

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE		AR-24-NC-030035-01	REPORT DATE	01/10/2024
Attention	Veolia Water Services (ANZ) Pty Ltd NZ Queenstown Lab Results 74 Glenda Drive Frankton 9300 Queenstown NEW ZEALAND			
Phone	03 450 9240		Copy to: QLDC Lab Results (lab.results@qldc.govt.nz), Soria (francisco.soria@veolia.com), Lado (maria.lado@veolia.com)	
Email	nz.queenstown.lab-results.all.groups@veolia.com			

Contact for your orders:	James Thornton	Order code:	EUNZCH-00192033
Contract:	Shotover WWTP		
Submission Reference:	Round 2 Biosolids analysis- Project Pure	Purchase Order Number:	7300390040

SAMPLE CODE	817-2024-00111801		
Sample Name	Project Pure WWTP Sludge		
Reception Date & Time:	23/09/2024 14:21		
Analysis Started on:	23/09/2024	Analysis Ending Date:	01/10/2024
Product Type	Sludge	Sampled Date & Time	22/09/2024 15:00
Sampler(s)	Janie	Sampling Purpose	Monitoring
Sampled By Eurofins	No		

RESULTS		LOQ	
②NW499	Arsenic - Total		
	Arsenic (As)	3.21	0.05
②NW504	Cadmium - Total		
	Cadmium (Cd)	0.49	0.01
②NW507	Chromium - Total		
	Chromium (Cr)	12.9	0.2
②NW509	Copper - Total		
	Copper (Cu)	157	0.3
③NU122	Dry Matter (DM)		
	Dry matter	18.8	0.1
③ZM0VI	Enumeration (MPN) of Escherichia coli		
	Escherichia coli	>1100	3
②NW510	Iron - Total		
	Iron (Fe)	2620	3
②NW511	Lead - Total		
	Lead (Pb)	5.7	0.1
②NW515	Mercury - Total		
	Mercury (Hg)	0.7	0.1
②NW517	Nickel - Total		
	Nickel (Ni)	10.2	0.2
③NU012	pH		
	pH	6.4	1
②NU266	Phosphorus		
	Phosphorus	0.3	0.1
②NU278	Potassium		
	Potassium	0.1	0.1

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	RESULTS	LOQ
②NW519 Potassium - Total		
Potassium (K)	7480	mg/kg 10
②NU361 Total Nitrogen		
Total nitrogen	1.4	% 0.1
②NW330 Volatile Solids		
Volatile Solids	15	% 1
②NW528 Zinc - Total		
Zinc (Zn)	336	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.
ZM0VI Escherichia coli E (Sludge) [NZ] <3 >1 100 /MPN/g (1-3) LTB Broth-M: US-EPA 1680 mod.	

Signature



David Hoekendijk Team Lead KTP

EXPLANATORY NOTE

- ① Test is not accredited
- ② Test is subcontracted within Eurofins group and is accredited
- ③ Test is subcontracted within Eurofins group and is not accredited
- ④ Test is subcontracted outside Eurofins group and is accredited
- ⑤ Test is subcontracted outside Eurofins group and is not accredited
- ⑥ Test result is provided by the customer and is not accredited
- ⑦ Tested at the sampling point by Eurofins and is not accredited
- ⑧ Tested at the sampling point by Eurofins and is accredited
- ⑨ Test is RLP accredited
- ⑩ Test is subcontracted within Eurofins group and is RLP accredited

N/A means Not Applicable

Not Detected means not detected at or above the Limit of Quantification (LOQ)

LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit

✗ (Unsatisfactory) means does not meet the specification

✓ (Satisfactory) means meets the specification

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The Customer acknowledges and accepts that: (a) where Eurofins is not responsible for sampling, the test result(s) in this report apply only to the sample as received. Customer is solely responsible for the sampling process and warrants that the sample provided to Eurofins is representative of the lot / batch from which the samples were drawn; and (b) Eurofins expresses no opinion and accepts no liability in respect of the Customer's production process or homogeneity of the product.

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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.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

Eurofins may subcontract the performance of part or all of the Services to a third party and the Customer authorises the release of all information necessary to the third party for the provision of the Services.

All samples become the property of Eurofins to the extent necessary for the performance of the Services.

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If the Customer pays for storage of the samples Eurofins will take commercially reasonable steps to store the samples for the agreed period in terms of industry practice.

The Eurofins water sampling service follows methodology based on AS/NZS 5667 and / or best practice to collect and transport samples that are fit for the purpose of analytical testing. The laboratory is not responsible for sampling activities unless explicitly indicated by the statement "Sampled by Eurofins" on the report for water samples.

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END OF REPORT