ALS Environmental

Date: 07-Feb-25

Client:
Project: Spotlight Air Environmental
Work Order: **25010501**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
25010501-01	Chalmers & Oak; Champaign, IL	Air		1/22/2025 23:15	1/28/2025 15:10	☐

ALS Environmental

Date: 07-Feb-25

Client:
Project: Spotlight Air Environmental
Work Order: 25010501

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.

Sampling information was provided by the client.
Start: January 22, 11:15 p.m.
End: January 23, 7:15 a.m.

ALS Environmental

Date: *07-Feb-25*

Client:
Work Order: 25010501
Project: Spotlight Air Environmental

Lab ID: 25010501-01A
Collection Date: 1/22/2025 11:15:00 PM
Client Sample ID: Chalmers & Oak; Champaign, IL
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	1/31/2025 02:57 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	1/31/2025 02:57 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	1/31/2025 02:57 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	1/31/2025 02:57 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	1/31/2025 02:57 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	1/31/2025 02:57 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	1/31/2025 02:57 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	1/31/2025 02:57 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	1/31/2025 02:57 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	1/31/2025 02:57 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	1/31/2025 02:57 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	1/31/2025 02:57 PM
1,3-Butadiene	ND		0.442	µg/m3	1	1/31/2025 02:57 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	1/31/2025 02:57 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	1/31/2025 02:57 PM
1,4-Dioxane	ND		1.80	µg/m3	1	1/31/2025 02:57 PM
2-Butanone	ND		2.95	µg/m3	1	1/31/2025 02:57 PM
2-Hexanone	ND		4.10	µg/m3	1	1/31/2025 02:57 PM
2-Propanol	ND		2.46	µg/m3	1	1/31/2025 02:57 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	1/31/2025 02:57 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	1/31/2025 02:57 PM
Acetone	**3.59**		**2.38**	**µg/m3**	1	1/31/2025 02:57 PM
Benzene	ND		1.60	µg/m3	1	1/31/2025 02:57 PM
Benzyl chloride	ND		2.55	µg/m3	1	1/31/2025 02:57 PM
Bromodichloromethane	ND		1.34	µg/m3	1	1/31/2025 02:57 PM
Bromoform	ND		5.17	µg/m3	1	1/31/2025 02:57 PM
Bromomethane	ND		1.94	µg/m3	1	1/31/2025 02:57 PM
Carbon disulfide	ND		1.56	µg/m3	1	1/31/2025 02:57 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	1/31/2025 02:57 PM
Chlorobenzene	ND		2.30	µg/m3	1	1/31/2025 02:57 PM
Chloroethane	ND		1.32	µg/m3	1	1/31/2025 02:57 PM
Chloroform	ND		0.976	µg/m3	1	1/31/2025 02:57 PM
Chloromethane	ND		1.03	µg/m3	1	1/31/2025 02:57 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/31/2025 02:57 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/31/2025 02:57 PM
Cumene	ND		2.46	µg/m3	1	1/31/2025 02:57 PM
Cyclohexane	ND		1.72	µg/m3	1	1/31/2025 02:57 PM
Dibromochloromethane	ND		4.26	µg/m3	1	1/31/2025 02:57 PM

Note:

