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Analytical Report Number : 23-29868

Replaces Analytical Report Number: 23-29868, issue no. 1
Additional analysis undertaken.
UBM results for both samples added by laboratory.

Project / Site name:	Land Remediation	**Samples received on:**	21/04/2023
Your job number:		**Samples instructed on/ Analysis started on:**	21/04/2023
Your order number:		**Analysis completed by:**	04/05/2023
Report Issue Number:	2	**Report issued on:**	25/05/2023
Samples Analysed:	2 soil samples		

[redacted]

Joanna Wawrzeczko
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-29868
Project / Site name: Land Remediation

Lab Sample Number				2656583	2656584
Sample Reference				1	2
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.30
Date Sampled				21/04/2023	21/04/2023
Time Taken				0926	0935
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	5	6
Moisture Content	%	0.01	NONE	35	38
Total mass of sample received	kg	0.001	NONE	0.6	0.6
Heavy Metals / Metalloids					
Lead (aqua regia extractable)	mg/kg	1	MCERTS	130	210
Stomach Phase					
Lead (Bioaccessible)	mg/kg	0.1	NONE	< 0.1	0.1
Lead Bioaccessible Fraction	%	-	NONE	< 1.0	< 1.0
Stomach and Intestine Phase					
Lead (Bioaccessible)	mg/kg	0.1	NONE	0.3	< 0.1
Lead Bioaccessible Fraction	%	-	NONE	< 1.0	< 1.0
Bioaccessibility Summary Data (Maximum value) Stomach Phase (S) or Stomach and Intestine Phase (SI)					
Lead Bioaccessible Fraction	%	-	NONE	< 1.0 %	< 1.0 %

U/S = Unsuitable Sample I/S = Insufficient Sample

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Analytical Report Number : 23-29868
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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2656583	1	None Supplied	0.3	Brown clay and sand with gravel and vegetation.
2656584	2	None Supplied	0.3	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 23-29868
Project / Site name: Land Remediation

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
BARGE-UBM Bioaccessibility Test for Metals	Bioaccessibility extraction method for metals. Test portion sieved to < 250 um. All analysis including aqua regia extractable are determined on this test portion. Material > 250um reported as oversize (stones).	ISO 17924: 2018 Soil quality for the assessment of human exposure from ingestion of soil and soil material	UBM-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.