



21-Jan-2019

Kerri Castlen
Southwest Ohio Air Quality Agency
250 William Howard Taft Road
1st Floor
Cincinnati, OH 45219

Tel: 513-946-7777
Fax: 513-946-7778

Re: Winton Terrace; 2024-90

Work Order: **1901101**

Dear Kerri,

ALS Environmental received 2 samples on 07-Jan-2019 01:55 PM for the analyses presented in the following report.

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

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 Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; 2024-90
Work Order: 1901101

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>
1901101-01	WT-Craft-1-4-19	Air		1/4/2019	1/7/2019	<input type="checkbox"/>
1901101-02	WT-FH-1-4-19	Air		1/4/2019	1/7/2019	<input type="checkbox"/>

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; 2024-90
Work Order: 1901101

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 is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-Craft-1-4-19

Lab ID: 1901101-01

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,3-Butadiene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
1,4-Dioxane	ND		1.0	ppbv	1	1/15/2019 06:43 PM
2-Butanone	ND		0.50	ppbv	1	1/15/2019 06:43 PM
2-Hexanone	ND		1.0	ppbv	1	1/15/2019 06:43 PM
2-Propanol	ND		1.0	ppbv	1	1/15/2019 06:43 PM
4-Ethyltoluene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	1/15/2019 06:43 PM
Acetone	1.8		1.0	ppbv	1	1/15/2019 06:43 PM
Benzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Benzyl chloride	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Bromodichloromethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Bromoform	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Bromomethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Carbon disulfide	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Carbon tetrachloride	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Chlorobenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Chloroethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Chloroform	ND		0.20	ppbv	1	1/15/2019 06:43 PM
Chloromethane	0.59		0.50	ppbv	1	1/15/2019 06:43 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Cumene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Cyclohexane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Dibromochloromethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Dichlorodifluoromethane	0.64		0.50	ppbv	1	1/15/2019 06:43 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-Craft-1-4-19

Lab ID: 1901101-01

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Ethylbenzene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Freon 113	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Freon 114	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Heptane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Hexane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
m,p-Xylene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Methylene chloride	ND		1.0	ppbv	1	1/15/2019 06:43 PM
MTBE	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Naphthalene	ND		0.20	ppbv	1	1/15/2019 06:43 PM
o-Xylene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Propene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Styrene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Tetrachloroethene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Tetrahydrofuran	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Toluene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Trichloroethene	ND		0.20	ppbv	1	1/15/2019 06:43 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Vinyl acetate	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Vinyl chloride	ND		0.50	ppbv	1	1/15/2019 06:43 PM
Surr: Bromofluorobenzene	102		60-140	%REC	1	1/15/2019 06:43 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	1/15/2019 06:43 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	1/15/2019 06:43 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	1/15/2019 06:43 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	1/15/2019 06:43 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 06:43 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	1/15/2019 06:43 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	1/15/2019 06:43 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	1/15/2019 06:43 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 06:43 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	1/15/2019 06:43 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	1/15/2019 06:43 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	1/15/2019 06:43 PM
1,3-Butadiene	ND		1.11	µg/m3	1	1/15/2019 06:43 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 06:43 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 06:43 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-Craft-1-4-19

Lab ID: 1901101-01

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	1/15/2019 06:43 PM
2-Butanone	ND		1.47	µg/m3	1	1/15/2019 06:43 PM
2-Hexanone	ND		4.10	µg/m3	1	1/15/2019 06:43 PM
2-Propanol	ND		2.46	µg/m3	1	1/15/2019 06:43 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	1/15/2019 06:43 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	1/15/2019 06:43 PM
Acetone	4.20		2.38	µg/m3	1	1/15/2019 06:43 PM
Benzene	ND		1.60	µg/m3	1	1/15/2019 06:43 PM
Benzyl chloride	ND		2.59	µg/m3	1	1/15/2019 06:43 PM
Bromodichloromethane	ND		3.35	µg/m3	1	1/15/2019 06:43 PM
Bromoform	ND		5.17	µg/m3	1	1/15/2019 06:43 PM
Bromomethane	ND		1.94	µg/m3	1	1/15/2019 06:43 PM
Carbon disulfide	ND		1.56	µg/m3	1	1/15/2019 06:43 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	1/15/2019 06:43 PM
Chlorobenzene	ND		2.30	µg/m3	1	1/15/2019 06:43 PM
Chloroethane	ND		1.32	µg/m3	1	1/15/2019 06:43 PM
Chloroform	ND		0.976	µg/m3	1	1/15/2019 06:43 PM
Chloromethane	1.22		1.03	µg/m3	1	1/15/2019 06:43 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 06:43 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/15/2019 06:43 PM
Cumene	ND		2.46	µg/m3	1	1/15/2019 06:43 PM
Cyclohexane	ND		1.72	µg/m3	1	1/15/2019 06:43 PM
Dibromochloromethane	ND		4.26	µg/m3	1	1/15/2019 06:43 PM
Dichlorodifluoromethane	3.17		2.47	µg/m3	1	1/15/2019 06:43 PM
Ethyl acetate	ND		1.80	µg/m3	1	1/15/2019 06:43 PM
Ethylbenzene	ND		2.17	µg/m3	1	1/15/2019 06:43 PM
Freon 113	ND		3.83	µg/m3	1	1/15/2019 06:43 PM
Freon 114	ND		3.50	µg/m3	1	1/15/2019 06:43 PM
Heptane	ND		2.05	µg/m3	1	1/15/2019 06:43 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	1/15/2019 06:43 PM
Hexane	ND		1.76	µg/m3	1	1/15/2019 06:43 PM
m,p-Xylene	ND		2.17	µg/m3	1	1/15/2019 06:43 PM
Methylene chloride	ND		3.47	µg/m3	1	1/15/2019 06:43 PM
MTBE	ND		1.80	µg/m3	1	1/15/2019 06:43 PM
Naphthalene	ND		1.05	µg/m3	1	1/15/2019 06:43 PM
o-Xylene	ND		2.17	µg/m3	1	1/15/2019 06:43 PM
Propene	ND		0.861	µg/m3	1	1/15/2019 06:43 PM
Styrene	ND		2.13	µg/m3	1	1/15/2019 06:43 PM
Tetrachloroethene	ND		3.39	µg/m3	1	1/15/2019 06:43 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	1/15/2019 06:43 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Sample ID: WT-Craft-1-4-19

Collection Date: 1/4/2019

Work Order: 1901101

Lab ID: 1901101-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	1/15/2019 06:43 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 06:43 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/15/2019 06:43 PM
Trichloroethene	ND		1.07	µg/m3	1	1/15/2019 06:43 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	1/15/2019 06:43 PM
Vinyl acetate	ND		1.76	µg/m3	1	1/15/2019 06:43 PM
Vinyl chloride	ND		1.28	µg/m3	1	1/15/2019 06:43 PM
Surr: Bromofluorobenzene	102		60-140	%REC	1	1/15/2019 06:43 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-FH-1-4-19

Lab ID: 1901101-02

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,3-Butadiene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
1,4-Dioxane	ND		1.0	ppbv	1	1/15/2019 07:28 PM
2-Butanone	ND		0.50	ppbv	1	1/15/2019 07:28 PM
2-Hexanone	ND		1.0	ppbv	1	1/15/2019 07:28 PM
2-Propanol	ND		1.0	ppbv	1	1/15/2019 07:28 PM
4-Ethyltoluene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	1/15/2019 07:28 PM
Acetone	1.6		1.0	ppbv	1	1/15/2019 07:28 PM
Benzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Benzyl chloride	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Bromodichloromethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Bromoform	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Bromomethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Carbon disulfide	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Carbon tetrachloride	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Chlorobenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Chloroethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Chloroform	ND		0.20	ppbv	1	1/15/2019 07:28 PM
Chloromethane	0.63		0.50	ppbv	1	1/15/2019 07:28 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Cumene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Cyclohexane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Dibromochloromethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Dichlorodifluoromethane	0.65		0.50	ppbv	1	1/15/2019 07:28 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-FH-1-4-19

