19-Aug-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 Work Order: **1908110**

Dear Kerri,

ALS Environmental received 2 samples on 02-Aug-2019 10:30 AM 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

ALS Environmental

Date: 19-Aug-19

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: **1908110**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1908110-01	Wtcraft 8-1-19	Air		8/1/2019	8/2/2019 10:30	☐
1908110-02	WTFH 8-1-19	Air		8/1/2019	8/2/2019 10:30	☐

ALS Environmental

Date: 19-Aug-19

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110

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: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: Wtcraft 8-1-19
Lab ID: 1908110-01
Collection Date: 8/1/2019
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	8/8/2019 02:52 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,3-Butadiene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
1,4-Dioxane	ND		1.0	ppbv	1	8/8/2019 02:52 PM
2-Butanone	ND		0.50	ppbv	1	8/8/2019 02:52 PM
2-Hexanone	ND		1.0	ppbv	1	8/8/2019 02:52 PM
2-Propanol	**1.4**		**1.0**	**ppbv**	1	8/8/2019 02:52 PM
4-Ethyltoluene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/8/2019 02:52 PM
Acetone	**3.2**		**1.0**	**ppbv**	1	8/8/2019 02:52 PM
Benzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Benzyl chloride	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Bromodichloromethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Bromoform	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Bromomethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Carbon disulfide	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Carbon tetrachloride	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Chlorobenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Chloroethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Chloroform	ND		0.20	ppbv	1	8/8/2019 02:52 PM
Chloromethane	**0.88**		**0.50**	**ppbv**	1	8/8/2019 02:52 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Cumene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Cyclohexane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Dibromochloromethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Dichlorodifluoromethane	**0.58**		**0.50**	**ppbv**	1	8/8/2019 02:52 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: Wtcraft 8-1-19
Lab ID: 1908110-01
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Ethylbenzene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Freon 113	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Freon 114	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Heptane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Hexane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
m,p-Xylene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Methylene chloride	ND		2.0	ppbv	1	8/8/2019 02:52 PM
MTBE	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Naphthalene	ND		0.20	ppbv	1	8/8/2019 02:52 PM
o-Xylene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Propene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Styrene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Tetrachloroethene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Tetrahydrofuran	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Toluene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Trichloroethene	ND		0.20	ppbv	1	8/8/2019 02:52 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Vinyl acetate	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Vinyl chloride	ND		0.50	ppbv	1	8/8/2019 02:52 PM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	1	8/8/2019 02:52 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/8/2019 02:52 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/8/2019 02:52 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/8/2019 02:52 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/8/2019 02:52 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 02:52 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/8/2019 02:52 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/8/2019 02:52 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/8/2019 02:52 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 02:52 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/8/2019 02:52 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/8/2019 02:52 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/8/2019 02:52 PM
