

Table 3  
 Indoor Air Sampling Analytical Results  
 902/904 Belknap  
 Superior, WI  
 17711000  
 BRRTS Site #02-16-560359

Compound/Parameter	CAS No.	Residential		Small Commercial		Sample Identifier and Date Collected														
		Wisconsin Indoor Air VAL	Wisconsin Subslab Vapor VRSL	Wisconsin Indoor Air VAL	Wisconsin Subslab VRSL	Building - Main Office Space				Upstairs Apartment			904 Belknap			Basement				
						IA-1	INDOOR AIR-9/7/17	IA-7	IA-11	IA-3	IA-5	IA-10	IA-4	IA-6	IA-9	IA-2	BASEMENT ROOM	IA-8	IA-12	IA-13
						05/17/17	09/07/17	10/25/17	07/25/18	05/17/17	10/25/17	07/25/18	05/17/17	10/25/17	07/25/18	05/17/17	06/08/17	10/25/17	07/25/18	04/10/19
Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
<b>Wisconsin Quick Look Up Compounds</b>																				
Volatile Organic Compounds (VOCs) reported in ug/m3 - Detected Compounds Only																				
Benzene	71-43-2	3.6	120	16	530	0.772	0.732	<0.489	0.732	0.708	<0.489	<0.489	2.32	<0.489	0.593	0.830	<0.639	<0.489	0.661	2.88
Carbon tetrachloride	56-23-5	4.7	160	20	670	<1.26	<1.26	<1.23	<1.23	<1.26	<1.23	<1.23	<1.26	<1.23	<1.23	<1.26	<1.26	<1.23	<1.23	<1.23
Chloroform	67-66-3	1.2	40	5.3	180	<0.973	<0.973	<0.93	<0.93	<0.973	<0.93	<0.930	<0.973	<0.93	<0.930	<0.973	<0.973	1.04	2.82	<0.930
Chloromethane	74-87-3	94	3,100	390	13,000	1.2	1.33	1.15	1.16	1.260	1.01	1.19	2.450	1.12	1.18	0.965	1.13	0.902	1.1	0.834
Dichlorofluoromethane	75-71-8	100	3,300	440	15,000	1.73	3.2	1.33	2.00	1.83	1.24	1.96	1.86	1.3	1.87	1.73	1.49	1.44	2.10	<0.382
1,1-Dichloroethane (1,1 DCA)	75-34-3	18	600	77	2,600	<0.802	<0.802	<0.685	<0.685	<0.802	<0.685	<0.685	<0.802	<0.685	<0.685	<0.802	<0.802	<0.685	<0.685	<0.685
1,2-Dichloroethane (1,2 DCA)	107-06-2	1.1	37.0	4.7	160.0	<0.81	<0.81	<0.83	<0.830	<0.81	<0.83	<0.830	<0.81	<0.83	<0.830	<0.81	<0.81	<0.83	<0.830	<0.830
1,1-Dichloroethene (1,1 DCE)	75-35-4	210	7,000	880	29,000	<0.793	<0.793	<0.646	<0.646	<0.793	<0.646	<0.646	<0.793	<0.646	<0.646	<0.793	<0.793	<0.646	<0.646	<0.646
cis-1,2-Dichloroethene	156-59-2	NA	NA	NA	NA	34.2	7.51	2.82	<0.515	21.5	1.97	<0.515	11.3	1.54	<0.515	130.0	76.1	66.9	72.7	52.9
trans-1,2-Dichloroethene	156-60-5	NA	NA	NA	NA	<0.793	<0.793	<0.614	<0.614	<0.793	<0.614	<0.614	<0.793	<0.614	<0.614	0.835	<0.793	0.68	0.75	<0.614
Ethylbenzene	100-41-4	11.0	370	49.0	1,600	<0.867	10.6	<0.733	<0.733	1.04	<0.733	<0.733	675	<0.733	<0.733	1.66	4.3	1.56	0.92	2.41
Methylene chloride (Dichloromethane)	75-09-2	630	21,000	2,600	87,000	4.15	3.04	0.582	<0.538	2.65	<0.538	2.36	1.98	0.952	0.625	17.6	19.9	6.97	11	117
Methyl-tert-butyl ether (Isopropyl ether or MTBE)	1634-04-4	110	3,700	470	16,000	<0.721	<0.721	<0.605	<0.605	<0.721	<0.605	<0.721	<0.605	<0.605	<0.721	<0.605	<0.721	<0.605	<0.605	<0.605
Naphthalene	91-20-3	0.83	28	3.6	120	<3.3	<3.3	<2.69	<2.69	<3.3	<2.69	<2.69	24.2	<2.69	<2.69	<3.3	<3.3	<2.69	<2.69	<2.69
Tetrachloroethene (PCE)	127-18-4	42	1,400	180	6,000	199	27.7	10.7	3.44	141	6.55	4.00	67.2	6.19	73	945	260	214	314	200
Toluene	108-88-3	5,200	170,000	22,000	730,000	12.9	15.7	5.15	2.88	13.4	4.38	2.55	325	7.44	2.70	15.3	51.7	16.4	11.1	37.9
1,1,1-Trichloroethane (1,1,1 TCA)	71-55-6	5,200	170,000	22,000	730,000	<1.09	<1.09	<1.21	<1.21	<1.09	<1.21	<1.21	<1.09	<1.21	<1.21	<1.09	<1.09	<1.21	<1.21	<1.21
Trichloroethene (TCE)	79-01-6	2.1	70	8.8	290	20	4.53	3.15	<0.975	13.2	1.08	<0.975	6.86	<0.975	<0.975	70.7	54.4	35.7	54.9	38.1
Trichlorofluoromethane	75-69-4	NA	NA	NA	NA	1.38	1.29	<1.26	1.31	1.23	<1.26	1.34	1.44	<1.26	1.36	1.36	1.28	1.57	1.91	1.3
1,2,4-Trimethylbenzene	95-63-6	63	2,100	260	8,700	1.42	1.42	<0.79	1.27	<0.982	<0.79	1.31	3,340	<0.79	1.5	2.98	2.56	5.06	2.88	5.5
1,3,5-Trimethylbenzene	108-67-8	63	2,100	260	8,700	<0.982	<0.982	<1.03	<1.03	<0.982	<1.03	<1.03	1,210	<1.03	<1.03	<0.982	<0.982	<1.03	<1.03	1.55
Vinyl chloride	75-01-4	1.7	57	28	930	3.29	0.519	0.759	<0.389	1.27	<0.389	<0.389	0.96	<0.389	<0.389	8.07	4.49	7.49	2.83	1.68
Total Xylenes	179601-23-1	100	3,300	440	15,000	4.26	49.6	1.85	3.414	3.88	1.69	<2.285	8.050	<2.285	1.88	9.27	21.97	10.58	5.32	12.57
<b>Detected Compounds</b>																				
Volatile Organic Compounds (VOCs) reported in ug/m3 - Detected Compounds Only																				
1,1-Difluoroethane	75-36-7	42,000	180,000			79.7	--	13.8	8.07	66.1	8.58	2.18	47.6	10.1	7.1	265	136	332	232	95.7
1,2,3-Trimethylbenzene	526-73-8	63	260			<0.982	--	<0.531	<0.531	<0.982	<0.531	<0.531	491*	<0.531	<0.531	1.1	<0.982	<0.531	0.903	1.2
2,2,4-Trimethylpentane	540-84-1	NE	NE			2.09	10.8	1.25	1.41	<0.934	1.62	0.72	498	1.02	0.98	<0.934	6.73	4.87	1.68	1.4
2-Butanone (MEK)	78-93-3	5,200	22,000			<3.69	4.68	3.16	4.16	<3.69	1.01	2.07	55.4	<0.484	1.85	6.35	6.26	<0.484	<0.484	<0.484
2-Propanol	67-63-0	NE	NE			4.92	33.8	3.00	9.85	9.37	2.38	5.42	30.5	2.64	58.5	<3.07	41	1.54	10.3	2.79