Lab ID: 1901101-02

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Ethylbenzene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Freon 113	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Freon 114	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Heptane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Hexane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
m,p-Xylene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Methylene chloride	ND		1.0	ppbv	1	1/15/2019 07:28 PM
MTBE	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Naphthalene	ND		0.20	ppbv	1	1/15/2019 07:28 PM
o-Xylene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Propene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Styrene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Tetrachloroethene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Tetrahydrofuran	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Toluene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Trichloroethene	ND		0.20	ppbv	1	1/15/2019 07:28 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Vinyl acetate	ND		0.50	ppbv	1	1/15/2019 07:28 PM
Vinyl chloride	ND		0.50	ppbv	1	1/15/2019 07:28 PM
<i>Surr: Bromofluorobenzene</i>	105		60-140	%REC	1	1/15/2019 07:28 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	1/15/2019 07:28 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	1/15/2019 07:28 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	1/15/2019 07:28 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	1/15/2019 07:28 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 07:28 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	1/15/2019 07:28 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	1/15/2019 07:28 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	1/15/2019 07:28 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 07:28 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	1/15/2019 07:28 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	1/15/2019 07:28 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	1/15/2019 07:28 PM
1,3-Butadiene	ND		1.11	µg/m3	1	1/15/2019 07:28 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 07:28 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	1/15/2019 07:28 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Work Order: 1901101

Sample ID: WT-FH-1-4-19

Lab ID: 1901101-02

Collection Date: 1/4/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	1/15/2019 07:28 PM
2-Butanone	ND		1.47	µg/m3	1	1/15/2019 07:28 PM
2-Hexanone	ND		4.10	µg/m3	1	1/15/2019 07:28 PM
2-Propanol	ND		2.46	µg/m3	1	1/15/2019 07:28 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	1/15/2019 07:28 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	1/15/2019 07:28 PM
Acetone	3.85		2.38	µg/m3	1	1/15/2019 07:28 PM
Benzene	ND		1.60	µg/m3	1	1/15/2019 07:28 PM
Benzyl chloride	ND		2.59	µg/m3	1	1/15/2019 07:28 PM
Bromodichloromethane	ND		3.35	µg/m3	1	1/15/2019 07:28 PM
Bromoform	ND		5.17	µg/m3	1	1/15/2019 07:28 PM
Bromomethane	ND		1.94	µg/m3	1	1/15/2019 07:28 PM
Carbon disulfide	ND		1.56	µg/m3	1	1/15/2019 07:28 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	1/15/2019 07:28 PM
Chlorobenzene	ND		2.30	µg/m3	1	1/15/2019 07:28 PM
Chloroethane	ND		1.32	µg/m3	1	1/15/2019 07:28 PM
Chloroform	ND		0.976	µg/m3	1	1/15/2019 07:28 PM
Chloromethane	1.30		1.03	µg/m3	1	1/15/2019 07:28 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 07:28 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/15/2019 07:28 PM
Cumene	ND		2.46	µg/m3	1	1/15/2019 07:28 PM
Cyclohexane	ND		1.72	µg/m3	1	1/15/2019 07:28 PM
Dibromochloromethane	ND		4.26	µg/m3	1	1/15/2019 07:28 PM
Dichlorodifluoromethane	3.21		2.47	µg/m3	1	1/15/2019 07:28 PM
Ethyl acetate	ND		1.80	µg/m3	1	1/15/2019 07:28 PM
Ethylbenzene	ND		2.17	µg/m3	1	1/15/2019 07:28 PM
Freon 113	ND		3.83	µg/m3	1	1/15/2019 07:28 PM
Freon 114	ND		3.50	µg/m3	1	1/15/2019 07:28 PM
Heptane	ND		2.05	µg/m3	1	1/15/2019 07:28 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	1/15/2019 07:28 PM
Hexane	ND		1.76	µg/m3	1	1/15/2019 07:28 PM
m,p-Xylene	ND		2.17	µg/m3	1	1/15/2019 07:28 PM
Methylene chloride	ND		3.47	µg/m3	1	1/15/2019 07:28 PM
MTBE	ND		1.80	µg/m3	1	1/15/2019 07:28 PM
Naphthalene	ND		1.05	µg/m3	1	1/15/2019 07:28 PM
o-Xylene	ND		2.17	µg/m3	1	1/15/2019 07:28 PM
Propene	ND		0.861	µg/m3	1	1/15/2019 07:28 PM
Styrene	ND		2.13	µg/m3	1	1/15/2019 07:28 PM
Tetrachloroethene	ND		3.39	µg/m3	1	1/15/2019 07:28 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	1/15/2019 07:28 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; 2024-90

