



### CERTIFICATE OF ANALYSIS

Client : Killian Farrell (Deputy Manager)  
Mayo County Council, Derrinnumera Landfill  
Derrinnumera  
Newport  
Co. Mayo

Report No. : 433070  
Date of Receipt : 27/11/2020  
Start Date of Analysis : 27/11/2020  
Date of Report : 21/12/2020  
Order Number : 5658429  
Sample taken by : Client

Lab No	Sample Description	Test	Ref.	Result	Units
1106449	BH-02 Claremorris Historic landfill	pH	I,R	6.7	pH Units
		Conductivity @20C	I,R	903	uS/cm
		Copper, total	I,R	3	ug/l
		Sodium, total	I,R	15	mg/l
		Chloride	I,R	28.9	mg/l
		Total dissolved solids	R	500	mg/l
		Temperature	R	16.9@lab	°C
		Iron, total	I,R	2897	ug/l
		Potassium, total	I,R	11	mg/l
		Cyanide (Total)	S,	<0.009	mg/l
		Magnesium, total	I,R	12	mg/l
		Sulphate	I,R	62.9	mg/l
		Ammonia as N	I,R	3.2	mg/l
		Arsenic, total	I,R	<0.6	ug/l
		Manganese, total	I,R	385	ug/l
		Zinc, total	I,R	121	ug/l
		Chromium, total	I,R	<0.6	ug/l
		Calcium, total	I,R	177	mg/l
		Boron	I,R	34	ug/l
		Nickel, total	I,R	2	ug/l
		Lead, total	I,R	3	ug/l
		Cadmium, total	I,R	<0.6	ug/l
		TOC	I,R	18.0	mg/l
Fluoride by ISE	I,R	<0.1	mg/l		
Molybdate Reactive Phosphorus (MRP unfiltered) as PO4-P	I,R	2.09	mg/l		
Mercury, total (in water)	S,	0.01	ug/l		



Approved by:

**AnnMarie Nee**  
**Environmental Services Administrator**

See below for test specifications and accreditation status.  
This report only relates to items tested and shall not be reproduced but in full with the permission of CLS.  
est. is an estimated count.  
CLS will test food, water and swabs samples within 24 hours of receipt.  
Where samples have been taken by the Client, results apply to the samples as received.



Complete Laboratory Solutions

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In-House Test	Specification	Measurement of Uncertainty	17025	GMP/FDA*	ISO**
pH	CLS 26	+/- 0.133 pH units	Yes	No	Yes
Conductivity @20C	CLS 67	+/- 4.92 %	Yes	No	Yes
Copper, total	ICP-MS CLS 129	+/- 11.28 %	Yes	No	Yes
Sodium, total	ICP-MS CLS129	+/- 11.62 %	Yes	No	Yes
Chloride	Konelab CLS 36	+/- 12.10 %	Yes	No	Yes
Total dissolved solids	CLS 68	0	No	No	Yes
Temperature	Probe	0	No	No	Yes
Iron, total	ICP-MS CLS129	+/- 10.28 %	Yes	No	Yes
Potassium, total	ICP-MS CLS129	+/-0.53@5mg/l	Yes	No	Yes
Magnesium, total	ICP-MS CLS129	+/-0.74@4mg/l	Yes	No	Yes
Sulphate	Konelab CLS 88	+/- 7.29 %	Yes	No	Yes
Ammonia as N	Konelab CLS 40	+/- 5.13 %	Yes	No	Yes
Arsenic, total	ICP-MS CLS 129	+/- 9.34 %	Yes	No	Yes
Manganese, total	ICP-MS CLS129	+/- 14.53 %	Yes	No	Yes
Zinc, total	ICP-MS CLS 129	+/- 9.38 %	Yes	No	Yes
Chromium, total	ICP-MS CLS129	+/- 8.38 %	Yes	No	Yes
Calcium, total	ICP-MS CLS129	+/-5.5@30mg/l	Yes	No	Yes
Boron	ICP-MS CLS129	+/-15@200ug/l	Yes	No	Yes
Nickel, total	ICP-MS CLS129	+/- 7.91 %	Yes	No	Yes
Lead, total	ICP-MS CLS 129	+/-20@100ug/l	Yes	No	Yes
Cadmium, total	ICP-MS CLS 129	+/- 10.42 %	Yes	No	Yes
TOC	CLS 150	+/- 18.08 %	Yes	No	Yes
Fluoride by ISE	CLS 182	0	Yes	No	Yes
Molybdate Reactive Phosphorus (MRP unfiltered) as PO4-P	Konelab CLS 35	+/- 0.04 @ 0.3 mg/l PO4	Yes	No	Yes

\*Analysis carried out in a GMP approved, FDA inspected facility (MedPharma site only).

\*\*Laboratory Analysis, Sampling, Food Safety Monitoring and Analysts on Contract are all ISO 9001 certified.

Lab No	Sample ID	Sample Condition on Receipt	Sampling Date
1106449	BH-02 Claremorris Historic landfill	Good condition	26/11/2020



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