



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

North Carolina DEQ DWM- Non-Residential Vapor Intrusion Screening Concentrations

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Sub Slab/ Ext. ug/m3	Indoor Air ug/m3
Propylene	NC	115-07-1	42.08	ND		ND	260000	2600
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	8800	88.0
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	7900	79.0
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.	N.E.
Vinyl chloride	C	75-01-4	62.50	ND		ND	2800	2.80
1,3-Butadiene	C	106-99-0	54.09	ND		ND	180	0.410
Bromomethane	NC	74-83-9	94.94	ND		ND	440	4.40
Chloroethane	NC	75-00-3	64.52	ND		ND	880000	8800
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	260	0.380
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	18000	180
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	440000	4400
Acetone	NC	67-64-1	58.08	4.6		11	2700000	27000
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	18000	180
Acetonitrile	NC	75-05-8	41.00	ND		ND	5300	53.0
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	440	4.40
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	88.0	0.880
Carbon disulfide	NC	75-15-0	76.14	ND		ND	61000	610
Methylene chloride	C	75-09-2	84.94	ND		ND	53000	530
Acrylonitrile	C	107-13-1	53.00	ND		ND	180	0.180
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	47000	47.0
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	61000	610
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	7700	7.70
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	18000	180
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	440000	4400
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	6100	61.0
Chloroform	C	67-66-3	119.40	ND		ND	530	0.530
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	180000	1800
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	440000	4400
Cyclohexane	NC	110-82-7	84.16	34		120	530000	5300
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	2000	2.00
n-Heptane	NC	142-82-5	100.20	15		63	35000	350
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	470	0.470
Benzene	C	71-43-2	78.11	13		42	1600	1.60
Trichloroethene	C	79-01-6	131.40	ND		ND	180	1.80
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	350	3.30
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	61000	610
Bromodichloromethane	C	75-27-4	163.80	ND		ND	330	0.330



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Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Sub Slab/ Ext. ug/m3	>	Indoor Air ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	2500		2.50	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	260000		2600	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	1800		3.10	
Toluene	NC	108-88-3	92.14	7.7		29	440000		4400	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	1800		3.10	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	18.0		0.180	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	2600		26.0	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	3500		35.0	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	20.0		0.0200	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	4400		44.0	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	4900		4.90	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	8800		88.0	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	8800		88.0	
Styrene	NC	100-42-5	104.10	ND		ND	88000		880	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	35000		350	
Bromoform	C	75-25-2	252.80	ND		ND	11000		11.0	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	210		0.210	
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	5300		53.0	
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	5300		53.0	
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	1100		1.10	
Benzyl chloride	C	100-44-7	126.00	ND		ND	88.0		0.250	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	18000		180	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	180		1.80	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	560		0.560	
Naphthalene	C	91-20-3	128.17	ND		ND	260		0.360	

**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

PEL= Permissible Exposure Limit

Compound Exposure Definitions

NE= No Limit Established
 LFC= Lowest Feasible Concentration
 NS= No Screening Value

Agency Definitions

North Carolina Department of Environmental Quality

Reference

NC DEQ, Division of Waste Management Vapor Intrusion Screening Concentrations (February, 2018)

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.

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.