SOCOTEC

Environmental Chemistry

Certificate of Analysis

Client: Veolia ES (UK) Ltd

Project: 25013325

Quote: BEC240234209 V10.1

Project Ref: Scheduled Samples 01-2025

Site: Stoney Hill Discharge (Week 3)

[redacted]

[redacted]

No. Samples Received: 1

Date Received: 25/01/2025

Analysis Completed: 07/02/2025

Date Issued: 07/02/2025

Report Type: Version 01

This report supersedes any versions previously issued by the laboratory

[redacted]

Project Number: 25013325

Client: Veolia ES (UK) Ltd
Date Issued: 07/02/2025
Project Name: Scheduled Samples 01-2025 - Stoney Hill Discharge (Week 3)

Samples Analysed

Text ID	Sample Reference	Sampling Date	Sample Type	Sample Description
25013325-001	Leachate Discharge	23/01/2025 11:00:00	WATER	Landfill Leachate

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Analysis Results

Method Code	Analysis	MDL	Accred.	SOCOTEC Sample ID: 25013325-001 Sampling Date: 23/01/2025 11:00 Customer ID: Leachate Discharge
Visual Exam for TPH	Visual TPH	-	N	Absent
PHCONDW	pH	1 pH units	U	8.0
WSLM11	COD (Settled)	5 mg/l	U	286
WSLM10	Total Suspended Solids	5 mg/l	U	24*
KONENS	Ammoniacal Nitrogen as N	0.01 mg/l	U	196
SFAPI	Phenol Index	0.05 mg/l	U	<0.05
SFAPI	Sulphide as S	0.02 mg/l	U	0.02
ICPWATVART (Total)	Aluminium as Al	0.01 mg/l	U	0.01
ICPMSWT (Total)	Total Chromium as Cr	0.001 mg/l	U	<0.010 D
ICPMSWT (Total)	Copper as Cu	0.001 mg/l	U	<0.010 D
ICPWATVART (Total)	Iron as Fe	0.01 mg/l	U	2.25
ICPMSWT (Total)	Lead as Pb	0.0002 mg/l	U	<0.0020 D
ICPMSWT (Total)	Nickel as Ni	0.001 mg/l	U	0.018
ICPWATVART (Total)	Phosphorus as P	0.1 mg/l	N	<0.1
ICPWATVART (Total)	Total Sulphur as SO4	3 mg/l	U	12
ICPMSWT (Total)	Zinc as Zn	0.002 mg/l	U	0.043
DISGAS	Dissolved Methane	0.02 mg/l	N	0.03

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Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

Method Code	Method Description	Analysis Method
DISGAS	Dissolved Methane	Unfiltered
ICPMSWT (Total)	Chromium (Tot.) in Water by ICPMS	Unfiltered
ICPMSWT (Total)	Copper (Tot.) in Water by ICPMS	Unfiltered
ICPMSWT (Total)	Lead (Tot.) in Water by ICPMS	Unfiltered
ICPMSWT (Total)	Nickel (Tot.) in Water by ICPMS	Unfiltered
ICPMSWT (Total)	Zinc (Tot.) in Water by ICPMS	Unfiltered
ICPWATVART (Total)	Aluminium (Tot.) in Water by ICPOES	Unfiltered
ICPWATVART (Total)	Iron (Tot.) in Water by ICPOES	Unfiltered
ICPWATVART (Total)	Phosphorus (Tot.) in Water by ICPOES	Unfiltered
ICPWATVART (Total)	Total Sulphur as SO4 (Tot.) in Water	Unfiltered
KONENS	Ammoniacal Nitrogen as N	Filtered
PHCONDW	pH	Unfiltered
SFAPI	Phenol Index (Total) by SFA	Unfiltered
SFAPI	Sulphide by SFA	Unfiltered
Visual Exam for TPH	TPH (Visual Exam)	Unfiltered
WSLM10	TSS: Total Suspended Solids	Unfiltered
WSLM11	COD: Chemical Oxygen Demand (Settled)	Unfiltered

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

Letter	Note
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

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HWOL Acronym Key

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any accreditation marked with ^ signify results are reported on a dry weight basis of 105 ° C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35° C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any results marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by another SOCOTEC department or by an external subcontracted laboratory. Further information is available upon request.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis