

**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](mailto: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

**NJDEP Vapor Intrusion Indoor Air Screening Levels**

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Non-Res. ug/m3	>
Propylene	NC	115-07-1	42.08	ND		ND	N.E.		N.E.	
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	100		440	
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	94.0		390	
n-Butane	--	106-97-8	58.12	630	D	1500	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	1.00		3.00	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	1.00		1.00	
Bromomethane	NC	74-83-9	94.94	ND		ND	5.00		22.0	
Chloroethane	NC	75-00-3	64.52	ND		ND	10000		44000	
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	2.00		2.00	
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	730		3100	
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	ND		ND	N.E.		N.E.	
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	31000		130000	
Acetone	NC	67-64-1	58.08	4.6		11	32000		140000	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	210		880	
Acetonitrile	NC	75-05-8	41.00	ND		ND	N.E.		N.E.	
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	66.0		92.0	
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	2.00		2.00	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	730		3100	
Methylene chloride	C	75-09-2	84.94	ND		ND	96.0		1200	
Acrylonitrile	C	107-13-1	53.00	ND		ND	N.E.		N.E.	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	9.00		47.0	
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	63.0		260	
n-Hexane	NC	110-54-3	86.17	220	D	770	730		3100	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	2.00		8.00	
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	N.E.		N.E.	
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	5200		22000	
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	N.E.		N.E.	
Chloroform	C	67-66-3	119.40	ND		ND	2.00		2.00	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	N.E.		N.E.	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	5500		22000	
Cyclohexane	NC	110-82-7	84.16	34		120	6300		26000	
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	3.00		3.00	
n-Heptane	NC	142-82-5	100.20	15		63	N.E.		N.E.	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	2.00		2.00	
Benzene	C	71-43-2	78.11	13		42	2.00		2.00	
Trichloroethene	C	79-01-6	131.40	ND		ND	3.00		3.00	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	2.00		2.00	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	N.E.		N.E.	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	3.00		3.00	

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**NJDEP Vapor Intrusion Indoor Air Screening Levels**

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential ug/m3	>	Non-Res. ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	N.E.		N.E.	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	3100		13000	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	2.00		3.00	
Toluene	NC	108-88-3	92.14	7.7		29	5200		22000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	2.00		3.00	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	3.00		3.00	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	N.E.		N.E.	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	9.00		47.0	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	4.00		4.00	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	4.00		4.00	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	52.0		220	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	2.00		5.00	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	100		440	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	100		440	
Styrene	NC	100-42-5	104.10	ND		ND	1000		4400	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	N.E.		N.E.	
Bromoform	C	75-25-2	252.80	ND		ND	5.00		11.0	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	3.00		3.00	
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	N.E.		N.E.	
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	N.E.		N.E.	
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	3.00		3.00	
Benzyl chloride	C	100-44-7	126.00	ND		ND	N.E.		N.E.	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	210		880	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	4.00		9.00	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	5.00		5.00	
Naphthalene	C	91-20-3	128.17	ND		ND	3.00		3.00	

\*\*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

RBC= Risk Based Concentration

Agency Definitions

NJDEP= New Jersey Department of Environmental Protection

Reference

NJDEP Site Remediation Program, Vapor Intrusion Technical Guidance, Jan 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.

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.