1,3-Butadiene	ND		1.11	µg/m3	1	8/8/2019 02:52 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 02:52 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 02:52 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: Wtcraft 8-1-19
Lab ID: 1908110-01
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/8/2019 02:52 PM
2-Butanone	ND		1.47	µg/m3	1	8/8/2019 02:52 PM
2-Hexanone	ND		4.10	µg/m3	1	8/8/2019 02:52 PM
2-Propanol	**3.54**		**2.46**	**µg/m3**	1	8/8/2019 02:52 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/8/2019 02:52 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/8/2019 02:52 PM
Acetone	**7.63**		**2.38**	**µg/m3**	1	8/8/2019 02:52 PM
Benzene	ND		1.60	µg/m3	1	8/8/2019 02:52 PM
Benzyl chloride	ND		2.59	µg/m3	1	8/8/2019 02:52 PM
Bromodichloromethane	ND		3.35	µg/m3	1	8/8/2019 02:52 PM
Bromoform	ND		5.17	µg/m3	1	8/8/2019 02:52 PM
Bromomethane	ND		1.94	µg/m3	1	8/8/2019 02:52 PM
Carbon disulfide	ND		1.56	µg/m3	1	8/8/2019 02:52 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/8/2019 02:52 PM
Chlorobenzene	ND		2.30	µg/m3	1	8/8/2019 02:52 PM
Chloroethane	ND		1.32	µg/m3	1	8/8/2019 02:52 PM
Chloroform	ND		0.976	µg/m3	1	8/8/2019 02:52 PM
Chloromethane	**1.82**		**1.03**	**µg/m3**	1	8/8/2019 02:52 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 02:52 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/8/2019 02:52 PM
Cumene	ND		2.46	µg/m3	1	8/8/2019 02:52 PM
Cyclohexane	ND		1.72	µg/m3	1	8/8/2019 02:52 PM
Dibromochloromethane	ND		4.26	µg/m3	1	8/8/2019 02:52 PM
Dichlorodifluoromethane	**2.87**		**2.47**	**µg/m3**	1	8/8/2019 02:52 PM
Ethyl acetate	ND		1.80	µg/m3	1	8/8/2019 02:52 PM
Ethylbenzene	ND		2.17	µg/m3	1	8/8/2019 02:52 PM
Freon 113	ND		3.83	µg/m3	1	8/8/2019 02:52 PM
Freon 114	ND		3.50	µg/m3	1	8/8/2019 02:52 PM
Heptane	ND		2.05	µg/m3	1	8/8/2019 02:52 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/8/2019 02:52 PM
Hexane	ND		1.76	µg/m3	1	8/8/2019 02:52 PM
m,p-Xylene	ND		2.17	µg/m3	1	8/8/2019 02:52 PM
Methylene chloride	ND		7.00	µg/m3	1	8/8/2019 02:52 PM
MTBE	ND		1.80	µg/m3	1	8/8/2019 02:52 PM
Naphthalene	ND		1.05	µg/m3	1	8/8/2019 02:52 PM
o-Xylene	ND		2.17	µg/m3	1	8/8/2019 02:52 PM
Propene	ND		0.861	µg/m3	1	8/8/2019 02:52 PM
Styrene	ND		2.13	µg/m3	1	8/8/2019 02:52 PM
Tetrachloroethene	ND		3.39	µg/m3	1	8/8/2019 02:52 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/8/2019 02:52 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: Wtcraft 8-1-19
Lab ID: 1908110-01
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	8/8/2019 02:52 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 02:52 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/8/2019 02:52 PM
Trichloroethene	ND		1.07	µg/m3	1	8/8/2019 02:52 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/8/2019 02:52 PM
Vinyl acetate	ND		1.76	µg/m3	1	8/8/2019 02:52 PM
Vinyl chloride	ND		1.28	µg/m3	1	8/8/2019 02:52 PM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	1	8/8/2019 02:52 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: WTFH 8-1-19
Lab ID: 1908110-02
Collection Date: 8/1/2019
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	8/8/2019 03:37 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,3-Butadiene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
1,4-Dioxane	ND		1.0	ppbv	1	8/8/2019 03:37 PM
2-Butanone	ND		0.50	ppbv	1	8/8/2019 03:37 PM
2-Hexanone	ND		1.0	ppbv	1	8/8/2019 03:37 PM
2-Propanol	**1.7**		**1.0**	**ppbv**	1	8/8/2019 03:37 PM
4-Ethyltoluene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/8/2019 03:37 PM
Acetone	**4.2**		**1.0**	**ppbv**	1	8/8/2019 03:37 PM
Benzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Benzyl chloride	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Bromodichloromethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Bromoform	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Bromomethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Carbon disulfide	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Carbon tetrachloride	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Chlorobenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Chloroethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Chloroform	ND		0.20	ppbv	1	8/8/2019 03:37 PM
Chloromethane	**0.53**		**0.50**	**ppbv**	1	8/8/2019 03:37 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Cumene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Cyclohexane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Dibromochloromethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Dichlorodifluoromethane	**0.59**		**0.50**	**ppbv**	1	8/8/2019 03:37 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: WTFH 8-1-19
