ALS Environmental

Date: 23-Jan-25

Client: Spotlight Air Environmental
Project: Interim-FR-GB; Urbana, IL
Work Order: **25010042**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
25010042-01	123124-FR-GB	Air		12/31/2024 05:02	1/3/2025 14:46	☐

ALS Environmental

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Work Order: 25010042

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *23-Jan-25*

Client: Spotlight Air Environmental
Project: Interim-FR-GB; Urbana, IL
Sample ID: 123124-FR-GB
Collection Date: 12/31/2024 05:02 AM

Work Order: 25010042
Lab ID: 25010042-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			**ETO-15**			Analyst: **LAK**
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	1/8/2025 01:10 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	1/8/2025 01:10 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	1/8/2025 01:10 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	1/8/2025 01:10 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	1/8/2025 01:10 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	1/8/2025 01:10 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	1/8/2025 01:10 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	1/8/2025 01:10 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	1/8/2025 01:10 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	1/8/2025 01:10 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	1/8/2025 01:10 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	1/8/2025 01:10 PM
1,3-Butadiene	ND		0.442	µg/m3	1	1/8/2025 01:10 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	1/8/2025 01:10 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	1/8/2025 01:10 PM
1,4-Dioxane	ND		1.80	µg/m3	1	1/8/2025 01:10 PM
2-Butanone	ND		2.95	µg/m3	1	1/8/2025 01:10 PM
2-Hexanone	ND		4.10	µg/m3	1	1/8/2025 01:10 PM
2-Propanol	**202**	E	**2.46**	**µg/m3**	1	1/8/2025 01:10 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	1/8/2025 01:10 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	1/8/2025 01:10 PM
Acetone	**63.0**	E	**2.38**	**µg/m3**	1	1/8/2025 01:10 PM
Benzene	ND		1.60	µg/m3	1	1/8/2025 01:10 PM
Benzyl chloride	ND		2.55	µg/m3	1	1/8/2025 01:10 PM
Bromodichloromethane	ND		1.34	µg/m3	1	1/8/2025 01:10 PM
Bromoform	ND		5.17	µg/m3	1	1/8/2025 01:10 PM
Bromomethane	ND		1.94	µg/m3	1	1/8/2025 01:10 PM
Carbon disulfide	ND		1.56	µg/m3	1	1/8/2025 01:10 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	1/8/2025 01:10 PM
Chlorobenzene	ND		2.30	µg/m3	1	1/8/2025 01:10 PM
Chloroethane	ND		1.32	µg/m3	1	1/8/2025 01:10 PM
Chloroform	**3.42**		**0.976**	**µg/m3**	1	1/8/2025 01:10 PM
Chloromethane	**1.51**		**1.03**	**µg/m3**	1	1/8/2025 01:10 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/8/2025 01:10 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/8/2025 01:10 PM
Cumene	ND		2.46	µg/m3	1	1/8/2025 01:10 PM
Cyclohexane	ND		1.72	µg/m3	1	1/8/2025 01:10 PM
Dibromochloromethane	ND		4.26	µg/m3	1	1/8/2025 01:10 PM
Dichlorodifluoromethane	ND		2.47	µg/m3	1	1/8/2025 01:10 PM

Note:

ALS Environmental

Date: *23-Jan-25*

Client: Spotlight Air Environmental
Project: Interim-FR-GB; Urbana, IL
Sample ID: 123124-FR-GB
Collection Date: 12/31/2024 05:02 AM

