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Socotec
Geotechnical House
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CH5 2NY

Attention: Chris Evans

CERTIFICATE OF ANALYSIS

Date of report Generation:	11 November 2020
Customer:	Socotec
Sample Delivery Group (SDG):	201022-67
Your Reference:	R9072
Location:	UPM Shotton
Report No:	575081

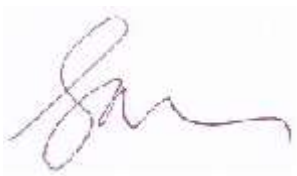
We received 1 sample on Wednesday October 21, 2020 and 1 of these samples were scheduled for analysis which was completed on Wednesday November 11, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23085852	W1			21/10/2020

Only received samples which have had analysis scheduled will be shown on the following pages.

Validated

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

Results Legend

X Test

N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	23085852
			Customer Sample Reference	W1
			AGS Reference	
			Depth (m)	
			Container	0.5l glass bottle (ALE227) / 1000ml glass bottle (ALE220) / 250ml Amber Gl. PTFE/PE (ALE219) / HNO3 Unfiltered (ALE204) / Vial (ALE297)
			Sample Type	TE / TE / TE / TE / TE
4 - Bromodiphenyl ether (BDE-3)(W)*	All	NDPs: 0 Tests: 1			X		
Chloralkanes C10 - C13 by GCMS	All	NDPs: 0 Tests: 1		X			
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 1	X				
Mercury Dissolved	All	NDPs: 0 Tests: 1	X				
Mercury Unfiltered	All	NDPs: 0 Tests: 1				X	
Organotins in Aqueous Samples	All	NDPs: 0 Tests: 1		X			
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 1			X		
Pesticides (Suite I) by GCMS	All	NDPs: 0 Tests: 1	X				
Pesticides (Suite II) by GCMS	All	NDPs: 0 Tests: 1	X				
Pesticides (Suite III) by GCMS	All	NDPs: 0 Tests: 1	X				
Phenols and ethoxylates in Liquids	All	NDPs: 0 Tests: 1	X				
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 1	X				
Total Metals by ICP-MS	All	NDPs: 0 Tests: 1				X	
VOC MS (W)	All	NDPs: 0 Tests: 1					X

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+$@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	-
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	-
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
4 - Bromodiphenyl Ether (BDE-3)	<0.1 µg/l	SUB	<0.5
Chloroalkanes (C10-C13)*	<0.4 µg/l	SUB	<0.4
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 2
Cadmium (tot.unfilt)	<0.5 µg/l	TM152	<0.5
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.1 2 #
Mercury (tot.unfilt)	<0.02 µg/l	TM183	<0.02 #
Dibutyl tin	<5 ng/l	TM328	<5
Tributyl tin	<1 ng/l	TM328	<1
Tetrabutyl tin	<2 ng/l	TM328	<2
Triphenyl tin	<1 ng/l	TM328	<1
Surrogate	%	TM328	32.8
Trifluralin	<0.01 µg/l	TM343	<0.02
alpha-HCH	<0.01 µg/l	TM343	<0.02
gamma-HCH (Lindane)	<0.01 µg/l	TM343	<0.02
Heptachlor	<0.01 µg/l	TM343	<0.02
Aldrin	<0.01 µg/l	TM343	<0.02
beta-HCH	<0.01 µg/l	TM343	<0.02
Isodrin	<0.01 µg/l	TM343	<0.02
delta-HCH	<0.01 µg/l	TM343	<0.02
Heptachlor epoxide	<0.01 µg/l	TM343	<0.02
o,p'-DDE	<0.01 µg/l	TM343	<0.02
Endosulphan I	<0.01 µg/l	TM343	<0.02
trans-Chlordane	<0.01 µg/l	TM343	<0.02
cis-Chlordane	<0.01 µg/l	TM343	<0.02
p,p'-DDE	<0.01 µg/l	TM343	<0.02
Dieldrin	<0.01 µg/l	TM343	<0.02
o,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.02
Endrin	<0.01 µg/l	TM343	<0.02
o,p'-DDT	<0.01 µg/l	TM343	<0.02
p,p'-DDD (TDE)	<0.01 µg/l	TM343	<0.02
Endosulphan II	<0.02 µg/l	TM343	<0.04
p,p'-DDT	<0.01 µg/l	TM343	<0.02
o,p'-Methoxychlor	<0.01 µg/l	TM343	<0.02