Lab ID: 1908110-02
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Ethylbenzene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Freon 113	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Freon 114	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Heptane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Hexane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
m,p-Xylene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Methylene chloride	ND		2.0	ppbv	1	8/8/2019 03:37 PM
MTBE	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Naphthalene	ND		0.20	ppbv	1	8/8/2019 03:37 PM
o-Xylene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Propene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Styrene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Tetrachloroethene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Tetrahydrofuran	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Toluene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Trichloroethene	ND		0.20	ppbv	1	8/8/2019 03:37 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Vinyl acetate	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Vinyl chloride	ND		0.50	ppbv	1	8/8/2019 03:37 PM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	1	8/8/2019 03:37 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/8/2019 03:37 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/8/2019 03:37 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/8/2019 03:37 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/8/2019 03:37 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 03:37 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/8/2019 03:37 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/8/2019 03:37 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/8/2019 03:37 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 03:37 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/8/2019 03:37 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/8/2019 03:37 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/8/2019 03:37 PM
1,3-Butadiene	ND		1.11	µg/m3	1	8/8/2019 03:37 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 03:37 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/8/2019 03:37 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: WTFH 8-1-19
Lab ID: 1908110-02
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/8/2019 03:37 PM
2-Butanone	ND		1.47	µg/m3	1	8/8/2019 03:37 PM
2-Hexanone	ND		4.10	µg/m3	1	8/8/2019 03:37 PM
2-Propanol	**4.20**		**2.46**	**µg/m3**	1	8/8/2019 03:37 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/8/2019 03:37 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/8/2019 03:37 PM
Acetone	**10.1**		**2.38**	**µg/m3**	1	8/8/2019 03:37 PM
Benzene	ND		1.60	µg/m3	1	8/8/2019 03:37 PM
Benzyl chloride	ND		2.59	µg/m3	1	8/8/2019 03:37 PM
Bromodichloromethane	ND		3.35	µg/m3	1	8/8/2019 03:37 PM
Bromoform	ND		5.17	µg/m3	1	8/8/2019 03:37 PM
Bromomethane	ND		1.94	µg/m3	1	8/8/2019 03:37 PM
Carbon disulfide	ND		1.56	µg/m3	1	8/8/2019 03:37 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/8/2019 03:37 PM
Chlorobenzene	ND		2.30	µg/m3	1	8/8/2019 03:37 PM
Chloroethane	ND		1.32	µg/m3	1	8/8/2019 03:37 PM
Chloroform	ND		0.976	µg/m3	1	8/8/2019 03:37 PM
Chloromethane	**1.09**		**1.03**	**µg/m3**	1	8/8/2019 03:37 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 03:37 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/8/2019 03:37 PM
Cumene	ND		2.46	µg/m3	1	8/8/2019 03:37 PM
Cyclohexane	ND		1.72	µg/m3	1	8/8/2019 03:37 PM
Dibromochloromethane	ND		4.26	µg/m3	1	8/8/2019 03:37 PM
Dichlorodifluoromethane	**2.92**		**2.47**	**µg/m3**	1	8/8/2019 03:37 PM
Ethyl acetate	ND		1.80	µg/m3	1	8/8/2019 03:37 PM
Ethylbenzene	ND		2.17	µg/m3	1	8/8/2019 03:37 PM
Freon 113	ND		3.83	µg/m3	1	8/8/2019 03:37 PM
Freon 114	ND		3.50	µg/m3	1	8/8/2019 03:37 PM
Heptane	ND		2.05	µg/m3	1	8/8/2019 03:37 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/8/2019 03:37 PM
Hexane	ND		1.76	µg/m3	1	8/8/2019 03:37 PM
m,p-Xylene	ND		2.17	µg/m3	1	8/8/2019 03:37 PM
Methylene chloride	ND		7.00	µg/m3	1	8/8/2019 03:37 PM
MTBE	ND		1.80	µg/m3	1	8/8/2019 03:37 PM
Naphthalene	ND		1.05	µg/m3	1	8/8/2019 03:37 PM
o-Xylene	ND		2.17	µg/m3	1	8/8/2019 03:37 PM
Propene	ND		0.861	µg/m3	1	8/8/2019 03:37 PM
Styrene	ND		2.13	µg/m3	1	8/8/2019 03:37 PM
Tetrachloroethene	ND		3.39	µg/m3	1	8/8/2019 03:37 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/8/2019 03:37 PM

