

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856)858-4800 / (856)858-4571

<http://www.EMSL.com> to15lab@EMSL.com

EMSL Order #: **491900000**
 EMSL Sample #: **491900000-1**
 Customer ID: **EMSL50**
 Customer PO: **Not Available**

Attn: **Lance Romance**
EMSL Analytical -Air Toxics Lab
200 US Route 130N
Cinnaminson, NJ 08077

Phone: **800-220-3675**
 Fax: **856-786-0327**
 Date Collected: **Not Provided**
 Date Received: **Not Provided**

Project: **Example Report for Clients**Sample ID: **Barb's Bird Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	04/24/2018	KW	L1792.D	HD2761	250 cc	1
Dilution1	04/20/2018	KW	L1773.D	HD2761	25 cc	10
Dilution2	04/24/2018	TP	L1798.D	HD2761	25 cc	30

USEPA Vapor Intrusion Screening Levels (VISL)

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Indoor Air ug/m3	Sub Slab/ Ext. ug/m3
Propylene	NC	115-07-1	42.08	ND		ND	3129	104286
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	104	3476
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	N.E.	N.E.
Chloromethane	NC	74-87-3	50.49	0.67		1.4	93.9	3129
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.	N.E.
Vinyl chloride	C	75-01-4	62.50	ND		ND	0.168	5.59
1,3-Butadiene	C	106-99-0	54.09	ND		ND	0.0936	3.12
Bromomethane	NC	74-83-9	94.94	ND		ND	5.21	174
Chloroethane	NC	75-00-3	64.52	ND		ND	10429	347619
Ethanol	--	64-17-5	46.07	2.6		4.9	N.E.	N.E.
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	0.0877	2.92
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	N.E.	N.E.
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	ND		ND	209	6952
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	5214	173810
Acetone	NC	67-64-1	58.08	4.6		11	32329	1077619
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	209	6952
Acetonitrile	NC	75-05-8	41.00	ND		ND	62.6	2086
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	N.E.	N.E.
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	N.E.	N.E.
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	0.468	15.6
Carbon disulfide	NC	75-15-0	76.14	ND		ND	730	24333
Methylene chloride	C	75-09-2	84.94	ND		ND	101	3380
Acrylonitrile	C	107-13-1	53.00	ND		ND	0.0413	1.38
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	10.8	360
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	N.E.	N.E.
n-Hexane	NC	110-54-3	86.17	220	D	770	730	24333
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	1.75	58.5
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	209	6952
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	5214	173810
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	N.E.	N.E.
Ethyl acetate	NC	141-78-6	88.10	ND		ND	73.0	2433
Chloroform	C	67-66-3	119.40	ND		ND	0.122	4.07
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	2086	69524
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	5214	173810
Cyclohexane	NC	110-82-7	84.16	34		120	6257	208571
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	100	D	480	N.E.	N.E.
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	0.468	15.6
n-Heptane	NC	142-82-5	100.20	15		63	417	13905
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	0.108	3.60
Benzene	C	71-43-2	78.11	13		42	0.360	12.0
Trichloroethene	C	79-01-6	131.40	ND		ND	0.478	15.9
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	0.759	25.3
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	730	24333
Bromodichloromethane	C	75-27-4	163.80	ND		ND	0.0759	2.53

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USEPA Vapor Intrusion Screening Levels (VISL)

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Indoor Air ug/m3	>	Sub Slab/ Ext. ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	0.562		18.7	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	3129		104286	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	0.702		23.4	
Toluene	NC	108-88-3	92.14	7.7		29	5214		173810	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	0.702		23.4	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	0.175		5.85	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	31.3		1043	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	10.8		360	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	0.00468		0.156	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	52.1		1738	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	1.12		37.4	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	104		3476	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	104		3476	
Styrene	NC	100-42-5	104.10	ND		ND	1043		34762	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	417		13905	
Bromoform	C	75-25-2	252.80	ND		ND	2.55		85.1	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	0.0484		1.61	
4-Ethyltoluene	--	622-96-8	120.20	ND		ND	N.E.		N.E.	
1,3,5-Trimethylbenzene	NC	108-67-8	120.20	ND		ND	62.6		2086	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	N.E.		N.E.	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	ND		ND	62.6		2086	
1,3-Dichlorobenzene	--	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	C	106-46-7	147.00	ND		ND	0.255		8.51	
Benzyl chloride	C	100-44-7	126.00	ND		ND	0.0573		1.91	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	209		6952	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	2.09		69.5	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	0.128		4.25	
Naphthalene	C	91-20-3	128.17	ND		ND	0.0826		2.75	

**The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedences as marked

Exposure Limit Definitions

RSL= Regional Screening Level at Target Hazard Quotient (THQ) =0.1 if available, otherwise THQ = 1

Agency Definitions

USEPA= United States Environmental Protection Agency

Reference

EPA Vapor Intrusion Screening Levels (VISL), March 2012

Toxicity Class (EPA Regional Screening Levels (RSL) Table, Nov 2018)Carcinogenic (C) Exceedence

Value exceeds the theoretical risk that 1 additional case of cancer will occur in a population of 1 million than statistically expected. Thus is a theoretical risk and not an actual epidemiological one.

NonCarcinogenic (NC) Exceedence

Value exceeds the theoretical risk that 1 in a population of 100,000 will experience deliterious health effects. Thus is a theoretical risk and not an actual epidemiological one.

Compound Exposure Definitions

NE= No Limit Established

LFC= Lowest Feasible Concentration

NS= No Screening Value

Qualifier Definitions

ND = Non Detect

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.