Sample ID: WT-FH-1-4-19

Collection Date: 1/4/2019

Work Order: 1901101

Lab ID: 1901101-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	1/15/2019 07:28 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	1/15/2019 07:28 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	1/15/2019 07:28 PM
Trichloroethene	ND		1.07	µg/m3	1	1/15/2019 07:28 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	1/15/2019 07:28 PM
Vinyl acetate	ND		1.76	µg/m3	1	1/15/2019 07:28 PM
Vinyl chloride	ND		1.28	µg/m3	1	1/15/2019 07:28 PM
<i>Surr: Bromofluorobenzene</i>	105		60-140	%REC	1	1/15/2019 07:28 PM

Note:

ALS Environmental

Date: 21-Jan-19

Client: Southwest Ohio Air Quality Agency
Work Order: 1901101
Project: Winton Terrace; 2024-90

QC BATCH REPORT

Batch ID: **R160694** Instrument ID: **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R160694			Units: ppbv		Analysis Date: 1/15/2019 03:47 PM			
Client ID:		Run ID: VMS4_190115A			SeqNo: 1903742		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	0.50								
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	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
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	0.50								
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.

Client: Southwest Ohio Air Quality Agency

Work Order: 1901101

Project: Winton Terrace; 2024-90

QC BATCH REPORT

Batch ID: R160694	Instrument ID: VMS4	Method: ETO-15						
Freon 113	ND	0.50						
Freon 114	ND	0.50						
Heptane	ND	0.50						
Hexachlorobutadiene	ND	0.50						
Hexane	ND	0.50						
m,p-Xylene	ND	0.50						
Methylene chloride	ND	1.0						
MTBE	ND	0.50						
Naphthalene	ND	0.20						
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	0.50						
Vinyl chloride	ND	0.50						
<i>Surr: Bromofluorobenzene</i>	10.17	0	10	0	102	60-140	0	

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

Client: Southwest Ohio Air Quality Agency
 Work Order: 1901101
 Project: Winton Terrace; 2024-90

QC BATCH REPORT

Batch ID: **R160694** Instrument ID: **VMS4** Method: **ETO-15**

ics		Sample ID: LCS-R160694			Units: ppbv		Analysis Date: 1/15/2019 03:03 PM			
Client ID:		Run ID: VMS4_190115A			SeqNo: 1903741		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	10.15	0.50	10	0	102	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.47	0.50	10	0	94.7	60-140	0			
1,1,2-Trichloroethane	9.24	0.50	10	0	92.4	60-140	0			
1,1-Dichloroethane	9.99	0.50	10	0	99.9	60-140	0			
1,1-Dichloroethene	10.55	0.50	10	0	106	60-140	0			
1,2,4-Trichlorobenzene	7.06	0.50	10	0	70.6	49.3-150	0			
1,2,4-Trimethylbenzene	9.71	0.50	10	0	97.1	50.1-162	0			
1,2-Dibromoethane	9.39	0.50	10	0	93.9	60-140	0			
1,2-Dichlorobenzene	8.83	0.50	10	0	88.3	41.9-141	0			
1,2-Dichloroethane	10.82	0.50	10	0	108	60-140	0			
1,2-Dichloropropane	9.73	0.50	10	0	97.3	60-140	0			
1,3,5-Trimethylbenzene	9.52	0.50	10	0	95.2	60-140	0			
1,3-Butadiene	10.7	0.50	10	0	107	50.6-140	0			
1,3-Dichlorobenzene	8.89	0.50	10	0	88.9	60-140	0			
1,4-Dichlorobenzene	8.61	0.50	10	0	86.1	55.1-145	0			
1,4-Dioxane	8.59	1.0	10	0	85.9	60-140	0			
2-Butanone	9.47	0.50	10	0	94.7	60-140	0			
2-Hexanone	10.15	1.0	10	0	102	56.2-162	0			
2-Propanol	10.32	1.0	10	0	103	60-140	0			
4-Ethyltoluene	9.75	0.50	10	0	97.5	60-140	0			
4-Methyl-2-pentanone	10.76	1.0	10	0	108	60-140	0			
Acetone	11.28	1.0	10	0	113	60-140	0			
Benzene	8.79	0.50	10	0	87.9	60-140	0			
Benzyl chloride	9.25	0.50	10	0	92.5	31.9-174	0			
Bromodichloromethane	10.27	0.50	10	0	103	60-140	0			
Bromoform	8.62	0.50	10	0	86.2	60-140	0			
Bromomethane	8.34	0.50	10	0	83.4	60-140	0			
Carbon disulfide	9.42	0.50	10	0	94.2	60-140	0			
Carbon tetrachloride	10.09	0.50	10	0	101	60-140	0			
Chlorobenzene	8.67	0.50	10	0	86.7	60-140	0			
Chloroethane	9.8	0.50	10	0	98	60-140	0			
Chloroform	9.95	0.20	10	0	99.5	60-140	0			
Chloromethane	10.25	0.50	10	0	102	60-140	0			
cis-1,2-Dichloroethene	10.13	0.50	10	0	101	60-140	0			
cis-1,3-Dichloropropene	9.59	0.50	10	0	95.9	60-140	0			
Cumene	9.53	0.50	10	0	95.3	60-140	0			
Cyclohexane	8.89	0.50	10	0	88.9	60-140	0			
Dibromochloromethane	9.56	0.50	10	0	95.6	60-140	0			
Dichlorodifluoromethane	10.86	0.50	10	0	109	60-140	0			
Ethyl acetate	9.68	0.50	10	0	96.8	60-140	0			
Ethylbenzene	9.3	0.50	10	0	93	60-140	0			
Freon 113	9.59	0.50	10	0	95.9	60-140	0			