Dichlorodifluoromethane	ND	2.47	µg/m3	1	1/31/2025 02:57 PM
Ethyl acetate	ND	1.80	µg/m3	1	1/31/2025 02:57 PM
Ethylbenzene	ND	2.17	µg/m3	1	1/31/2025 02:57 PM
Freon 113	ND	3.83	µg/m3	1	1/31/2025 02:57 PM
Freon 114	ND	3.50	µg/m3	1	1/31/2025 02:57 PM
Heptane	ND	2.05	µg/m3	1	1/31/2025 02:57 PM
Hexachlorobutadiene	ND	2.13	µg/m3	1	1/31/2025 02:57 PM
Hexane	ND	1.76	µg/m3	1	1/31/2025 02:57 PM
m,p-Xylene	ND	2.17	µg/m3	1	1/31/2025 02:57 PM
Methylene chloride	ND	7.00	µg/m3	1	1/31/2025 02:57 PM
MTBE	ND	1.80	µg/m3	1	1/31/2025 02:57 PM
Naphthalene	ND	1.05	µg/m3	1	1/31/2025 02:57 PM
o-Xylene	ND	2.17	µg/m3	1	1/31/2025 02:57 PM
Propene	ND	0.861	µg/m3	1	1/31/2025 02:57 PM
Styrene	ND	2.13	µg/m3	1	1/31/2025 02:57 PM
Tetrachloroethene	ND	3.39	µg/m3	1	1/31/2025 02:57 PM
Tetrahydrofuran	ND	1.47	µg/m3	1	1/31/2025 02:57 PM
Toluene	ND	1.88	µg/m3	1	1/31/2025 02:57 PM
trans-1,2-Dichloroethene	ND	1.98	µg/m3	1	1/31/2025 02:57 PM
trans-1,3-Dichloropropene	ND	2.27	µg/m3	1	1/31/2025 02:57 PM
Trichloroethene	ND	1.07	µg/m3	1	1/31/2025 02:57 PM
Trichlorofluoromethane	ND	2.81	µg/m3	1	1/31/2025 02:57 PM
Vinyl acetate	ND	3.52	µg/m3	1	1/31/2025 02:57 PM
Vinyl chloride	ND	1.28	µg/m3	1	1/31/2025 02:57 PM
Surr: Bromofluorobenzene	*93.2*	*60-140*	*%REC*	1	1/31/2025 02:57 PM

Note:

Batch ID: **R238911** Instrument ID **VMS4** Method: **ETO-15**

MBLK Sample ID: **MBLK-R238911** Units: **ppbv** Analysis Date: **1/31/2025 01:26 PM**

Client ID: Run ID: **VMS4_250131A** SeqNo: **3616144** 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: **R238911**	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	0.152	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	*9.013*	0	*10*	0	*90.1*	*60-140*	0	

