Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

ESSITY UK LTD
Oakenholt Mill
Chester Road
Flint
Flintshire
CH6 5PU

Attention: Conor Harwood

CERTIFICATE OF ANALYSIS

Date of report Generation:	16 September 2025
Customer:	ESSITY UK LTD
Sample Delivery Group (SDG):	250821-16
Your Reference:	
Location:	Oakenholt Mill
Report No:	777260
Order Number:	4504362941

This report has been revised and directly supersedes 775749 in its entirety.

We received 3 samples on Wednesday August 20, 2025 and 3 of these samples were scheduled for analysis which was completed on Tuesday September 16, 2025. 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 Laboratories (UK) Limited Hawarden.

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:

Justin Keeton
Business Unit Leader - Land

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749
Client Ref.: **Location:** Oakenholt Mill

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
32025291	RES		0.00 - 0.00	20/08/2025
32025286	SA		0.00 - 0.00	20/08/2025
32025277	W1		0.00 - 0.00	20/08/2025

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

Validated

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

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)	Customer Sample Reference	AGS Reference	Depth (m)	Container	Sample Type
			32025291	RES		0.00 - 0.00	500ml Plastic (ALE208)	SW
							H2SO4 (ALE244)	SW
							HNO3 Unfiltered (ALE204)	SW
							250ml BOD (ALE212)	TE
							500ml Plastic (ALE208)	TE
							H2SO4 (ALE244)	TE
							HNO3 Unfiltered (ALE204)	TE
			32025286	SA		0.00 - 0.00	0.5l glass bottle (ALE227)	TE
							250ml BOD (ALE212)	TE
							500ml Plastic (ALE208)	TE
							H2SO4 (ALE244)	TE
							HNO3 Unfiltered (ALE204)	TE
			32025277	W1		0.00 - 0.00	Vial (ALE297)	TE
Acid Herbicides by GCMS	All	NDPs: 0 Tests: 1						
								X
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 3						
								X
								X
								X
BOD True Total	All	NDPs: 0 Tests: 2						
								X
								X
Chloralkanes C10 - C13 by GCMS	All	NDPs: 0 Tests: 1						
								X
COD Unfiltered	All	NDPs: 0 Tests: 2						
								X
								X
Mercury Unfiltered	All	NDPs: 0 Tests: 1						
								X
Nonylphenol and Octylphenol*	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
PCB Congeners - Aqueous (W)	All	NDPs: 0 Tests: 1						
								X
Pesticides (Suite I) by GCMS	All	NDPs: 1 Tests: 1						
								N
								X
Pesticides (Suite II) by GCMS	All	NDPs: 0 Tests: 1						
								X
Pesticides (Suite III) by GCMS	All	NDPs: 1 Tests: 1						
								N
								X
Phosphate by Kone (w)	All	NDPs: 0 Tests: 2						
								X
								X
Suspended Solids	All	NDPs: 0 Tests: 2						
								X
								X

Validated

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

Results Legend

X Test

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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)			32025291			32025286			32025277					
Customer Sample Reference			RES			SA			W1					
AGS Reference														
Depth (m)			0.00 - 0.00			0.00 - 0.00			0.00 - 0.00					
Container			500ml Plastic (ALE208)	H2SO4 (ALE244)	HNO3 Unfiltered (ALE204)	250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	HNO3 Unfiltered (ALE204)	0.5l glass bottle (ALE227)	250ml BOD (ALE212)	500ml Plastic (ALE208)	H2SO4 (ALE244)	HNO3 Unfiltered (ALE204)	Vial (ALE297)
Sample Type			SW	SW	SW	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE
Total Metals by ICP-MS	All	NDPs: 0 Tests: 3			X				X					X	
Total Nitrogen	All	NDPs: 0 Tests: 3	X				X					X			
Urons & Triazines (W)	All	NDPs: 0 Tests: 1										X			
VOC MS (W)	All	NDPs: 0 Tests: 1													X

