

Client:
Project: Spotlight Air Environmental
Work Order: 25010505

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
25010505-01	Buena Vista & Neil; Champaign, IL	Air		1/22/2025 22:38	1/28/2025 15:10	☐

Client:**Project:** Spotlight Air Environmental**Work Order:** 25010505**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, 10:38 p.m.

End: January 23, 6:38 a.m.

ALS Environmental

Date: 07-Feb-25

Client:
Project: Spotlight Air Environmental

Work Order: 25010505

Lab ID: 25010505-01A
Client Sample ID: Buena Vista & Neil; Champaign, IL

Collection Date: 1/22/2025 10:38:00 PM
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 06:41 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	1/31/2025 06:41 PM
1,1,2-Trichloroethane	ND		1.09	µg/m3	1	1/31/2025 06:41 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	1/31/2025 06:41 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	1/31/2025 06:41 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	1/31/2025 06:41 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	1/31/2025 06:41 PM
1,2-Dibromoethane	ND		1.54	µg/m3	1	1/31/2025 06:41 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	1/31/2025 06:41 PM
1,2-Dichloroethane	ND		0.809	µg/m3	1	1/31/2025 06:41 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	1/31/2025 06:41 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	1/31/2025 06:41 PM
1,3-Butadiene	ND		0.442	µg/m3	1	1/31/2025 06:41 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	1/31/2025 06:41 PM
1,4-Dichlorobenzene	ND		1.20	µg/m3	1	1/31/2025 06:41 PM
1,4-Dioxane	ND		1.80	µg/m3	1	1/31/2025 06:41 PM
2-Butanone	ND		2.95	µg/m3	1	1/31/2025 06:41 PM
2-Hexanone	ND		4.10	µg/m3	1	1/31/2025 06:41 PM
2-Propanol	ND		2.46	µg/m3	1	1/31/2025 06:41 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	1/31/2025 06:41 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	1/31/2025 06:41 PM
Acetone	3.33		2.38	µg/m3	1	1/31/2025 06:41 PM
Benzene	ND		1.60	µg/m3	1	1/31/2025 06:41 PM
Benzyl chloride	ND		2.55	µg/m3	1	1/31/2025 06:41 PM
Bromodichloromethane	ND		1.34	µg/m3	1	1/31/2025 06:41 PM
Bromoform	ND		5.17	µg/m3	1	1/31/2025 06:41 PM
Bromomethane	ND		1.94	µg/m3	1	1/31/2025 06:41 PM
Carbon disulfide	ND		1.56	µg/m3	1	1/31/2025 06:41 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	1/31/2025 06:41 PM
Chlorobenzene	ND		2.30	µg/m3	1	1/31/2025 06:41 PM
Chloroethane	ND		1.32	µg/m3	1	1/31/2025 06:41 PM
Chloroform	ND		0.976	µg/m3	1	1/31/2025 06:41 PM
Chloromethane	ND		1.03	µg/m3	1	1/31/2025 06:41 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/31/2025 06:41 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/31/2025 06:41 PM
Cumene	ND		2.46	µg/m3	1	1/31/2025 06:41 PM
Cyclohexane	ND		1.72	µg/m3	1	1/31/2025 06:41 PM
Dibromochloromethane	ND		4.26	µg/m3	1	1/31/2025 06:41 PM

Note:

ALS Environmental

Date: 07-Feb-25

Client:

Work Order: 25010505

Project: Spotlight Air Environmental

Dichlorodifluoromethane	ND	2.47	µg/m3	1	1/31/2025 06:41 PM
Ethyl acetate	ND	1.80	µg/m3	1	1/31/2025 06:41 PM
Ethylbenzene	ND	2.17	µg/m3	1	1/31/2025 06:41 PM
Freon 113	ND	3.83	µg/m3	1	1/31/2025 06:41 PM
Freon 114	ND	3.50	µg/m3	1	1/31/2025 06:41 PM
Heptane	ND	2.05	µg/m3	1	1/31/2025 06:41 PM
Hexachlorobutadiene	ND	2.13	µg/m3	1	1/31/2025 06:41 PM
Hexane	ND	1.76	µg/m3	1	1/31/2025 06:41 PM
m,p-Xylene	ND	2.17	µg/m3	1	1/31/2025 06:41 PM
Methylene chloride	ND	7.00	µg/m3	1	1/31/2025 06:41 PM
MTBE	ND	1.80	µg/m3	1	1/31/2025 06:41 PM
Naphthalene	ND	1.05	µg/m3	1	1/31/2025 06:41 PM
o-Xylene	ND	2.17	µg/m3	1	1/31/2025 06:41 PM
Propene	ND	0.861	µg/m3	1	1/31/2025 06:41 PM
Styrene	ND	2.13	µg/m3	1	1/31/2025 06:41 PM
Tetrachloroethene	ND	3.39	µg/m3	1	1/31/2025 06:41 PM
Tetrahydrofuran	ND	1.47	µg/m3	1	1/31/2025 06:41 PM
Toluene	ND	1.88	µg/m3	1	1/31/2025 06:41 PM
trans-1,2-Dichloroethene	ND	1.98	µg/m3	1	1/31/2025 06:41 PM
trans-1,3-Dichloropropene	ND	2.27	µg/m3	1	1/31/2025 06:41 PM
Trichloroethene	ND	1.07	µg/m3	1	1/31/2025 06:41 PM
Trichlorofluoromethane	ND	2.81	µg/m3	1	1/31/2025 06:41 PM
Vinyl acetate	ND	3.52	µg/m3	1	1/31/2025 06:41 PM
Vinyl chloride	ND	1.28	µg/m3	1	1/31/2025 06:41 PM
Surr: Bromofluorobenzene	93.0	60-140	%REC	1	1/31/2025 06:41 PM

Note:

ALS Environmental

Date: 07-Feb-25

Client:
Work Order: 25010505
Project: Spotlight Air Environmental

QC BATCH REPORT

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

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			
<i>Surr: Bromofluorobenzene</i>	<i>9.013</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>90.1 60-140 0</i>

Batch ID: **R238911**

Instrument ID **VMS4**

Method: **ETO-15**

LCS				Sample ID: Ics-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.

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
<i>Surr: Bromofluorobenzene</i>	<i>10.47</i>	<i>0</i>	<i>10</i>	<i>0</i>	<i>105</i>	<i>60-140</i>	<i>0</i>

The following samples were analyzed in this batch:

25010505-01A

Client:
Project: Spotlight Air Environmental

WorkOrder: 25010505

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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

<u>Acronym</u>	<u>Description</u>
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 Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m3	
ppbv	