

**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- 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	21000		630	
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	700		21.0	
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	630		19.0	
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	56.0		0.170	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	14.0		0.0940	
Bromomethane	NC	74-83-9	94.94	ND		ND	35.0		1.00	
Chloroethane	NC	75-00-3	64.52	ND		ND	70000		2100	
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	21.0		0.0880	
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	1400		42.0	
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	35000		1000	
Acetone	NC	67-64-1	58.08	4.6		11	220000		6500	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	1400		42.0	
Acetonitrile	NC	75-05-8	41.00	ND		ND	420		13.0	
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	35.0		1.00	
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	7.00		0.210	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	4900		150	
Methylene chloride	C	75-09-2	84.94	ND		ND	4200		100	
Acrylonitrile	C	107-13-1	53.00	ND		ND	14.0		0.0410	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	3600		11.0	
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	4900		150	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	580		1.80	
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	1400		42.0	
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	35000		1000	
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	490		15.0	
Chloroform	C	67-66-3	119.40	ND		ND	41.0		0.120	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	14000		420	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	35000		1000	
Cyclohexane	NC	110-82-7	84.16	34		120	42000		1300	
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	160		0.470	
n-Heptane	NC	142-82-5	100.20	15		63	2800		83.0	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	36.0		0.110	
Benzene	C	71-43-2	78.11	13		42	120		0.360	
Trichloroethene	C	79-01-6	131.40	ND		ND	14.0		0.420	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	28.0		0.760	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	4900		150	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	25.0		0.0760	

**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- 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	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	190		0.560	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	21000		630	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	140		0.700	
Toluene	NC	108-88-3	92.14	7.7		29	35000		1000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	140		0.700	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	1.40		0.0420	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	210		6.30	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	280		8.30	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	1.60		0.00470	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	350		10.0	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	370		1.10	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	700		21.0	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	700		21.0	
Styrene	NC	100-42-5	104.10	ND		ND	7000		210	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	2800		83.0	
Bromoform	C	75-25-2	252.80	ND		ND	850		2.60	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	16.0		0.0480	
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	420		13.0	
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	420		13.0	
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	85.0		0.260	
Benzyl chloride	C	100-44-7	126.00	ND		ND	7.00		0.0570	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	1400		42.0	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	14.0		0.420	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	43.0		0.130	
Naphthalene	C	91-20-3	128.17	ND		ND	21.0		0.0830	

**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.