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

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
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	RES	SA	W1			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Surface Water (SW)	Trade Effluent (TE)	Trade Effluent (TE)			
			Date Sampled	20/08/2025	20/08/2025	20/08/2025			
			Sample Time	.	.	.			
			Date Received	20/08/2025	20/08/2025	20/08/2025			
			SDG Ref	250821-16	250821-16	250821-16			
			Lab Sample No.(s)	32025291	32025286	32025277			
			AGS Reference						
Chloroalkanes (C10-C13)*	µg/l	SUB				<0.8			
Nonylphenol*	<0.1 µg/l	SUB				<0.26			
4-t-Octylphenol*	<0.01 µg/l	SUB				<0.01			
4-n-Octylphenol*	<0.1 µg/l	SUB				<0.1			
4-Nonylphenol*	<0.1 µg/l	SUB				<0.1			
Suspended solids, Total	<2 mg/l	TM022			1120 #	10.5 #			
BOD, unfiltered	<1 mg/l	TM045			157 #	2.47 #			
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		0.6 #	0.944 #	0.285 #			
COD, unfiltered	<7 mg/l	TM107			845 #	115 #			
Cadmium (tot.unfilt)	<0.5 µg/l	TM152				<3			
Lead (tot.unfilt)	<1 µg/l	TM152				<6			
Nickel (tot.unfilt)	<1 µg/l	TM152				<6			
Phosphorus (tot.unfilt)	<20 µg/l	TM152		290 #	4440	2800			
Mercury (tot.unfilt)	<0.02 µg/l	TM183				<0.02 #			
Phosphate (Ortho as PO4)	<0.05 mg/l	TM184			7.5 #	7.44 #			
Chloridazon (aq)	<0.03 µg/l	TM185				<0.03			
Carbetamide (aq)	<0.04 µg/l	TM185				<0.04			
Monuron (aq)	<0.03 µg/l	TM185				<0.03			
Simazine (aq)	<0.04 µg/l	TM185				<0.04			
Atrazine (aq)	<0.07 µg/l	TM185				<0.07			
Chlortoluron (aq)	<0.03 µg/l	TM185				<0.03			
Diuron (aq)	<0.03 µg/l	TM185				<0.03			
Isoproturon (aq)	<0.04 µg/l	TM185				<0.04			
Methabenzthiazuron (aq)	<0.04 µg/l	TM185				<0.04			
Propham (aq)	<0.09 µg/l	TM185				<0.09			
Linuron (aq)	<0.04 µg/l	TM185				<0.04			
Propazine (aq)	<0.06 µg/l	TM185				<0.06			
Chlorpropham (aq)	<0.09 µg/l	TM185				<0.09			
Prometryn (aq)	<0.04 µg/l	TM185				<0.04			
Terbutryn (aq)	<0.04 µg/l	TM185				<0.04			
PCB congener 28	<0.015 µg/l	TM197				<0.075			
PCB congener 52	<0.015 µg/l	TM197				<0.075			
PCB congener 101	<0.015 µg/l	TM197				<0.075			

Results Legend

#	ISO17025 accredited.
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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
***	6:2 FTAB (see appendix)
1-4+§@	Sample deviation (see appendix)

Customer Sample Ref.	RES	SA	W1			
Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
Sample Type	Surface Water (SW)	Trade Effluent (TE)	Trade Effluent (TE)			
Date Sampled	20/08/2025	20/08/2025	20/08/2025			
Sample Time	.	.	.			
Date Received	20/08/2025	20/08/2025	20/08/2025			
SDG Ref	250821-16	250821-16	250821-16			
Lab Sample No.(s)	32025291	32025286	32025277			
AGS Reference						

Component	LOD/Units	Method						
PCB congener 118	<0.015 µg/l	TM197			<0.075			
PCB congener 138	<0.015 µg/l	TM197			<0.075			
PCB congener 153	<0.015 µg/l	TM197			<0.075			
PCB congener 180	<0.015 µg/l	TM197			<0.075			
Sum of detected EC7 PCB's	<0.105 µg/l	TM197			<0.525			
PCB congener 77	<0.015 µg/l	TM197			<0.075			
PCB congener 81	<0.015 µg/l	TM197			<0.075			
PCB congener 105	<0.015 µg/l	TM197			<0.075			
PCB congener 114	<0.015 µg/l	TM197			<0.075			
PCB congener 123	<0.015 µg/l	TM197			<0.075			
PCB congener 126	<0.015 µg/l	TM197			<0.075			
PCB congener 156	<0.015 µg/l	TM197			<0.075			
PCB congener 157	<0.015 µg/l	TM197			<0.075			
PCB congener 167	<0.015 µg/l	TM197			<0.075			
PCB congener 169	<0.015 µg/l	TM197			<0.075			
PCB congener 189	<0.015 µg/l	TM197			<0.075			
Nitrogen, Total	<1 mg/l	TM212	4.82 #	7.61 #	5.7 #			
Dibutyl tin	<5 ng/l	TM328			<30			
Tributyl tin	<1 ng/l	TM328			<6			
Tetrabutyl tin	<2 ng/l	TM328			<12			
Triphenyl tin	<1 ng/l	TM328			<6			
Surrogate**	%	TM328			74.5			
Trifluralin	<0.01 µg/l	TM343			<0.015			
alpha-HCH	<0.01 µg/l	TM343			<0.015			
gamma-HCH (Lindane)	<0.01 µg/l	TM343			<0.015			
Heptachlor	<0.01 µg/l	TM343			<0.015			
Aldrin	<0.01 µg/l	TM343			<0.015			
beta-HCH	<0.01 µg/l	TM343			<0.015			
Isodrin	<0.01 µg/l	TM343			<0.015			
delta-HCH	<0.01 µg/l	TM343			<0.015			
Heptachlor epoxide	<0.01 µg/l	TM343			<0.015			
o,p'-DDE	<0.01 µg/l	TM343			<0.015			
Endosulphan I	<0.01 µg/l	TM343			<0.015			

Results Legend
- # ISO17025 accredited.
- M mCERTS accredited.
- aq Aqueous / settled sample.
- diss.filt Dissolved / filtered sample.
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- ** % 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
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	RES	SA	W1			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Surface Water (SW)	Trade Effluent (TE)	Trade Effluent (TE)			
			Date Sampled	20/08/2025	20/08/2025	20/08/2025			
			Sample Time	.	.	.			
			Date Received	20/08/2025	20/08/2025	20/08/2025			
			SDG Ref	250821-16	250821-16	250821-16			
			Lab Sample No.(s)	32025291	32025286	32025277			
			AGS Reference						
trans-Chlordane	<0.01 µg/l	TM343				<0.015			
cis-Chlordane	<0.01 µg/l	TM343				<0.015			
p,p'-DDE	<0.01 µg/l	TM343				<0.015			
Dieldrin	<0.01 µg/l	TM343				<0.015			
o,p'-DDD (TDE)	<0.01 µg/l	TM343				<0.015			
Endrin	<0.01 µg/l	TM343				<0.015			
p,p'-DDD (TDE)	<0.01 µg/l	TM343				<0.015			
Endosulphan II	<0.02 µg/l	TM343				<0.03			
Endosulphan Sulphate	<0.02 µg/l	TM343				<0.03			
Permethrin I	<0.01 µg/l	TM343				<0.015			
Permethrin II	<0.01 µg/l	TM343				<0.015			
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			

Results Legend
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- ** % 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
- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	RES	SA	W1			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Surface Water (SW)	Trade Effluent (TE)	Trade Effluent (TE)			
			Date Sampled	20/08/2025	20/08/2025	20/08/2025			
			Sample Time	.	.	.			
			Date Received	20/08/2025	20/08/2025	20/08/2025			
			SDG Ref	250821-16	250821-16	250821-16			
			Lab Sample No.(s)	32025291	32025286	32025277			
			AGS Reference						
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				<0.01			
Parathion	<0.01 µg/l	TM344				<0.01			
Chlorfenvinphos	<0.01 µg/l	TM344				<0.01			
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				<0.015			
Pentachlorobenzene	<0.01 µg/l	TM345				<0.015			
Propachlor	<0.01 µg/l	TM345				<0.015			
Quintozene (PCNB)	<0.01 µg/l	TM345				<0.015			
Propazine	<0.01 µg/l	TM345				<0.015			
Propyzamide	<0.01 µg/l	TM345				<0.015			
Alachlor	<0.01 µg/l	TM345				<0.015			
Prometryn	<0.01 µg/l	TM345				<0.015			
Telodrin	<0.01 µg/l	TM345				<0.015			
Terbutryn	<0.01 µg/l	TM345				<0.015			
Chlorothalonil	<0.01 µg/l	TM345				<0.015			
Etrimphos	<0.01 µg/l	TM345				<0.015			
Metazachlor	<0.01 µg/l	TM345				<0.015			
Cyanazine	<0.01 µg/l	TM345				<0.12			
Trietazine	<0.01 µg/l	TM345				<0.015			
Coumaphos	<0.01 µg/l	TM345				<0.015			
Dinitro-o-cresol	<0.1 µg/l	TM411				<0.1			
Clopyralid	<0.04 µg/l	TM411				<0.04			

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

Results Legend

#	ISO17025 accredited.
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aq	Aqueous / settled sample.
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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
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1-4♦§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	RES	SA	W1			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Surface Water (SW)	Trade Effluent (TE)	Trade Effluent (TE)			
			Date Sampled	20/08/2025	20/08/2025	20/08/2025			
			Sample Time	.	.	.			
			Date Received	20/08/2025	20/08/2025	20/08/2025			
			SDG Ref	250821-16	250821-16	250821-16			
			Lab Sample No.(s)	32025291	32025286	32025277			
			AGS Reference						
MCPA	<0.05 µg/l	TM411				<0.05			
Mecoprop	<0.04 µg/l	TM411				<0.04			
Dicamba	<0.04 µg/l	TM411				<0.04			
MCPB	<0.05 µg/l	TM411				<0.05			
2,4-DB	<0.1 µg/l	TM411				<0.1			
2,3,6-Trichlorobenzoic acid	<0.05 µg/l	TM411				<0.05			
Dichlorprop	<0.1 µg/l	TM411				<0.1			
Triclopyr	<0.05 µg/l	TM411				<0.05			
Fenoprop (Silvex)	<0.1 µg/l	TM411				<0.1			
2,4-Dichlorophenoxyacetic acid	<0.05 µg/l	TM411				<0.05			
2,4,5-Trichlorophenoxyacetic acid	<0.05 µg/l	TM411				<0.05			
Bromoxynil	<0.04 µg/l	TM411				<0.04			
Benazolin	<0.04 µg/l	TM411				<0.04			
Ioxynil	<0.05 µg/l	TM411				<0.05			
Pentachlorophenol	<0.04 µg/l	TM411				<0.04			
Fluoroxypyr	<0.1 µg/l	TM411				<0.1			

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749
Client Ref.: **Location:** Oakenholt Mill

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.
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- *** 6:2 FTAB (see appendix)
- 1-4♦§@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	
			W1	
			Depth (m)	0.00 - 0.00
			Sample Type	Trade Effluent (TE)
			Date Sampled	20/08/2025
			Sample Time	.
			Date Received	20/08/2025
			SDG Ref	250821-16
			Lab Sample No.(s)	32025277
			AGS Reference	
Naphthalene (aq)	<0.01 µg/l	TM178	<0.05	
Acenaphthene (aq)	<0.005 µg/l	TM178	0.0283	
Acenaphthylene (aq)	<0.005 µg/l	TM178	<0.025	
Fluoranthene (aq)	<0.005 µg/l	TM178	<0.025	
Anthracene (aq)	<0.005 µg/l	TM178	<0.025	
Phenanthrene (aq)	<0.005 µg/l	TM178	0.0512	
Fluorene (aq)	<0.005 µg/l	TM178	<0.025	
Chrysene (aq)	<0.005 µg/l	TM178	<0.025	
Pyrene (aq)	<0.005 µg/l	TM178	0.0288	
Benzo(a)anthracene (aq)	<0.005 µg/l	TM178	<0.025	
Benzo(b)fluoranthene (aq)	<0.005 µg/l	TM178	<0.025	
Benzo(k)fluoranthene (aq)	<0.005 µg/l	TM178	<0.025	
Benzo(a)pyrene (aq)	<0.002 µg/l	TM178	<0.01	
Dibenzo(a,h)anthracene (aq)	<0.005 µg/l	TM178	<0.025	
Benzo(g,h,i)perylene (aq)	<0.005 µg/l	TM178	<0.025	
Indeno(1,2,3-cd)pyrene (aq)	<0.005 µg/l	TM178	<0.025	
PAH, Total Detected USEPA 16 (aq)	<0.082 µg/l	TM178	<0.41	

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

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
***	6:2 FTAB (see appendix)
1-4+§@	Sample deviation (see appendix)

Customer Sample Ref.			W1				
Depth (m)			0.00 - 0.00				
Sample Type			Trade Effluent (TE)				
Date Sampled			20/08/2025				
Sample Time			.				
Date Received			20/08/2025				
SDG Ref			250821-16				
Lab Sample No.(s)			32025277				
AGS Reference							
Component	**LOD/Units**	**Method**					
Dibromofluoromethane**	%	TM208	98.2				
Toluene-d8**	%	TM208	97.2				
4-Bromofluorobenzene**	%	TM208	94.1				
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: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749

Client Ref.: **Location:** Oakenholt Mill

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
***	6:2 FTAB (see appendix)
1-4♦§@	Sample deviation (see appendix)

Customer Sample Ref.	W1
Depth (m)	0.00 - 0.00
Sample Type	Trade Effluent (TE)
Date Sampled	20/08/2025
Sample Time	.
Date Received	20/08/2025
SDG Ref	250821-16
Lab Sample No.(s)	32025277
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

