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## **Certificate of Analysis**

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Client: Timaru District Council Contact: Pauline Robertson

C/- Timaru District Council

PO Box 522 Timaru 7940 **Date Received: Date Reported:** 

11-Feb-2022 17-Feb-2022

2864753

**Quote No: Order No:** 

Lab No:

38674

**Client Reference:** 

Submitted By: Pauline Robertson

Sample Type: Aqueous								
	Sample Name:	Armadillos	Aorangi Stadium	108 Meadows Rd	Opihi Gallery			
	•	09-Feb-2022 9:10	09-Feb-2022 9:30	09-Feb-2022	09-Feb-2022			
		am	am	10:00 am	12:10 pm			
	Lab Number:	2864753.1	2864753.2	2864753.3	2864753.4			
Dissolved Manganese	g/m³	0.0014	0.037	0.0013	0.0068	-		
Total Manganese	g/m³	0.0033	0.120	0.0029	0.0072	-		

## **Summary of Methods**

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous							
Test	Method Description	Default Detection Limit	Sample No				
Total Digestion	Nitric acid digestion. APHA 3030 E (modified) 23 <sup>rd</sup> ed. 2017.	-	1-4				
Filtration for dissolved metals analysis	Sample filtration through 0.45µm membrane filter and preservation with nitric acid. APHA 3030 B 23rd ed. 2017.	-	1-4				
Dissolved Manganese	Filtered sample, ICP-MS, trace level. APHA 3125 B 23 <sup>rd</sup> ed. 2017.	0.0005 g/m <sup>3</sup>	1-4				
Total Manganese	Nitric acid digestion, ICP-MS, trace level. APHA 3125 B 23 <sup>rd</sup> ed. 2017 / US EPA 200.8.	0.00053 g/m <sup>3</sup>	1-4				

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 17-Feb-2022. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

Ara Heron BSc (Tech)

Client Services Manager - Environmental



