHA

For more detail see ASL "Collection & Sampling Guide"

pH in Water

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode.

Recommended Holding Time:

Sample: 2 hours

Reference: APHA

For more detail see ASL "Collection & Sampling Guide"



METHODOLOGY (cont'd)

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Alkalinity in Water by Colourimetry

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

For more detail see ASL "Collection & Sampling Guide"

End of Report