CERTIFICATE OF ANALYSIS

SDG: 250821-16 **Report Number:** 777260 **Superseded Report:** 775749
Client Ref.: **Location:** Oakenholt Mill

Notification of NDPs (No determination possible)

Date Received : 21/08/2025 05:04:21

Sample No	Customer Sample Ref.	Depth (m)	Test	Comment
32025277	W1	0.00 - 0.00	Pesticides (Suite I) by GCMS	Insufficient sample remaining for repeat analysis
32025277	W1	0.00 - 0.00	Pesticides (Suite III) by GCMS	Sample unsuitable for analysis

Table of Results - Appendix

Method No	Description
TM022	Determination of total suspended solids in waters
TM045	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids
TM099	Determination of Ammonium in Water Samples using the Kone Analyser
TM107	Determination of Chemical Oxygen Demand using COD Dr Lange Kit
TM178	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters
TM185	The Determination of Triazines, Urons and Carbetamide in Environmental Water Samples and Lechates by LC/MS QQQ.
TM197	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Waters
TM343	Determination of Selected Pesticides (Suite I) in Liquids by GCMS
TM345	Determination of selected pesticides (Suite III) by GCMS
TM411	Acid Herbs in Water by GCMS
SUB	Subcontracted Test
TM152	Analysis of Aqueous Samples by ICP-MS
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM208	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters
TM212	Determination of Total Nitrogen by High Temperature Catalytic Oxidation followed by Chemiluminescence Detection
TM328	Determination of Organotins in Aqueous Samples
TM344	Determination of selected pesticides (Suite II) by GCMS

NA = not applicable.
Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

Test Completion Dates

Lab Sample No(s)	32025291	32025286	32025277
Customer Sample Ref.	RES	SA	W1
AGS Ref.			
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	Surface Water	Trade Effluent	Trade Effluent
Acid Herbicides by GCMS			02-Sep-2025
Ammoniacal Nitrogen	27-Aug-2025	27-Aug-2025	27-Aug-2025
BOD True Total		26-Aug-2025	26-Aug-2025
Chloralkanes C10 - C13 by GCMS			02-Sep-2025
COD Unfiltered		27-Aug-2025	27-Aug-2025
Mercury Unfiltered			28-Aug-2025
Nonylphenol and Octylphenol*			02-Sep-2025
Organotins in Aqueous Samples			04-Sep-2025
PAH Spec MS - Aqueous (W)			28-Aug-2025
PCB Congeners - Aqueous (W)			01-Sep-2025
Pesticides (Suite I) by GCMS			27-Aug-2025
Pesticides (Suite II) by GCMS			05-Sep-2025
Pesticides (Suite III) by GCMS			16-Sep-2025
Phosphate by Kone (w)		27-Aug-2025	27-Aug-2025
Suspended Solids		28-Aug-2025	28-Aug-2025
Total Metals by ICP-MS	27-Aug-2025	27-Aug-2025	27-Aug-2025
Total Nitrogen	28-Aug-2025	28-Aug-2025	28-Aug-2025
Urons & Triazines (W)			01-Sep-2025
VOC MS (W)			29-Aug-2025

CERTIFICATE OF ANALYSIS

Work Order	: **PR25A7083**	Issue Date	: 01-Sep-2025
Customer	: **ALS Laboratories (UK) Limited**	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	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	: 250821-16	Page	: 1 of 2
Order number	: ----	Date Samples Received	: 26-Aug-2025
		Quote number	: PR2022ALSEC-GB0002 (CZ-256-18-0022)
Site	: ----	Date of test	: 26-Aug-2025 - 01-Sep-2025
Sampled by	: customer	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 is not responsible for the sample data supplied by the customer and their impact on the validity of the result.
The laboratory declares that the test results relate only to the listed samples. If "ALS" is not included in the test report in the "Sampled by" section, then the results refer to the sample as received.
Sample(s) PR25A7083/001, method W-AEOGMS01 - LOR for particular sample(s) raised due to matrix interference.
Sample(s) PR25A7083/002, method W-CLAGMS01 - LOR for particular sample(s) raised due to matrix interferences (low internal standard recovery rate(s)).