Work Order: 25010042
Lab ID: 25010042-01
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	**4.43**		**1.80**	**µg/m3**	1	1/8/2025 01:10 PM
Ethylbenzene	ND		2.17	µg/m3	1	1/8/2025 01:10 PM
Freon 113	ND		3.83	µg/m3	1	1/8/2025 01:10 PM
Freon 114	ND		3.50	µg/m3	1	1/8/2025 01:10 PM
Heptane	**3.44**		**2.05**	**µg/m3**	1	1/8/2025 01:10 PM
Hexachlorobutadiene	ND		2.13	µg/m3	1	1/8/2025 01:10 PM
Hexane	ND		1.76	µg/m3	1	1/8/2025 01:10 PM
m,p-Xylene	ND		2.17	µg/m3	1	1/8/2025 01:10 PM
Methylene chloride	ND		7.00	µg/m3	1	1/8/2025 01:10 PM
MTBE	ND		1.80	µg/m3	1	1/8/2025 01:10 PM
Naphthalene	ND		1.05	µg/m3	1	1/8/2025 01:10 PM
o-Xylene	ND		2.17	µg/m3	1	1/8/2025 01:10 PM
Propene	ND		0.861	µg/m3	1	1/8/2025 01:10 PM
Styrene	ND		2.13	µg/m3	1	1/8/2025 01:10 PM
Tetrachloroethene	ND		3.39	µg/m3	1	1/8/2025 01:10 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	1/8/2025 01:10 PM
Toluene	**6.29**		**1.88**	**µg/m3**	1	1/8/2025 01:10 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/8/2025 01:10 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/8/2025 01:10 PM
Trichloroethene	ND		1.07	µg/m3	1	1/8/2025 01:10 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	1/8/2025 01:10 PM
Vinyl acetate	ND		3.52	µg/m3	1	1/8/2025 01:10 PM
Vinyl chloride	ND		1.28	µg/m3	1	1/8/2025 01:10 PM
Surr: Bromofluorobenzene	*89.3*		*60-140*	*%REC*	1	1/8/2025 01:10 PM

Note:

Batch ID: **R238364** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R238364** Units: **ppbv** Analysis Date: **1/8/2025 08:59 AM**

Client ID: Run ID: **VMS4_250108A** SeqNo: **3600478** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.20								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.20								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.20								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.20								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.20								
1,4-Dioxane	ND	0.50								
2-Butanone	ND	1.0								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.20								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R238364** Instrument ID **VMS4** Method: **ETO-15**

Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.20						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	2.0						
MTBE	ND	0.50						
Naphthalene	0.146	0.20						J
o-Xylene	ND	0.50						
Propene	ND	0.50						
Styrene	ND	0.50						
Tetrachloroethene	ND	0.50						
Tetrahydrofuran	ND	0.50						
Toluene	ND	0.50						
trans-1,2-Dichloroethene	ND	0.50						
trans-1,3-Dichloropropene	ND	0.50						
Trichloroethene	ND	0.20						
Trichlorofluoromethane	ND	0.50						
Vinyl acetate	ND	1.0						
Vinyl chloride	ND	0.50						
Surr: Bromofluorobenzene	*8.351*	0	*10*	0	*83.5*	*60-140*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Spotlight Air Environmental
Work Order: 25010042
Project: Interim-FR-GB; Urbana, IL

