



Certificate of Analysis

Southland Regional Council
 Private Bag 90 116
 Invercargill

BP9161
 RE 2/5

25 November 1994

Attention: Graeme McKenzie

Ultra Trace metal analysis of water samples

Date Received : 2.11.94
 Sample Type : Water

ANALYSES					
	Lab No:	BP9161/1	BP9161/2	BP9161/3	BP9161/4
	Site	94/1149	94/1150	94/1151	94/1153
	Method				
Al	DISS	24	<5*	32	23
As	DISS	<.02*	3.6	0.13	0.13
B	DISS	<3*	150	<3*	<3*
Ba	DISS	1.9	190	5.3	4.6
Cd	DISS	<.02*	<.02*	<.02*	<.02*
Cr	DISS	0.58	3.0	0.60	0.78
Cu	DISS	0.33	0.73	0.85	0.76
Fe	DISS	120	55	210	150
Mn	DISS	19	18	31	20
Ni	DISS	0.27	0.31	0.89	0.76
Pb	DISS	<.1*	<.1*	<.1*	<.1*
Se	DISS	<1*	<1*	<1*	<1*
Zn	DISS	<1.3*	2.5	<1.3*	<1.3*
Al	DIRECT	130			

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As	DIRECT	0.13			
B	DIRECT	<3*			
Ba	DIRECT	2.3			
Cd	DIRECT	<.02*			
Cr	DIRECT	1.1			
Cu	DIRECT	0.69			
Fe	DIRECT	480			
Mn	DIRECT	31			
Ni	DIRECT	0.38			
Pb	DIRECT	<.1*			
Se	DIRECT	<1*			
Zn	DIRECT	<1.3*			

The units used are mg/m³.

The abbreviations and symbols in the above report have the following meanings:

- Al = Aluminium
- As = Arsenic
- B = Boron
- Ba = Barium
- Cd = Cadmium
- Cr = Chromium
- Cu = Copper
- Fe = Iron
- Mn = Manganese
- Ni = Nickel
- Pb = Lead
- Se = Selenium
- Zn = Zinc
- DISS = Dissolved (analysed by ICP-MS)
- DIRECT = Direct ICP-MS analysis of sample acidified in the laboratory

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< = less than
* = Warning: below criterion of detection

Analytical results are for samples as received.

This report may be reproduced in full, but not in part.

Comments:

To be analysed both by Dissolved method and direct ICPMS.



L Pickston
Analyst



Dr S K Fellows
Section Leader