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

Client: Southwest Ohio Air Quality Agency

Work Order: 1901101

Project: Winton Terrace; 2024-90

QC BATCH REPORT

Batch ID: R160694	Instrument ID: VMS4	Method: ETO-15						
Freon 114	10.34	0.50	10	0	103	60-140	0	
Heptane	10.63	0.50	10	0	106	60-140	0	
Hexachlorobutadiene	8.61	0.50	10	0	86.1	60-140	0	
Hexane	10.87	0.50	10	0	109	60-140	0	
m,p-Xylene	19.02	0.50	20	0	95.1	60-140	0	
Methylene chloride	10.55	1.0	10	0	106	60-140	0	
MTBE	9.69	0.50	10	0	96.9	60.8-151	0	
Naphthalene	7.29	0.20	10	0	72.9	53.1-152	0	
o-Xylene	9.6	0.50	10	0	96	60-140	0	
Propene	10.44	0.50	10	0	104	34.4-139	0	
Styrene	9.14	0.50	10	0	91.4	60-140	0	
Tetrachloroethene	8.52	0.50	10	0	85.2	60-140	0	
Tetrahydrofuran	9.83	0.50	10	0	98.3	60-140	0	
Toluene	8.57	0.50	10	0	85.7	60-140	0	
trans-1,2-Dichloroethene	8.78	0.50	10	0	87.8	60-140	0	
trans-1,3-Dichloropropene	9.9	0.50	10	0	99	60-140	0	
Trichloroethene	9.53	0.20	10	0	95.3	60-140	0	
Trichlorofluoromethane	10.45	0.50	10	0	104	60-140	0	
Vinyl acetate	11.55	0.50	10	0	116	48.4-145	0	
Vinyl chloride	11.82	0.50	10	0	118	60-140	0	
<i>Surr: Bromofluorobenzene</i>	10.59	0	10	0	106	60-140	0	

The following samples were analyzed in this batch:

1901101-01A 1901101-02A

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

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; 2024-90
WorkOrder: 1901101

**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/m ³	
ppbv	

Sample Receipt Checklist

Client Name: **SOUTHWESTOH-CINCINNATI**

Date/Time Received: **07-Jan-19 13:55**

Work Order: **1901101**

Received by: **JNW**

Checklist completed by: Jan Wilcox 07-Jan-19
eSignature Date

Reviewed by: Rob Nieman 09-Jan-19
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: