



CENTRAL ENVIRONMENTAL LABORATORIES

Central Environmental Laboratories  
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 New Zealand

## Analytical Report

COA No.: 23/04288-1

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Palmerston North City Council  
 Water Unit  
 Private Bag 11034  
 Palmerston North

Compliance of samples tested are assessed according to 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022'

Date received: 17/07/2023

Time received: 16:05

Sampled by: Alby Shaw

Sample date: 17/07/2023

Sample type: Source

Order no.: 660125

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-01</b>		<b>Sample time: 13:22</b>			
Bunnythorpe Bore G00914	Alkalinity - Total	120	g/m <sup>3</sup> CaCO <sub>3</sub>		
	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.02	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	37.8	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	29	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	120	g/m <sup>3</sup> CaCO <sub>3</sub>	Within the GV range	
	Calcium Hardness Calculation	94	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	20.7	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	7.0	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	14.0	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	10.4	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-02</b>	<b>Sample time: 15:45</b>				
Longburn Bore	Alkalinity - Total	130	g/m <sup>3</sup> CaCO <sub>3</sub>		
G00259	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	37.5	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	33	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	130	g/m <sup>3</sup> CaCO <sub>3</sub>	Within the GV range	
	Calcium Hardness Calculation	94	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	17.0	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	8.0	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	13.7	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	5.51	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

<b>23/04288-03</b>	<b>Sample time: 12:11</b>		<b>Order no.: 660109</b>		
Ashhurst Bore	Alkalinity - Total	100	g/m <sup>3</sup> CaCO <sub>3</sub>		
G00110	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	< 0.00	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	30.1	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	23	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	98	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	75	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	6.42	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	5.6	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	7.9	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	10.1	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-04</b>	<b>Sample time: 14:38</b>				
Keith Street Bore 1 G01208	Alkalinity - Total	95	g/m <sup>3</sup> CaCO <sub>3</sub>		
	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	30.6	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	23	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	99	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	76	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	6.98	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	5.6	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	10.6	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	9.17	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

<b>23/04288-05</b>	<b>Sample time: 14:57</b>				
Papaioea Park Bore 1 G00104	Alkalinity - Total	110	g/m <sup>3</sup> CaCO <sub>3</sub>		
	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	38.3	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	29	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	120	g/m <sup>3</sup> CaCO <sub>3</sub>	Within the GV range	
	Calcium Hardness Calculation	96	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	22.5	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	7.0	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	15.4	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	10.9	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-06</b>	<b>Sample time: 14:59</b>				
Papaioea Park Bore 2	Alkalinity - Total	84	g/m <sup>3</sup> CaCO <sub>3</sub>		
G01412	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	26.4	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	20	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	86	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	66	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	5.89	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	4.8	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	10.2	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	10.0	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

<b>23/04288-07</b>	<b>Sample time: 13:43</b>				
Roberts Line Bore 1	Alkalinity - Total	98	g/m <sup>3</sup> CaCO <sub>3</sub>		
G00106	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.02	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	28.7	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	20	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	91	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	72	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	6.99	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	4.7	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	10.2	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	11.0	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-08</b>	<b>Sample time: 13:47</b>				
Roberts Line Bore 2	Alkalinity - Total	89	g/m <sup>3</sup> CaCO <sub>3</sub>		
G01736	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	27.6	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	21	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	90	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	69	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	7.09	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	5.0	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	9.7	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	9.59	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

<b>23/04288-09</b>	<b>Sample time: 15:21</b>				
Takaro Bore	Alkalinity - Total	95	g/m <sup>3</sup> CaCO <sub>3</sub>		
G00105	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.01	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	27.8	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	24	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	93	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	70	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	9.64	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	5.8	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	11.4	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	3.57	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

Sample	Test	Result	Units	Comments	Uncertainty
<b>23/04288-10</b>	<b>Sample time: 10:29</b>			<b>Order no.: 660122</b>	
Turitea Dam	Alkalinity - Total	16	g/m <sup>3</sup> CaCO <sub>3</sub>		
S00082	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.02	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	3.8	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	6	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	16	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	9	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	13.1	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	1.6	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	9.3	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	4.04	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

<b>23/04288-11</b>	<b>Sample time: 14:09</b>				
Railway Road Bore	Alkalinity - Total	89	g/m <sup>3</sup> CaCO <sub>3</sub>		
G03043	Arsenic - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Barium - Total	0.02	g/m <sup>3</sup>	Complies with MAV of 0.7	
	Calcium - Total	28.5	g/m <sup>3</sup>	Below GV of 100	
	Magnesium Hardness Calculation	18	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Total Hardness Calculation	89	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Calcium Hardness Calculation	71	g/m <sup>3</sup> CaCO <sub>3</sub>	Below GV of 100	
	Cadmium - Total	< 0.00006	g/m <sup>3</sup>	Complies with MAV of 0.004	
	Chloride	6.25	g/m <sup>3</sup>	Below GV of 250	
	Chromium - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.05	
	Copper - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 2	
	Mercury - Total **	< 0.0001	g/m <sup>3</sup>		
	Magnesium - Total	4.4	g/m <sup>3</sup>	Below GV of 100	
	Sodium - Total	10.6	g/m <sup>3</sup>	Below GV of 200	
	Nickel - Total	< 0.008	g/m <sup>3</sup>	Complies with MAV of 0.08	
	Lead - Total	< 0.001	g/m <sup>3</sup>	Complies with MAV of 0.01	
	Sulfate	12.6	g/m <sup>3</sup> SO <sub>4</sub>	Below GV of 250	
	Antimony - Total **	< 0.004	g/m <sup>3</sup>		

< is less than > is more than, g/m<sup>3</sup> is equivalent to mg/L and ppm, MAV - Maximum Acceptable Value. GV - Guideline Value

Notes: \*\* This test has been outsourced. Subcontracted reports can be supplied on request.

**Test Methodology:**

Test Code	Test	Methodology	Detection Limit
Alk.001	Alkalinity - Total	APHA 23rd Ed. 2320 B	1 g/m <sup>3</sup> CaCO <sub>3</sub>
As.079	Arsenic - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.001 g/m <sup>3</sup>
Ba.079	Barium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.001 g/m <sup>3</sup>
Ca.079	Calcium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.1 g/m <sup>3</sup>
Calc.003	Magnesium Hardness Calculation	Calculation: 4.118 x Magnesium	1 g/m <sup>3</sup> CaCO <sub>3</sub>
Calc.006	Total Hardness Calculation	Calculation: Calcium Hardness + Magnesium Hardness	1 g/m <sup>3</sup> CaCO <sub>3</sub>
Calc.013	Calcium Hardness Calculation	Calculation: 2.479 x Calcium	1 g/m <sup>3</sup> CaCO <sub>3</sub>
Cd.079	Cadmium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.00006 g/m <sup>3</sup>
Cl.002CG	Chloride	APHA 23rd Ed. 4110 B	0.1 g/m <sup>3</sup>
Cr.079	Chromium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.001 g/m <sup>3</sup>
Cu.079	Copper - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.001 g/m <sup>3</sup>
Hg.686	Mercury - Total	In house procedure based on US EPA 200.8, acid digestion.	g/m <sup>3</sup>
Mg.079	Magnesium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.1 g/m <sup>3</sup>
Na.079	Sodium - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.1 g/m <sup>3</sup>
Ni.079	Nickel - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion	0.008 g/m <sup>3</sup>
Pb.079	Lead - Total	APHA 23rd Ed. 3125 B, Nitric acid digestion (sum of 206Pb, 207Pb and 208Pb)	0.001 g/m <sup>3</sup>
S.002CG	Sulfate	APHA 23rd Ed. 4110 B	0.05 g/m <sup>3</sup> SO <sub>4</sub>
Sb.689	Antimony - Total	In house procedure based on US EPA 200.8, acid digestion.	0.004 g/m <sup>3</sup>

Test analysis was initiated between 18/07/2023 and 26/07/2023. For start dates of individual analyses please contact the laboratory.



Report released by

**Johan Bosch**

Date: 28 July 2023

Principal Analyst

**Key Technical Person:**

Johan Bosch

Nishani Thennakoon

This Laboratory is accredited by International Accreditation New Zealand.

Tests and sampling procedures have been performed in accordance with the conditions of our accreditation.

Where not supplied test methods, detection limits and uncertainties are available on request.

When samples are collected by the client or an agent of the client, results reported apply only to samples as received at the Laboratory.

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