4-Ethyltoluene	622-96-8	NE	NE			1	<0.982	<1.09	<1.09	<0.982	<1.09	<1.09	3,750	<1.09	1.16	2.21	2.05	4.36	1.93	4.14
Acetone	67-64-1	32,000	140,000			30.3	61	28.1	112	38.3	19.3	40.9	209	16.7	418	28	54.2	35.8	154	50
Carbon Disulfide	75-15-0	730	3,100			<0.622	<0.622	<0.563	<0.563	0.771	<0.563	<0.563	<0.622	<0.563	<0.563	0.746	<0.622	<0.563	<0.563	<0.563
Chlorodifluoromethane	75-45-6	52,000	220,000			5.16	--	2.01	3.38	5.66	<0.382	3.6	10.8	1.5	3.1	6.93	16.5	5.35	4.99	<0.382
Chloroethane	75-00-3	NE	NE			<0.528	<0.528	<0.43	<0.430	<0.528	<0.43	<0.430	1.06	<0.43	<0.430	<0.528	<0.528	<0.43	<0.430	<0.430
Cyclohexane	110-82-7	6,300	26,000			9.36	1.06	0.769	<0.613	2.83	<0.613	<0.613	9.19	<0.613	<0.613	<0.689	1.11	<0.613	<0.613	0.831
Dichlorodifluoromethane	75-71-8	100	440			1.73	3.2	1.33	1.87	1.83	1.24	1.96	1.86	1.3	2.00	1.73	1.49	1.44	2.1	1.35
Ethanol	64-17-5	NE	NE			294	289	137	76.7	654	197	686	1,060	611	234	12	48	11.7	47.7	29.1
Ethyl Acetate	141-78-6	73	310			<0.72	--	<0.389	<0.389	1.15	<0.389	<0.389	<0.72	<0.389	5.17	<0.72	4.8	<0.389	<0.389	<0.367
Heptane	142-82-5	420	1,800			2.43	1.46	1.31	0.857	0.926	1.07	<0.855	66.2	<0.855	1.02	<0.818	1.73	4.44	0.875	2.37
Isopropylbenzene (Cumene)	98-82-8	420	1,800			<0.983	<0.983	<0.924	<0.924	<0.983	<0.924	<0.924	168	<0.924	<0.924	<0.983	<0.983	<0.924	<0.924	<0.924
Methyl Cyclohexane (Methyl Methacrylate)	80-62-6	730	3,100			1.4	--	<0.434	<0.434	<0.803	<0.434	<0.434	48.6	<0.434	<0.434	<0.803	4	<0.434	<0.434	1.48
N-Hexane	110-54-3	730	3,100			4.69	1.78	0.627	1.57	<0.705	<0.536	1.08	12.7	<0.536	1.09	<0.705	2.07	0.544	1.16	6.04
Styrene	100-42-5	1000	4,400			<0.851	2.09	<0.659	0.73	<0.851	<0.659	<0.659	<0.851	<0.659	<0.659	<0.851	3.79	<0.659	0.92	0.907
Tetrahydrofuran	109-99-9	NE	NE			<0.59	1.02	<0.498	<0.498	1.33	<0.498	<0.498	107	<0.498	<0.498	2.98	2.84	2.74	1.64	5.46
GRO (TPH (GC/MS) Low Fraction)		NE	NE			486	--	191	143	350	306	133	31,500	279	197	1,070	887	943	491	622

Notes:  
 Wisconsin Quick Look UP and Detected Compounds Only  
 Based on May 2018 US EPA Regional Screening Levels  
 Bold = Detected Concentration  
 Exceedance  
 EPA = Environmental Protection Agency  
 VAL = Vapor Action Level  
 VRSL = Vapor Risk Screening Level  
 NE = Vapor Action Level determined by 2017 EPA Vapor Risk Calculator Spreadsheet  
 <0.02 = Not Detected above laboratory reporting limits  
 -- = Not Analyzed  
 \* = Exceedance calculated using 2017 EPA Vapor Risk Calculator Spreadsheet