

**Table A.4.b**  
**Vapor Analytical Table - Indoor Air Results**  
**Former Minocqua Cleaners**  
**8576 Highway 51 North**  
**Minocqua, WI 54460**  
**BRRTS# 02-44-000113**

Sample Location-->						IA-1
Collected By-->						REI
Sample Date-->						5/15/2024
Exposure Scenario-->						SC
TO-15 VOC's (µg/m³)	CAS Number	carcinogen	Indoor Air VAL			
			Residential [R]	Small Commercial [SC]	Large Commercial/ Industrial [LC/I]	
Acetone	67-64-1	n	--	--	--	37
Benzene	71-43-2	c	3.6	16	16	0.54
Benzyl chloride	100-44-7	c	0.57	2.5	2.5	<0.209
Bromodichloromethane	75-27-4	c	0.76	3.3	3.3	<0.374
Bromoform	75-25-2	c	26	110	110	<0.414
Bromomethane	74-83-9	n	2.5	22	22	<0.2
1,3-Butadiene	106-99-0	c	0.9	4.1	4.1	<0.143
2-Butanone [Methyl Ethyl Ketone] (MEK)	78-93-3	n	5,300	22,000	22,000	1.33
Carbon disulfide	75-15-0	c	730	3,100	3,100	<0.138
Carbon tetrachloride	56-23-5	c	4.7	20	20	<0.307
Chlorobenzene	108-90-7	c	52	220	220	<0.251
Chloroethane [Ethyl Chloride]	75-00-3	n	4,200	18,000	18,000	<0.159
Chloroform	67-66-3	c	1.2	5.3	5.3	<0.3
Chloromethane	74-87-3	n	94	390	390	1.45 <sup>f</sup>
Cyclohexane	110-82-7	n	6,300	26,000	26,000	<0.212
Dibromochloromethane	124-48-1	--	--	--	--	<0.376
1,2-Dibromoethane (EDB)	106-93-4	c	0.047	0.20	0.20	<0.342
1,2-Dichlorobenzene	95-50-1	n	210	880	880	<0.235
1,3-Dichlorobenzene	541-73-1	--	--	--	--	<0.302
1,4-Dichlorobenzene	106-46-7	c	2.6	11	11	<0.302
Dichlorodifluoromethane	75-71-8	n	100	440	440	5.0
1,1-Dichloroethane	75-34-3	c	18	77	77	<0.187
1,2-Dichloroethane	107-06-2	c	1.1	4.7	4.7	<0.24
1,1-Dichloroethene	75-35-4	n	210	880	880	<0.21
cis-1,2-Dichloroethene	156-59-2	--	42	180	180	<0.197
trans-1,2-Dichloroethene	156-60-5	c	42	180	180	<0.231
1,2-Dichloropropane	78-87-5	n	4.2	18	18	<0.28
cis-1,3-Dichloropropene	10061-01-5	--	--	--	--	<0.234
trans-1,3-Dichloropropene	10061-02-6	--	--	--	--	<0.198
1,4-Dioxane	123-91-1	c	5.6	25	25	<0.157
Dichlorotetrafluoroethane	76-14-2	--	--	--	--	<0.446
Ethanol	64-17-5	--	--	--	--	15.8
Ethyl acetate	141-78-6	n	73	310	310	<0.176
Ethylbenzene	100-41-4	c	11	49	49	<0.203
4-Ethyltoluene	622-96-8	--	--	--	--	<0.214
n-Heptane	142-82-5	n	420	1,800	1,800	<0.265
Hexachloro-1,3-butadiene	87-68-3	c	1.3	5.6	5.6	<0.489
n-Hexane	110-54-3	n	730	3,100	3,100	1.62
2-Hexanone	591-78-6	n	31	130	130	<0.222
Methylene Chloride	75-09-2	n	630	2,600	2,600	6.8
4-Methyl-2-pentanone (MIBK)	108-11-2	n	3,100	13,000	13,000	0.78
Methyl Methacrylate	80-62-6	n	730	3,100	3,100	<0.217
Methyl-tert-butyl ether (MTBE)	1634-04-4	c	110	470	470	<0.16
Naphthalene	91-20-3	n	0.83	3.6	3.6	<0.675
2-Propanol [Isopropanol]	67-63-0	n	210	880	880	2.63
Propylene [Propene]	115-07-1	n	3,100	13,000	13,000	<0.079
Styrene	100-42-5	n	1,000	4,400	4,400	<0.181
1,1,2,2-Tetrachloroethane	79-34-5	c	0.48	2.1	2.1	<0.325
Tetrachloroethene (PCE)	127-18-4	n	42	180	180	1.15
Tetrahydrofuran	109-99-9	n	2,100	8,800	8,800	<0.131
Toluene	108-88-3	n	5,200	22,000	22,000	2.82
1,2,4-Trichlorobenzene	120-82-1	n	2.1	8.8	8.8	<0.657
1,1,1-Trichloroethane	71-55-6	n	5,200	22,000	22,000	<0.249
1,1,2-Trichloroethane	79-00-5	n	0.21	0.88	0.88	<0.258
Trichloroethene (TCE)	79-01-6	n	2.1	8.8	8.8	<0.237
Trichlorofluoromethane	75-69-4	n	--	--	--	2.13
1,1,2-Trichlorotrifluoroethane	76-13-1	n	5,200	22,000	22,000	<0.402
1,2,4-Trimethylbenzene (TMB)	95-63-6	n	63	260	260	0.49 <sup>f</sup>
1,3,5-Trimethylbenzene (TMB)	108-67-8	c	63	260	260	<0.232
Vinyl acetate	108-05-4	n	210	880	880	<0.203
Vinyl chloride	75-01-4	n	1.7	28	28	<0.148
Xylene, m,p-	1330-20-7	n	100	440	440	1.13 <sup>f</sup>
Xylene, o-						<0.218

**Notes:**

Indoor Air Standards based on US EPA Vapor Intrusion Screening Levels online calculator.

VAL Calculated on Date: **3/24/2023**

AF = Attenuation Factor

VAL = Vapor Action Level

VRSL = Vapor Risk Screening Level

< = Concentration Below Laboratory Detection Limit

-- = Not Sampled/Collected

-- = No Standard/Not Applicable

<sup>f</sup> = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)

c = carcinogen

n = non-carcinogen

Target Risk for Carcinogens = 1.00E-05

Target Hazard Quotient for Non-Carcinogens = 1

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