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

Client:
Work Order: 25010501
Project: Spotlight Air Environmental

QC BATCH REPORT

Batch ID: **R238911** Instrument ID **VMS4** Method: **ETO-15**

LCS	Sample ID: **lcs-R238911**				Units: **ppbv**			Analysis Date: **1/31/2025 12:40 PM**		
Client ID:	Run ID: **VMS4_250131A**				SeqNo: **3616143**	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	9.312	0.50	10	0	93.1	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.672	0.50	10	0	96.7	60-140	0			
1,1,2-Trichloroethane	9.471	0.20	10	0	94.7	60-140	0			
1,1-Dichloroethane	8.927	0.50	10	0	89.3	60-140	0			
1,1-Dichloroethene	9.435	0.50	10	0	94.4	60-140	0			
1,2,4-Trichlorobenzene	13.22	0.50	10	0	132	49.3-150	0			
1,2,4-Trimethylbenzene	9.998	0.50	10	0	100	50.1-162	0			
1,2-Dibromoethane	10.17	0.20	10	0	102	60-140	0			
1,2-Dichlorobenzene	10.78	0.50	10	0	108	41.9-141	0			
1,2-Dichloroethane	9.341	0.20	10	0	93.4	60-140	0			
1,2-Dichloropropane	9.275	0.50	10	0	92.8	60-140	0			
1,3,5-Trimethylbenzene	9.567	0.50	10	0	95.7	60-140	0			
1,3-Butadiene	8.166	0.20	10	0	81.7	50.6-140	0			
1,3-Dichlorobenzene	10.84	0.50	10	0	108	60-140	0			
1,4-Dichlorobenzene	10.69	0.20	10	0	107	55.1-145	0			
1,4-Dioxane	9.305	0.50	10	0	93	60-140	0			
2-Butanone	9.287	1.0	10	0	92.9	60-140	0			
2-Hexanone	10.49	1.0	10	0	105	56.2-162	0			
2-Propanol	8.73	1.0	10	0	87.3	60-140	0			
4-Ethyltoluene	10.07	0.50	10	0	101	60-140	0			
4-Methyl-2-pentanone	10.16	1.0	10	0	102	60-140	0			
Acetone	8.907	1.0	10	0	89.1	60-140	0			
Benzene	8.659	0.50	10	0	86.6	60-140	0			
Benzyl chloride	10.04	0.50	10	0	100	31.9-174	0			
Bromodichloromethane	9.665	0.20	10	0	96.6	60-140	0			
Bromoform	9.987	0.50	10	0	99.9	60-140	0			
Bromomethane	9.457	0.50	10	0	94.6	60-140	0			
Carbon disulfide	8.965	0.50	10	0	89.6	60-140	0			
Carbon tetrachloride	9.795	0.50	10	0	98	60-140	0			
Chlorobenzene	8.902	0.50	10	0	89	60-140	0			
Chloroethane	9.448	0.50	10	0	94.5	60-140	0			
Chloroform	9.152	0.20	10	0	91.5	60-140	0			
Chloromethane	9.269	0.50	10	0	92.7	60-140	0			
cis-1,2-Dichloroethene	9.723	0.50	10	0	97.2	60-140	0			
cis-1,3-Dichloropropene	10.49	0.50	10	0	105	60-140	0			
Cumene	9.34	0.50	10	0	93.4	60-140	0			
Cyclohexane	8.912	0.50	10	0	89.1	60-140	0			
Dibromochloromethane	9.978	0.50	10	0	99.8	60-140	0			
Dichlorodifluoromethane	8.931	0.50	10	0	89.3	60-140	0			
Ethyl acetate	10.52	0.50	10	0	105	60-140	0			
Ethylbenzene	8.879	0.50	10	0	88.8	60-140	0			
Freon 113	9.61	0.50	10	0	96.1	60-140	0			

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

Client:

Work Order: 25010501

Project: Spotlight Air Environmental

QC BATCH REPORT

Batch ID: **R238911** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	9.132	0.50	10	0	91.3	60-140	0
Heptane	8.898	0.50	10	0	89	60-140	0
Hexachlorobutadiene	11.02	0.20	10	0	110	60-140	0
Hexane	9.29	0.50	10	0	92.9	60-140	0
m,p-Xylene	17.6	0.50	20	0	88	60-140	0
Methylene chloride	9.378	2.0	10	0	93.8	60-140	0
MTBE	9.069	0.50	10	0	90.7	60.8-151	0
Naphthalene	12.11	0.20	10	0	121	53.1-152	0
o-Xylene	9.137	0.50	10	0	91.4	60-140	0
Propene	8.673	0.50	10	0	86.7	34.4-139	0
Styrene	9.558	0.50	10	0	95.6	60-140	0
Tetrachloroethene	9.871	0.50	10	0	98.7	60-140	0
Tetrahydrofuran	9.507	0.50	10	0	95.1	60-140	0
Toluene	8.973	0.50	10	0	89.7	60-140	0
trans-1,2-Dichloroethene	9.384	0.50	10	0	93.8	60-140	0
trans-1,3-Dichloropropene	9.712	0.50	10	0	97.1	60-140	0
Trichloroethene	9.534	0.20	10	0	95.3	60-140	0
Trichlorofluoromethane	9.349	0.50	10	0	93.5	60-140	0
Vinyl acetate	9.205	1.0	10	0	92	48.4-145	0
Vinyl chloride	8.204	0.50	10	0	82	60-140	0
Surr: Bromofluorobenzene	*10.47*	0	*10*	0	*105*	*60-140*	0

The following samples were analyzed in this batch: 25010501-01A

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

ALS Environmental

Date: 07-Feb-25

Client:
Project: Spotlight Air Environmental
WorkOrder: **25010501**

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	