Note:

ALS Environmental

Date: *19-Aug-19*

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 1908110
Sample ID: WTFH 8-1-19
Lab ID: 1908110-02
Collection Date: 8/1/2019
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	8/8/2019 03:37 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/8/2019 03:37 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/8/2019 03:37 PM
Trichloroethene	ND		1.07	µg/m3	1	8/8/2019 03:37 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/8/2019 03:37 PM
Vinyl acetate	ND		1.76	µg/m3	1	8/8/2019 03:37 PM
Vinyl chloride	ND		1.28	µg/m3	1	8/8/2019 03:37 PM
Surr: Bromofluorobenzene	*107*		*60-140*	*%REC*	1	8/8/2019 03:37 PM

Note:

Batch ID: **R168611** Instrument ID **VMS4** Method: **ETO-15**

mblk Sample ID: **MBLK-R168611** Units: **ppbv** Analysis Date: **8/8/2019 02:08 PM**

Client ID: Run ID: **VMS4_190808A** SeqNo: **2065571** 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.

Batch ID: **R168611**	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	2.0					
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					
Surr: Bromofluorobenzene	10.12	0	*10*	0	*101*	*60-140*	0

Client: Southwest Ohio Air Quality Agency
Work Order: 1908110
Project: Winton Terrace

QC BATCH REPORT

Batch ID: **R168611** Instrument ID **VMS4** Method: **ETO-15**

lcs Sample ID: **LCS-R168611** Units: **ppbv** Analysis Date: **8/8/2019 01:24 PM**
Client ID: Run ID: **VMS4_190808A** SeqNo: **2065570** 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	10.54	0.50	10	0	105	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.31	0.50	10	0	93.1	60-140	0			
1,1,2-Trichloroethane	9.73	0.50	10	0	97.3	60-140	0			
1,1-Dichloroethane	9.42	0.50	10	0	94.2	60-140	0			
1,1-Dichloroethene	9.89	0.50	10	0	98.9	60-140	0			
1,2,4-Trichlorobenzene	8.65	0.50	10	0	86.5	49.3-150	0			
1,2,4-Trimethylbenzene	10.68	0.50	10	0	107	50.1-162	0			
1,2-Dibromoethane	10.14	0.50	10	0	101	60-140	0			
1,2-Dichlorobenzene	10.26	0.50	10	0	103	41.9-141	0			
1,2-Dichloroethane	10.32	0.50	10	0	103	60-140	0			
1,2-Dichloropropane	9.1	0.50	10	0	91	60-140	0			
1,3,5-Trimethylbenzene	10.59	0.50	10	0	106	60-140	0			
1,3-Butadiene	9.4	0.50	10	0	94	50.6-140	0			
1,3-Dichlorobenzene	10.42	0.50	10	0	104	60-140	0			
1,4-Dichlorobenzene	10.34	0.50	10	0	103	55.1-145	0			
1,4-Dioxane	10	1.0	10	0	100	60-140	0			
2-Butanone	9.39	0.50	10	0	93.9	60-140	0			
2-Hexanone	11.6	1.0	10	0	116	56.2-162	0			
2-Propanol	9.57	1.0	10	0	95.7	60-140	0			
4-Ethyltoluene	10.71	0.50	10	0	107	60-140	0			
4-Methyl-2-pentanone	10.79	1.0	10	0	108	60-140	0			
Acetone	8.97	1.0	10	0	89.7	60-140	0			
Benzene	8.85	0.50	10	0	88.5	60-140	0			
Benzyl chloride	11.04	0.50	10	0	110	31.9-174	0			
Bromodichloromethane	10.42	0.50	10	0	104	60-140	0			
Bromoform	14.03	0.50	10	0	140	60-140	0			S
Bromomethane	10.8	0.50	10	0	108	60-140	0			
Carbon disulfide	8.86	0.50	10	0	88.6	60-140	0			
Carbon tetrachloride	11.02	0.50	10	0	110	60-140	0			
Chlorobenzene	9.58	0.50	10	0	95.8	60-140	0			
Chloroethane	10.91	0.50	10	0	109	60-140	0			
Chloroform	9.94	0.20	10	0	99.4	60-140	0			
Chloromethane	9.56	0.50	10	0	95.6	60-140	0			
cis-1,2-Dichloroethene	9.75	0.50	10	0	97.5	60-140	0			
cis-1,3-Dichloropropene	9.54	0.50	10	0	95.4	60-140	0			
Cumene	10.5	0.50	10	0	105	60-140	0			
Cyclohexane	8.99	0.50	10	0	89.9	60-140	0			
Dibromochloromethane	11.71	0.50	10	0	117	60-140	0			
Dichlorodifluoromethane	11.6	0.50	10	0	116	60-140	0			
Ethyl acetate	9.68	0.50	10	0	96.8	60-140	0			
Ethylbenzene	9.82	0.50	10	0	98.2	60-140	0			
Freon 113	10.05	0.50	10	0	100	60-140	0			