QC BATCH REPORT

Batch ID: **R238364** Instrument ID **VMS4** Method: **ETO-15**

LCS Sample ID: **lcs-R238364** Units: **ppbv** Analysis Date: **1/8/2025 08:15 AM**
Client ID: Run ID: **VMS4_250108A** SeqNo: **3600477** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	9.284	0.50	10	0	92.8	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.734	0.50	10	0	97.3	60-140	0			
1,1,2-Trichloroethane	9.712	0.20	10	0	97.1	60-140	0			
1,1-Dichloroethane	10.45	0.50	10	0	105	60-140	0			
1,1-Dichloroethene	10.56	0.50	10	0	106	60-140	0			
1,2,4-Trichlorobenzene	9.826	0.50	10	0	98.3	49.3-150	0			
1,2,4-Trimethylbenzene	10.06	0.50	10	0	101	50.1-162	0			
1,2-Dibromoethane	9.571	0.20	10	0	95.7	60-140	0			
1,2-Dichlorobenzene	9.841	0.50	10	0	98.4	41.9-141	0			
1,2-Dichloroethane	10.45	0.20	10	0	104	60-140	0			
1,2-Dichloropropane	10.35	0.50	10	0	103	60-140	0			
1,3,5-Trimethylbenzene	9.616	0.50	10	0	96.2	60-140	0			
1,3-Butadiene	11.22	0.20	10	0	112	50.6-140	0			
1,3-Dichlorobenzene	10.49	0.50	10	0	105	60-140	0			
1,4-Dichlorobenzene	10.49	0.20	10	0	105	55.1-145	0			
1,4-Dioxane	9.041	0.50	10	0	90.4	60-140	0			
2-Butanone	10.2	1.0	10	0	102	60-140	0			
2-Hexanone	10.28	1.0	10	0	103	56.2-162	0			
2-Propanol	11.31	1.0	10	0	113	60-140	0			
4-Ethyltoluene	9.864	0.50	10	0	98.6	60-140	0			
4-Methyl-2-pentanone	10.32	1.0	10	0	103	60-140	0			
Acetone	10.28	1.0	10	0	103	60-140	0			
Benzene	10.34	0.50	10	0	103	60-140	0			
Benzyl chloride	9.169	0.50	10	0	91.7	31.9-174	0			
Bromodichloromethane	9.148	0.20	10	0	91.5	60-140	0			
Bromoform	8.495	0.50	10	0	85	60-140	0			
Bromomethane	11.78	0.50	10	0	118	60-140	0			
Carbon disulfide	9.687	0.50	10	0	96.9	60-140	0			
Carbon tetrachloride	9.467	0.50	10	0	94.7	60-140	0			
Chlorobenzene	9.796	0.50	10	0	98	60-140	0			
Chloroethane	10.64	0.50	10	0	106	60-140	0			
Chloroform	9.837	0.20	10	0	98.4	60-140	0			
Chloromethane	9.792	0.50	10	0	97.9	60-140	0			
cis-1,2-Dichloroethene	10.51	0.50	10	0	105	60-140	0			
cis-1,3-Dichloropropene	10.31	0.50	10	0	103	60-140	0			
Cumene	9.687	0.50	10	0	96.9	60-140	0			
Cyclohexane	9.988	0.50	10	0	99.9	60-140	0			
Dibromochloromethane	8.754	0.50	10	0	87.5	60-140	0			
Dichlorodifluoromethane	9.013	0.50	10	0	90.1	60-140	0			
Ethyl acetate	10.07	0.50	10	0	101	60-140	0			
Ethylbenzene	10.29	0.50	10	0	103	60-140	0			
Freon 113	9.677	0.50	10	0	96.8	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Spotlight Air Environmental
Work Order: 25010042
Project: Interim-FR-GB; Urbana, IL

QC BATCH REPORT

Batch ID: **R238364** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	9.052	0.50	10	0	90.5	60-140	0
Heptane	10.74	0.50	10	0	107	60-140	0
Hexachlorobutadiene	6.865	0.20	10	0	68.6	60-140	0
Hexane	10.36	0.50	10	0	104	60-140	0
m,p-Xylene	20.4	0.50	20	0	102	60-140	0
Methylene chloride	9.723	2.0	10	0	97.2	60-140	0
MTBE	10.25	0.50	10	0	102	60.8-151	0
Naphthalene	9.169	0.20	10	0	91.7	53.1-152	0
o-Xylene	10.41	0.50	10	0	104	60-140	0
Propene	9.337	0.50	10	0	93.4	34.4-139	0
Styrene	10.54	0.50	10	0	105	60-140	0
Tetrachloroethene	9.631	0.50	10	0	96.3	60-140	0
Tetrahydrofuran	10.55	0.50	10	0	105	60-140	0
Toluene	10.2	0.50	10	0	102	60-140	0
trans-1,2-Dichloroethene	9.668	0.50	10	0	96.7	60-140	0
trans-1,3-Dichloropropene	9.901	0.50	10	0	99	60-140	0
Trichloroethene	9.783	0.20	10	0	97.8	60-140	0
Trichlorofluoromethane	9.439	0.50	10	0	94.4	60-140	0
Vinyl acetate	10.56	1.0	10	0	106	48.4-145	0
Vinyl chloride	11.3	0.50	10	0	113	60-140	0
Surr: Bromofluorobenzene	*9.395*	0	*10*	0	*94*	*60-140*	0

The following samples were analyzed in this batch: 25010042-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 23-Jan-25

Client: Spotlight Air Environmental
Project: Interim-FR-GB; Urbana, IL
WorkOrder: **25010042**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	