

**ASSESSMENT STUDY OF WATER AND WASTEWATER SYSTEMS  
AND ASSOCIATED WATER MANAGEMENT PRACTICES  
AT HESQUIAHT FIRST NATION**

**For**

**Indian and Northern Affairs Canada  
British Columbia Region**

**By**

**UMA Engineering Ltd.  
3030 Gilmore Diversion  
Burnaby, British Columbia  
V5G 3B4**

**February 2002**

Assessment Study of Water and Wastewater Systems  
Hesquiaht First Nation Refuge Cove IR No. 6

## Appendix D

# WATER TESTING RESULTS

(CHEMICAL/PHYSICAL/BACTERIOLOGICAL)  
WITH COMPARISONS TO THE  
*GUIDELINES FOR CANADIAN DRINKING WATER QUALITY (GCDWQ)*



## CHEMICAL ANALYSIS REPORT

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**Date:** December 28, 1998

**ASL File No.** K1963

**Report On:** Water Analysis (Hesquiaht)  
For Michael McKinley, EHO

**Report To:** **Health Canada - EHS (Pacific)**  
1230 Government Street  
Victoria, BC  
V8W 3G7.

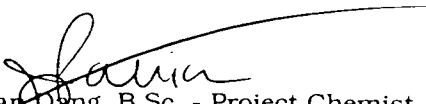
**Attention:** **Mr. Peter Mazey**, Sr. Environmental Health Officer

**Received:** December 4, 1998

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**ASL ANALYTICAL SERVICE LABORATORIES LTD.**

per:

  
Carri Dang, B.Sc. - Project Chemist  
Joanne Patrick, B.Sc. - Project Chemist

cc: Michael McKinley, EHO  
Health Canada, Nanaimo.





**REMARKS**

File No. K1963

The water as represented by the sample submitted met the Canadian Drinking Water Guidelines for all parameters analysed. See the guidelines attached or contact ASL if you require any additional information.



## **Appendix 2 - METHODOLOGY**

File No. K1963

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

### **Conventional Parameters in Water**

These analyses are carried out in accordance with procedures described in "Methods for Chemical Analysis of Water and Wastes" (USEPA), "Manual for the Chemical Analysis of Water, Wastewaters, Sediments and Biological Tissues" (BCMOE), and/or "Standard Methods for the Examination of Water and Wastewater" (APHA). Further details are available on request.

### **Metals in Water**

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 19th Edition 1995 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000A), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

### **Mercury in Water**

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 19th Edition 1995 published by the American Public Health Association. A cold-oxidation procedure involving bromine monochloride is used, followed by instrumental analysis by cold-vapour atomic absorption spectrophotometry (CVAAS).

**End of Report**

**Page(s) 004875 to\à 004901**

**Is(are) under consultation**