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

QC BATCH REPORT

Batch ID: **R168611** Instrument ID **VMS4** Method: **ETO-15**

Freon 114	10.68	0.50	10	0	107	60-140	0
Heptane	9.49	0.50	10	0	94.9	60-140	0
Hexachlorobutadiene	10.23	0.50	10	0	102	60-140	0
Hexane	9.19	0.50	10	0	91.9	60-140	0
m,p-Xylene	21.05	0.50	20	0	105	60-140	0
Methylene chloride	8.67	2.0	10	0	86.7	60-140	0
MTBE	9.86	0.50	10	0	98.6	60.8-151	0
Naphthalene	8.75	0.20	10	0	87.5	53.1-152	0
o-Xylene	10.17	0.50	10	0	102	60-140	0
Propene	11.41	0.50	10	0	114	34.4-139	0
Styrene	10.42	0.50	10	0	104	60-140	0
Tetrachloroethene	10.64	0.50	10	0	106	60-140	0
Tetrahydrofuran	9.49	0.50	10	0	94.9	60-140	0
Toluene	9.6	0.50	10	0	96	60-140	0
trans-1,2-Dichloroethene	9.46	0.50	10	0	94.6	60-140	0
trans-1,3-Dichloropropene	9.52	0.50	10	0	95.2	60-140	0
Trichloroethene	9.87	0.20	10	0	98.7	60-140	0
Trichlorofluoromethane	10.89	0.50	10	0	109	60-140	0
Vinyl acetate	10.07	0.50	10	0	101	48.4-145	0
Vinyl chloride	10.35	0.50	10	0	104	60-140	0
Surr: Bromofluorobenzene	10.53	0	*10*	0	*105*	*60-140*	0

The following samples were analyzed in this batch: 1908110-01A 1908110-02A

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

ALS Environmental

Date: 19-Aug-19

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
WorkOrder: **1908110**

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	

ALS Environmental

Sample Receipt Checklist

Client Name: **SOUTHWESTOH-CINCINNATI** Date/Time Received: **02-Aug-19 10:30**

Work Order: **1908110** Received by: **SNH**

Checklist completed by Stephanie Harrington 02-Aug-19 Reviewed by: Rob Nieman 07-Aug-19

eSignature | Date | 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: