

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-24-NC-031057-01	REPORT DATE	11/10/2024
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Attention Veolia Water Services (ANZ) Pty Ltd
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Copy to: QLDC Lab Results (lab.results@qldc.govt.nz), Soria
 (francisco.soria@veolia.com), Lado (maria.lado@veolia.com)

Contact for your orders: James Thornton	Order code: EUNZCH-00193078
Contract: Shotover WWTP	
Submission Reference: biosolids round 2 - Shotover WWTP Sludge	Purchase Order Number: 7300390040

SAMPLE CODE	817-2024-00115617
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Sample Name Shotover WWTP Sludge
Reception Date & Time: 02/10/2024 13:35
Analysis Started on: 02/10/2024
Product Type Sludge
Sampler(s) Veolia

Analysis Ending Date: 11/10/2024
Sampled Date & Time 02/10/2024 11:00
Sampling Purpose Monitoring

RESULTS
LOQ

②NW499	Arsenic - Total			
	Arsenic (As)	6.39	mg/kg	0.05
②NW504	Cadmium - Total			
	Cadmium (Cd)	0.34	mg/kg	0.01
②NW507	Chromium - Total			
	Chromium (Cr)	13.5	mg/kg	0.2
②NW509	Copper - Total			
	Copper (Cu)	209	mg/kg	0.3
③NU122	Dry Matter (DM)			
	Dry matter	18.7	%	0.1
②NW510	Iron - Total			
	Iron (Fe)	4070	mg/kg	3
②NW511	Lead - Total			
	Lead (Pb)	5.4	mg/kg	0.1
②NW515	Mercury - Total			
	Mercury (Hg)	0.3	mg/kg	0.1
②NW517	Nickel - Total			
	Nickel (Ni)	11.6	mg/kg	0.2
③NU012	pH			
	pH	6.0		1
②NU266	Phosphorus			
	Phosphorus	0.5	%	0.1
②NU278	Potassium			
	Potassium	0.2	%	0.1
②NW519	Potassium - Total			
	Potassium (K)	10200	mg/kg	10
②NU361	Total Nitrogen			

Food & Water Testing

	RESULTS		LOQ
② NU361 Total Nitrogen			
Total nitrogen	1.4	%	0.1
② NW330 Volatile Solids			
Volatile Solids	15	%	1
② NW528 Zinc - Total			
Zinc (Zn)	226	mg/kg	1

LIST OF METHODS			
NU012	pH: Internal Method, Electrometry [pH Electrode]	NU122	Dry Matter (DM): Internal Method, Gravimetry [Dried at 105°C]
NU266	Phosphorus: Internal Method, ICP-OES [Microwave digestion]	NU278	Potassium: Internal Method, ICP-OES [Microwave digestion]
NU361	Total Nitrogen: Internal Method, Combustion [Combustion elemental analyser: Thermal conductivity detection]	NW330	Volatile Solids: APHA Online Edition 2540 G
NW499	Arsenic - Total: APHA Online Edition 3125 B mod.	NW504	Cadmium - Total: APHA Online Edition 3125 B mod.
NW507	Chromium - Total: APHA Online Edition 3125 B mod.	NW509	Copper - Total: APHA Online Edition 3125 B mod.
NW510	Iron - Total: APHA Online Edition 3125 B mod.	NW511	Lead - Total: APHA Online Edition 3125 B mod.
NW515	Mercury - Total: APHA Online Edition 3125 B mod.	NW517	Nickel - Total: APHA Online Edition 3125 B mod.
NW519	Potassium - Total: APHA Online Edition 3125 B mod.	NW528	Zinc - Total: APHA Online Edition 3125 B mod.

Signature



David Hoekendijk Team Lead KTP

EXPLANATORY NOTE	
<p>① Test is not accredited</p> <p>② Test is subcontracted within Eurofins group and is accredited</p> <p>③ Test is subcontracted within Eurofins group and is not accredited</p> <p>④ Test is subcontracted outside Eurofins group and is accredited</p> <p>⑤ Test is subcontracted outside Eurofins group and is not accredited</p> <p>⑥ Test result is provided by the customer and is not accredited</p> <p>⑦ Tested at the sampling point by Eurofins and is not accredited</p> <p>⑧ Tested at the sampling point by Eurofins and is accredited</p> <p>⑨ Test is RLP accredited</p> <p>⑩ Test is subcontracted within Eurofins group and is RLP accredited</p>	<p>N/A means Not Applicable</p> <p>Not Detected means not detected at or above the Limit of Quantification (LOQ)</p> <p>LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit</p> <p>✘ (Unsatisfactory) means does not meet the specification</p> <p>✓ (Satisfactory) means meets the specification</p> <p>MAV means Maximum Allowable Value</p>

Food & Water Testing

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 43 Detroit Drive, Rolleston, Christchurch, NEW ZEALAND.

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END OF REPORT