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			W1	.	Trade Effluent (TE)	21/10/2020	.	21/10/2020	201022-67	23085852	
p,p'-Methoxychlor	<0.01 µg/l	TM343	<0.02								
Endosulphan Sulphate	<0.02 µg/l	TM343	<0.04								
Permethrin I	<0.01 µg/l	TM343	<0.02								
Permethrin II	<0.01 µg/l	TM343	<0.02								
1,3,5-Trichlorobenzene	<0.01 µg/l	TM344	<0.01								
Hexachlorobutadiene	<0.01 µg/l	TM344	<0.01								
1,2,4-Trichlorobenzene	<0.01 µg/l	TM344	<0.01								
1,2,3-Trichlorobenzene	<0.01 µg/l	TM344	<0.01								
Dichlorvos	<0.01 µg/l	TM344	<0.01								
Dichlobenil	<0.01 µg/l	TM344	<0.01								
Mevinphos	<0.01 µg/l	TM344	<0.01								
Tecnazene	<0.01 µg/l	TM344	<0.01								
Hexachlorobenzene	<0.01 µg/l	TM344	<0.01								
Demeton-S-methyl	<0.01 µg/l	TM344	<0.01								
Phorate	<0.01 µg/l	TM344	<0.01								
Diazinon	<0.01 µg/l	TM344	<0.01								
Triallate	<0.01 µg/l	TM344	<0.01								
Atrazine	<0.01 µg/l	TM344	<0.01								
Simazine	<0.01 µg/l	TM344	<0.01								
Disulfoton	<0.01 µg/l	TM344	<0.01								
Propetamphos	<0.01 µg/l	TM344	<0.01								
Chlorpyriphos-methyl	<0.01 µg/l	TM344	<0.01								
Dimethoate	<0.01 µg/l	TM344	<0.01								
Pirimiphos-methyl	<0.01 µg/l	TM344	<0.01								
Chlorpyriphos	<0.01 µg/l	TM344	<0.01								
Methyl Parathion	<0.01 µg/l	TM344	<0.01								
Malathion	<0.01 µg/l	TM344	<0.01								
Fenthion	<0.01 µg/l	TM344	<0.01								
Fenitrothion	<0.01 µg/l	TM344	<0.01								
Triadimefon	<0.01 µg/l	TM344	<0.01								
Pendimethalin	<0.01 µg/l	TM344	0.102								
Parathion	<0.01 µg/l	TM344	<0.01								
Chlorfenvinphos	<0.01 µg/l	TM344	<0.01								

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	.
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	.
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
trans-Chlordane	<0.01 µg/l	TM344	<0.01
cis-Chlordane	<0.01 µg/l	TM344	<0.01
Ethion	<0.01 µg/l	TM344	<0.01
Carbophenothion	<0.01 µg/l	TM344	<0.01
Triazophos	<0.01 µg/l	TM344	<0.01
Phosalone	<0.01 µg/l	TM344	<0.01
Azinphos methyl	<0.02 µg/l	TM344	<0.02
Azinphos ethyl	<0.02 µg/l	TM344	<0.02
Etridiazole	<0.01 µg/l	TM345	<0.01
Pentachlorobenzene	<0.01 µg/l	TM345	<0.01
Tributylphosphate	<0.01 µg/l	TM345	<0.1
Propachlor	<0.01 µg/l	TM345	<0.01
Quintozene (PCNB)	<0.01 µg/l	TM345	<0.01
Omethoate	<0.01 µg/l	TM345	<0.01
Propazine	<0.01 µg/l	TM345	<0.01
Propyzamide	<0.01 µg/l	TM345	<0.01
Alachlor	<0.01 µg/l	TM345	<0.01
Prometryn	<0.01 µg/l	TM345	<0.01
Telodrin	<0.01 µg/l	TM345	<0.01
Terbutryn	<0.01 µg/l	TM345	<0.01
Chlorothalonil	<0.01 µg/l	TM345	<0.2
Etrimphos	<0.01 µg/l	TM345	<0.01
Metazachlor	<0.01 µg/l	TM345	<0.01
Cyanazine	<0.01 µg/l	TM345	<0.01
Trietazine	<0.01 µg/l	TM345	<0.01
Coumaphos	<0.01 µg/l	TM345	<0.01
Phosphamidon I	<0.01 µg/l	TM345	<0.01
Phosphamidon II	<0.01 µg/l	TM345	<0.01
4-Nonylphenol monoethoxylate (SE)	<0.1 µg/l	TM357	<0.1
4-Nonylphenol diethoxylate (SE)	<0.1 µg/l	TM357	<0.1
4-Octylphenol (sum of isomers) (SE)	<0.1 µg/l	TM357	<0.1
4-Nonylphenol (sum of isomers) (SE)	<0.1 µg/l	TM357	<0.1

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

PAH Spec MS - Aqueous (W)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+$@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	.
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	.
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
Naphthalene (aq)	<0.01 µg/l	TM178	0.0134
Acenaphthene (aq)	<0.005 µg/l	TM178	<0.005
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.005
Fluoranthene (aq)	<0.005 µg/l	TM178	<0.005
Anthracene (aq)	<0.005 µg/l	TM178	<0.005
Phenanthrene (aq)	<0.005 µg/l	TM178	<0.005
Fluorene (aq)	<0.005 µg/l	TM178	<0.005
Chrysene (aq)	<0.005 µg/l	TM178	<0.005
Pyrene (aq)	<0.005 µg/l	TM178	<0.005
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.005
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.005
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	<0.002
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.005
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.005
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.005
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.082

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	-
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	-
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<4
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<4
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<4
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<4
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<4
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<4
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<4
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<4
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<4
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<4
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<4
2-Chlorophenol (aq)	<1 µg/l	TM176	<4
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<4
2-Methylphenol (aq)	<1 µg/l	TM176	<4
2-Nitroaniline (aq)	<1 µg/l	TM176	<4
2-Nitrophenol (aq)	<1 µg/l	TM176	<4
3-Nitroaniline (aq)	<1 µg/l	TM176	<4
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<4
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<4
4-Chloroaniline (aq)	<1 µg/l	TM176	<4
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<4
4-Methylphenol (aq)	<1 µg/l	TM176	<4
4-Nitroaniline (aq)	<1 µg/l	TM176	<4
4-Nitrophenol (aq)	<1 µg/l	TM176	<4
Azobenzene (aq)	<1 µg/l	TM176	<4
Acenaphthylene (aq)	<1 µg/l	TM176	<4
Acenaphthene (aq)	<1 µg/l	TM176	<4
Anthracene (aq)	<1 µg/l	TM176	<4
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<4
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<4
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<8
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<4
Benzo(a)anthracene (aq)	<1 µg/l	TM176	<4

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			W1	.	Trade Effluent (TE)	21/10/2020	.	21/10/2020	201022-67	23085852	
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176	<4								
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176	<4								
Benzo(a)pyrene (aq)	<1 µg/l	TM176	<4								
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176	<4								
Carbazole (aq)	<1 µg/l	TM176	<4								
Chrysene (aq)	<1 µg/l	TM176	<4								
Dibenzofuran (aq)	<1 µg/l	TM176	<4								
n-Dibutyl phthalate (aq)	<1 µg/l	TM176	<4								
Diethyl phthalate (aq)	<1 µg/l	TM176	<4								
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176	<4								
Dimethyl phthalate (aq)	<1 µg/l	TM176	<4								
n-Dioctyl phthalate (aq)	<5 µg/l	TM176	<20								
Fluoranthene (aq)	<1 µg/l	TM176	<4								
Fluorene (aq)	<1 µg/l	TM176	<4								
Hexachlorobenzene (aq)	<1 µg/l	TM176	<4								
Hexachlorobutadiene (aq)	<1 µg/l	TM176	<4								
Pentachlorophenol (aq)	<1 µg/l	TM176	<4								
Phenol (aq)	<1 µg/l	TM176	<4								
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176	<4								
Hexachloroethane (aq)	<1 µg/l	TM176	<4								
Nitrobenzene (aq)	<1 µg/l	TM176	<4								
Naphthalene (aq)	<1 µg/l	TM176	<4								
Isophorone (aq)	<1 µg/l	TM176	<4								
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176	<4								
Phenanthrene (aq)	<1 µg/l	TM176	<4								
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176	<4								
Pyrene (aq)	<1 µg/l	TM176	<4								

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+$@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	-
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	-
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
Dibromofluoromethane**	%	TM208	115
Toluene-d8**	%	TM208	101
4-Bromofluorobenzene**	%	TM208	100
Dichlorodifluoromethane	<1 µg/l	TM208	<1 #
Chloromethane	<1 µg/l	TM208	<1 #
Vinyl chloride	<1 µg/l	TM208	<1 #
Bromomethane	<1 µg/l	TM208	<1 #
Chloroethane	<1 µg/l	TM208	<1 #
Trichlorofluoromethane	<1 µg/l	TM208	<1 #
1,1-Dichloroethene	<1 µg/l	TM208	<1 #
Carbon disulphide	<1 µg/l	TM208	<1 #
Dichloromethane	<3 µg/l	TM208	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208	<1 #
trans-1,2-Dichloroethene	<1 µg/l	TM208	<1 #
1,1-Dichloroethane	<1 µg/l	TM208	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208	<1 #
2,2-Dichloropropane	<1 µg/l	TM208	<1
Bromochloromethane	<1 µg/l	TM208	<1 #
Chloroform	<1 µg/l	TM208	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208	<1 #
1,1-Dichloropropene	<1 µg/l	TM208	<1 #
Carbontetrachloride	<1 µg/l	TM208	<1 #
1,2-Dichloroethane	<1 µg/l	TM208	<1 #
Benzene	<1 µg/l	TM208	<1 #
Trichloroethene	<1 µg/l	TM208	<1 #
1,2-Dichloropropane	<1 µg/l	TM208	<1 #
Dibromomethane	<1 µg/l	TM208	<1 #
Bromodichloromethane	<1 µg/l	TM208	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208	<1 #
Toluene	<1 µg/l	TM208	<1 #
trans-1,3-Dichloropropene	<1 µg/l	TM208	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208	<1 #
1,3-Dichloropropane	<1 µg/l	TM208	<1 #

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+§@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	.
Sample Type	Trade Effluent (TE)
Date Sampled	21/10/2020
Sample Time	.
Date Received	21/10/2020
SDG Ref	201022-67
Lab Sample No.(s)	23085852
AGS Reference	

Component	LOD/Units	Method	
Tetrachloroethene	<1 µg/l	TM208	<1 #
Dibromochloromethane	<1 µg/l	TM208	<1 #
1,2-Dibromoethane	<1 µg/l	TM208	<1 #
Chlorobenzene	<1 µg/l	TM208	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208	<1 #
Ethylbenzene	<1 µg/l	TM208	<1 #
m,p-Xylene	<1 µg/l	TM208	<1 #
o-Xylene	<1 µg/l	TM208	<1 #
Styrene	<1 µg/l	TM208	<1 #
Bromoform	<1 µg/l	TM208	<1 #
Isopropylbenzene	<1 µg/l	TM208	<1 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208	<1 #
1,2,3-Trichloropropane	<1 µg/l	TM208	<1 #
Bromobenzene	<1 µg/l	TM208	<1 #
Propylbenzene	<1 µg/l	TM208	<1 #
2-Chlorotoluene	<1 µg/l	TM208	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208	<1 #
4-Chlorotoluene	<1 µg/l	TM208	<1 #
tert-Butylbenzene	<1 µg/l	TM208	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208	<1 #
sec-Butylbenzene	<1 µg/l	TM208	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208	<1 #
1,3-Dichlorobenzene	<1 µg/l	TM208	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208	<1 #
n-Butylbenzene	<1 µg/l	TM208	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208	<1 #
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208	<1 #
Hexachlorobutadiene	<1 µg/l	TM208	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208	<1 #
Naphthalene	<1 µg/l	TM208	<1 #
1,2,3-Trichlorobenzene	<1 µg/l	TM208	<1 #
1,3,5-Trichlorobenzene	<1 µg/l	TM208	<1

Table of Results - Appendix

Method No	Reference	Description
SUB		Subcontracted Test
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM328		
TM343	EPA 8270D - Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM344	EPA 8270D – Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of selected pesticides (Suite II) by GCMS
TM345	EPA 8270D – Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of selected pesticides (Suite III) by GCMS
TM357		Determination of Specific Phenols and their Ethoxylates in Liquids by GC/MS/MS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	201022-67	**Client Reference:**	R9072	**Report Number:**	575081
Location:	UPM Shotton	**Order Number:**	R5246	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	23085852
Customer Sample Ref.	W1
AGS Ref.	
Depth	
Type	Trade Effluent
4 - Bromodiphenyl ether (BDE-3)(W)*	11-Nov-2020
Chloralkanes C10 - C13 by GCMS	30-Oct-2020
Dissolved Metals by ICP-MS	29-Oct-2020
Mercury Dissolved	28-Oct-2020
Mercury Unfiltered	25-Oct-2020
Organotins in Aqueous Samples	31-Oct-2020
PAH Spec MS - Aqueous (W)	27-Oct-2020
Pesticides (Suite I) by GCMS	28-Oct-2020
Pesticides (Suite II) by GCMS	31-Oct-2020
Pesticides (Suite III) by GCMS	29-Oct-2020
Phenols and ethoxylates in Liquids	27-Oct-2020
SVOC MS (W) - Aqueous	26-Oct-2020
Total Metals by ICP-MS	27-Oct-2020
VOC MS (W)	23-Oct-2020

CERTIFICATE OF ANALYSIS

Work Order	: **PR20A5485**	Issue Date	: 30-Oct-2020
Customer	: **ALS Life Sciences Ltd**	Laboratory	: ALS Czech Republic, s.r.o.
Contact	: ALS Hawarden Reporting	Contact	: Client Service
Address	: Unit 7-8 Hawarden Business Park Manor Road, Hawarden CH5 3US Deeside United Kingdom	Address	: Na Harfe 336/9 Prague 9 - Vysocany 190 00 Czech Republic
E-mail	: euhdnsubconresults@ALSGlobal.com	E-mail	: customer.support@alsglobal.com
Telephone	: ----	Telephone	: +420 226 226 228
Project	: 201022-67	Page	: 1 of 2
Order number	: ----	Date Samples Received	: 26-Oct-2020
		Quote number	: PR2018ALSAL-GB0004 (CZ-256-18-0022)
Site	: ----	Date of test	: 27-Oct-2020 - 30-Oct-2020
Sampled by	: client	QC Level	: ALS CR Standard Quality Control Schedule

General Comments

This report shall not be reproduced except in full, without prior written approval from the laboratory.
The laboratory declares that the test results relate only to the listed samples. If the section "Sampled by" of the Certificate of analysis states: "Sampled by Customer" then the results relate to the sample as received.

Responsible for accuracy

Testing Laboratory No. 1163
Accredited by CAI according to
CSN EN ISO/IEC 17025:2018

Signatories		*Position*
Zdeněk Jirák		Environmental Business Unit Manager

Analytical Results

Sub-Matrix: **EFFLUENT**				Client sample ID	**23097237 W1**		**----**		**----**	
				Laboratory sample ID	*PR20A5485-001*		----		----	
				Client sampling date / time	23-Oct-2020		----		----	
Parameter	*Method*	*LOR*	*Unit*	**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Chlorinated Hydrocarbons									
Chlorinated Alkanes C10-C13	W-CLAGMS01	0.40	µg/L	<0.40	----	**----**	----	**----**	----

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor k = 2, representing 95% confidence level.
Key: LOR = Limit of reporting; MU = Measurement Uncertainty. The MU does not include sampling uncertainty.

The end of result part of the certificate of analysis

Brief Method Summaries

Analytical Methods	*Method Descriptions*
Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00	
W-CLAGMS01	CZ_SOP_D06_03_192.A - (CSN EN ISO 12010) Determination of chlorinated alkanes by gas chromatography method with MS/MS detection

A `*` symbol preceding any method indicates laboratory or subcontractor non-accredited test. In the case when a procedure belonging to an accredited method was used for non-accredited matrix, would apply that the reported results are non-accredited. Please refer to General Comment section on front page for information. If the report contains subcontracted analysis, those are made in a subcontracted laboratory outside the laboratories ALS Czech Republic, s.r.o.
The calculation methods of summation parameters are available on request in the client service.

Certificate of Analysis

Report No.:	**20-95730-1**
Issue No.:	**1**
Date of Issue	**10/11/2020**
Customer Details:	ALS Life Sciences Limited, Unit7-8, Hawarden Business Park, Manor Road, Hawarden, Deeside, Flintshire, CH5 3US
Customer Contact:	Carrie Foster
Customer Order No.:	201022-67
Customer Reference:	201022-67
Quotation Reference:	200811/04
Description:	1 water sample
Date Received:	26/10/2020
Date Started:	30/10/2020
Date Completed:	10/11/2020
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None

Approved By: **Matthew Hickson, Laboratory Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Results Summary

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

Customer Sample No	**23097282**
Customer Sample ID	W1
RPS Sample No	446010
Sample Type	**WATER**
Sampling Date	21/10/2020

Determinand	CAS No	Codes	SOP	Units	RL	
4-bromodiphenyl ether (BDE-3)	101-55-3	N	in house	ug/l	0.1	< 0.50

Comments

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

RPS Sample Number	Customer Number	Sample Comments
446010	23097282	Reporting limit has been raised due to matrix interference.

Deviating Samples

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
446010	23097282		21/10/2020	500ml amber glass bottle	No	

Key Code	Description
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
F	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
N	Not Accredited Test
O	Marine Management Organisation (MMO) Validated
S	Subcontracted to approved laboratory
US	Subcontracted to approved laboratory UKAS Accredited for the test
MS	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SI	Subcontracted to internal RPS Group laboratory
USI	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
MSI	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Certificate of Analysis

Report No.:	**20-95730-1**
Issue No.:	**1**
Date of Issue	**10/11/2020**
Customer Details:	ALS Life Sciences Limited, Unit7-8, Hawarden Business Park, Manor Road, Hawarden, Deeside, Flintshire, CH5 3US
Customer Contact:	Carrie Foster
Customer Order No.:	201022-67
Customer Reference:	201022-67
Quotation Reference:	200811/04
Description:	1 water sample
Date Received:	26/10/2020
Date Started:	30/10/2020
Date Completed:	10/11/2020
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None

Approved By: **Matthew Hickson, Laboratory Manager**

Results Summary

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

Customer Sample No	**23097282**
Customer Sample ID	W1
RPS Sample No	446010
Sample Type	**WATER**
Sampling Date	21/10/2020

Determinand	CAS No	Codes	SOP	Units	RL	
4-bromodiphenyl ether (BDE-3)	101-55-3	N	in house	ug/l	0.1	< 0.50

Comments

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

RPS Sample Number	Customer Number	Sample Comments
446010	23097282	Reporting limit has been raised due to matrix interference.

Deviating Samples

Report No.: 20-95730-1

Customer Reference: 201022-67

Customer Order No: 201022-67

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
446010	23097282		21/10/2020	500ml amber glass bottle	No	

Key Code	Description
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
F	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
N	Not Accredited Test
O	Marine Management Organisation (MMO) Validated
S	Subcontracted to approved laboratory
US	Subcontracted to approved laboratory UKAS Accredited for the test
MS	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SI	Subcontracted to internal RPS Group laboratory
USI	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
MSI	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Appendix General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.