

Certificate of Analysis

Laboratory Reference:220906-156

Attention:	Tony Miguel	Final Report:	475374-0
Client:	WHAU COASTAL WALKWAY ENVIRONMENTAL TRUST	Report Issue Date:	13-Sep-2022
Address:	PO Box 15215, New Lynn, 0640	Received Date:	06-Sep-2022
Client Reference:	Metal Testing	Laboratory Activity Dates:	07-Sep-2022 - 13-Sep-2022
Purchase Order:	Not Available	Quote Reference :	14325

Sample Details	WATERS	WATERS	WATERS	WATERS
Lab Sample ID:	220906-156-1	220906-156-2	220906-156-3	220906-156-4
Client Sample ID:				
Sample Date/Time	06/09/2022 15:50	06/09/2022 13:30	06/09/2022 15:20	06/09/2022 12:30
Description:	Site 4	Site 7	Site 8	Site 9

Metals					
Total Metals by ICP-MS—Trace (Default Digest)					
Copper (Total)	mg/L	-	-	0.0066 *	0.0072 *
Lead (Total)	mg/L	-	-	0.0028 *	0.0027 *
Mercury (Total)	mg/L	-	-	<0.00025 *	<0.00005 *
Total Metals on Saline Waters by ICP-MS—Trace (Default Digest)					
Copper (Total)	mg/L	0.0025	0.0029	-	-
Lead (Total)	mg/L	0.00085	0.0012	-	-
Mercury (Total)	mg/L	<0.0005	<0.0005	-	-

Sample Details	WATERS	WATERS	WATERS
Lab Sample ID:	220906-156-5	220906-156-6	220906-156-7
Client Sample ID:			
Sample Date/Time	06/09/2022 13:00	06/09/2022 11:30	06/09/2022 14:00
Description:	Site 20	Site 24	Site 3

Metals					
Total Metals by ICP-MS—Trace (Default Digest)					
Copper (Total)	mg/L	0.0065 *	0.0055	-	-
Lead (Total)	mg/L	0.0027 *	0.0018	-	-
Mercury (Total)	mg/L	<0.00005 *	<0.00005	-	-
Total Metals on Saline Waters by ICP-MS—Trace (Default Digest)					
Copper (Total)	mg/L	-	-	0.0027	-
Lead (Total)	mg/L	-	-	0.001	-
Mercury (Total)	mg/L	-	-	<0.0005	-

Results marked with * are not accredited to International Accreditation New Zealand. A dash indicates no test performed.

Where samples have been supplied by the client, they are tested as received.

The results of analysis contained in this report relate only to the sample(s) tested. Where sample collection was performed by the laboratory, the results of analysis contained in this report relate only to the sample(s) collected.

Reference Methods

The sample(s) referred to in this report were analysed by the following method(s)

Analyte	Method Reference	MDL	Samples	Location
Metals				
Total Metals by ICP-MS—Trace (Default Digest)				
Copper (Total)	APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	3, 4, 5, 6	Auckland
Lead (Total)	APHA (online edition) 3125 B by ICPMS	0.00010 mg/L	3, 4, 5, 6	Auckland
Mercury (Total)	APHA (online edition) 3125 B by ICPMS	0.00005 mg/L	3, 4, 5, 6	Auckland
Total Metals on Saline Waters by ICP-MS—Trace (Default Digest)				



Metals**Total Metals on Saline Waters by ICP-MS—Trace (Default Digest)**

Copper (Total)	In House based on APHA (online edition) 3125 B by ICPMS	0.0002 mg/L	1, 2, 7	Auckland
Lead (Total)	In House based on APHA (online edition) 3125 B by ICPMS	0.0003 mg/L	1, 2, 7	Auckland
Mercury (Total)	In House based on APHA (online edition) 3125 B by ICPMS	0.0005 mg/L	1, 2, 7	Auckland

Preparations

Acid Digest for Total Metals on Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		1, 2, 7	Auckland
Digest for Total Metals in Liquids	APHA 3030E Modified (4:1 Nitric:Hydrochloric Acid: 95°C 2 hours)		3, 4, 5, 6	Auckland

*The method detection limit (MDL) listed is the limit attainable in a relatively clean matrix. If dilutions are required for analysis the detection limit may be higher.
For more information please contact the Compliance and Projects Manager.*

Samples, with suitable preservation and stability of analytes, will be held by the laboratory for a period of two weeks after results have been reported, unless otherwise advised by the submitter.

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KTP Signatory

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