

**EMSL Analytical**

200 Route 130 North, Cinnaminson, NJ 08077

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

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

EMSL Order #: **491800000**
 EMSL Sample #: **491800000-1**
 Customer ID: **EMSL50**
 Customer PO: **NA**

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

Phone: **800-220-3675**
 Fax: **856-786-0327**
 Date Collected: **2/6/2018**
 Date Received: **2/7/2018**

Project: **Example format for clients**Sample ID: **Barb's Bird Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/13/2018	KW	K14736.D	HD4365	250 cc	1
Dilution1	02/14/2018	KW	K14753.D	HD4365	50 cc	5

Vermont DEP- Waste Management and Prevention Division, IROCP

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Shallow Soil Gas ug/m3	Deep Soil Gas ug/m3
Propylene	NC	115-07-1	42.08	ND		ND	NS	NS
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	2000	20000
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	NS	NS
Chloromethane	NC	74-87-3	50.49	0.78		1.6	900	9000
n-Butane	--	106-97-8	58.12	65	D	160	NS	NS
Vinyl chloride	C	75-01-4	62.50	ND		ND	1.10	11.0
1,3-Butadiene	C	106-99-0	54.09	ND		ND	0.330	3.30
Bromomethane	NC	74-83-9	94.94	ND		ND	50.0	500
Chloroethane	NC	75-00-3	64.52	ND		ND	NS	NS
Ethanol	--	64-17-5	46.07	450	DE	850	NS	NS
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	NS	NS
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	5620	56200
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	17		41	NS	NS
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	NS	NS
Acetone	NC	67-64-1	58.08	48	D	120	3150	31500
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	NS	NS
Acetonitrile	NC	75-05-8	41.00	ND		ND	NS	NS
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	NS	NS
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	NS	NS
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	1.00	10.0
Carbon disulfide	NC	75-15-0	76.14	ND		ND	6570	65700
Methylene chloride	C	75-09-2	84.94	ND		ND	21.0	210
Acrylonitrile	C	107-13-1	53.00	ND		ND	0.150	1.50
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	NS	NS
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	NS	NS
n-Hexane	NC	110-54-3	86.17	0.80		2.8	70000	700000
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	500	5000
Vinyl acetate	NC	108-05-4	86.00	ND		ND	200	2000
2-Butanone(MEK)	NC	78-93-3	72.10	1.5		4.4	50000	500000
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	NS	NS
Ethyl acetate	NC	141-78-6	88.10	4.4		16	NS	NS
Chloroform	C	67-66-3	119.40	1.0		5.1	3.80	38.0
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	NS	NS
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	10000	100000
Cyclohexane	NC	110-82-7	84.16	ND		ND	820	8200
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	0.85		4.0	NS	NS
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	4.10	41.0
n-Heptane	NC	142-82-5	100.20	ND		ND	NS	NS
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	NS	NS
Benzene	C	71-43-2	78.11	1.7		5.4	1180	11800
Trichloroethene	C	79-01-6	131.40	ND		ND	5.00	50.0
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	NS	NS
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	NS	NS
Bromodichloromethane	C	75-27-4	163.80	ND		ND	0.560	5.60

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Vermont DEP- Waste Management and Prevention Division, IROCP

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Shallow Soil Gas ug/m3	>	Deep Soil Gas ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	3.20		32.0	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	NS		NS	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	NS		NS	
Toluene	NC	108-88-3	92.14	3.7		14	30000		300000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	NS		NS	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	0.630		6.30	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	NS		NS	
Tetrachloroethene	C	127-18-4	165.80	3.0		20	5.70		57.0	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	0.420		4.20	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	0.0450		0.450	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	20.0		200	
Ethylbenzene	C	100-41-4	106.20	0.63		2.7	10000		100000	
Xylene (p,m)	NC	1330-20-7	106.20	1.9		8.3	10000		100000	
Xylene (Ortho)	NC	95-47-6	106.20	0.74		3.2	10000		100000	
Styrene	NC	100-42-5	104.10	ND		ND	1000		10000	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	NS		NS	
Bromoform	C	75-25-2	252.80	ND		ND	9.00		90.0	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	0.180		1.80	
4-Ethyltoluene	--	622-96-8	120.20	1.3		6.4	NS		NS	
1,3,5-Trimethylbenzene	NC	108-67-8	120.20	ND		ND	NS		NS	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	NS		NS	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	1.7		8.2	NS		NS	
1,3-Dichlorobenzene	--	541-73-1	147.00	ND		ND	NS		NS	
1,4-Dichlorobenzene	C	106-46-7	147.00	ND		ND	NS		NS	
Benzyl chloride	C	100-44-7	126.00	ND		ND	NS		NS	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	2000		20000	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	NS		NS	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	0.450		4.50	
Naphthalene	C	91-20-3	128.17	ND		ND	3.00		30.0	

**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

IROCP= Investigation and Remediation of Contaminated Properties Procedures

Agency Definitions

VTDEC- Vermont Department of Environmental Conservation

Reference

VT DEC, Waste Management Division/Sites Management Section, Investigation and Remediation of Contaminated Properties Procedures, April 2012

Toxicity Class (EPA Regional Screening Levels (RSL) Table, Nov 2017)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. This 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 deleterious health effects. This 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.