Responsible for accuracy

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

Signatories	*Position*
Lubomír Pokorný	Country Manager

L 1163

The company is certified according to ČSN EN ISO 14001 (Environmental management systems) and ČSN ISO 45001 (Occupational health and safety management systems)

Analytical Results

Sub-Matrix: **EFFLUENT**			Client sample ID	**32028041 W1**		**32028040 W1**		**----**	
			Laboratory sample ID	*PR25A7083001*		*PR25A7083002*		----	
			Client sampling date / time	21-Aug-2025 10:33		21-Aug-2025 10:33		----	
Parameter	*Method*	*LOR*	*Unit*	**Result**	**MU**	**Result**	**MU**	**Result**	**MU**
Chlorinated Hydrocarbons									
Chlorinated Alkanes C10-C13	W-CLAGMS01	0.40	µg/L	**----**	----	<0.80	----	**----**	----
Alkylphenols									
4-n-Octylphenol	W-AEOGMS01	0.100	µg/L	<0.100	----	**----**	----	**----**	----
4-Nonylphenol	W-AEOGMS01	0.100	µg/L	<0.100	----	**----**	----	**----**	----
4-t-Octylphenol	W-AEOGMS01	0.010	µg/L	<0.010	----	**----**	----	**----**	----
4-t-Octylphenol diethoxylate	W-AEOGMS01	0.010	µg/L	<0.010	----	**----**	----	**----**	----
4-t-Octylphenol monoethoxylate	W-AEOGMS01	0.010	µg/L	<0.010	----	**----**	----	**----**	----
4-t-Octylphenol triethoxylate	W-AEOGMS01	0.010	µg/L	<0.010	----	**----**	----	**----**	----
Nonylphenol (mixture of isomers)	W-AEOGMS01	0.100	µg/L	<0.260	----	**----**	----	**----**	----
Nonylphenol diethoxylate (mixture of isomers)	W-AEOGMS01	0.100	µg/L	<0.100	----	**----**	----	**----**	----
Nonylphenol monoethoxylate (mixture of isomers)	W-AEOGMS01	0.100	µg/L	<0.100	----	**----**	----	**----**	----
Nonylphenol triethoxylate (mixture of isomers)	W-AEOGMS01	0.100	µg/L	<0.100	----	**----**	----	**----**	----
Sum of 4 NP and NPE	W-AEOGMS01	0.40	µg/L	<0.40	----	**----**	----	**----**	----
Sum of 5 NP and NPE	W-AEOGMS01	0.500	µg/L	<0.660	----	**----**	----	**----**	----
Sum of 5 OP and OPE	W-AEOGMS01	0.140	µg/L	<0.140	----	**----**	----	**----**	----

When sampling date is not provided by the client, the laboratory determines it for procedural reasons, then it is equal to the date of receipt of the sample to the laboratory and is displayed in brackets. 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.

Brief Method Summaries

Analytical Methods	*Method Descriptions*
Location of test performance: Na Harfe 336/9 Prague 9 - Vysocany Czech Republic 190 00	
W-AEOGMS01	CZ_SOP_D06_03_178 (CSN EN ISO 18857-2) Determination of alkylphenols and alkylphenol ethoxylates by gas chromatography method with MS or MS/MS detection and calculation of alkylphenols and alkylphenol ethoxylates sums from measured values
W-CLAGMS01	CZ_SOP_D06_03_192.A - (CSN EN ISO 12010) Determination of chlorinated alkanes by gas chromatography method with MS/MS detection

The symbol "*" for the method indicates a test outside the scope of accreditation of the laboratory or subcontractor. If the UNICO-SUB code is stated in the method table, this only informs that the tests have been performed by a subcontractor and the results are given in an annex to the test report, including information on test accreditation. If the lab used for matrix outside the scope of accreditation or non-standard sample matrix procedure specified in the accredited method and issues non-accredited results, this fact is stated on the title page of this protocol in the section "Notes". If the test report shows the results of subcontracting, the place of performance of the test is outside the laboratories of ALS Czech Republic, s.r.o.
The method for calculating of the summation parameters is available on request in the customer service.

The end of the certificate of analysis

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 15 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 15 days 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. For dried and crushed preparations of soils volatile loss may occur -
e.g volatile mercury.

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 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **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.

19. **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**

20. **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 (2021), 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.

If during the search of the two ‘pinch’ samples by PLM only 1 or 2 fibres or fibre bundles are seen and identified as asbestos, the term ‘trace asbestos identified’ is reported.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials and soils 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 (2021).

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.

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.
Potentially respirable fibres are identified by using a Phase Contrast Microscope.

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.

21. 6:2 FTAB

Recovery of 6:2 FTAB in the quality control samples has been observed to be <50% of the target value. Please note the 6:2 FTAB result is supplied as indicative only.