

Table A.4.
Vapor Analytical Results
Bay Cleaners/Jenior-Bagneski, LLC Property
201-207 S Main St
Thiensville, WI 53092

| Sample ID | Bay Cleaners Area | | | | Maintenance Shop Area | | | | WDNR Standards | | | | | | |
|--|-------------------|---------|--------|---------|-----------------------|---------|--------|---------|----------------|----------------|------------------|----------------|------------------|----------------|---------------|
| | SS-1 | | SS-2 | | SS-3 | | SS-4 | | Residential | | Small Commercial | | Large Commercial | | |
| | Date Collected | 2/21/20 | 1/6/22 | 8/17/21 | 1/6/22 | 8/17/21 | 1/6/22 | 8/17/21 | 1/6/22 | | AF = 0.03 | | AF = 0.03 | | AF = 0.01 |
| AA=Ambient Air/SS=Sub-Slab | SS | SS | SS | SS | SS | SS | SS | SS | SS | Indoor Air VAL | Sub-Slab VRSL | Indoor Air VAL | Sub-Slab VRSL | Indoor Air VAL | Sub-Slab VRSL |
| Volatile Organic Compounds (µg/m³) by EPA Method TO-15 | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | <0.57 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | <0.33 | 1.3 J | <0.33 | 5,200 | 170,000 | 22,000 | 730,000 | 22,000 | 2,200,000 |
| 1,1,2,2-Tetrachloroethane | <0.57 | <0.67 | <0.65 | <0.67 | <0.65 | <0.65 | <0.65 | <0.67 | <0.67 | 0.48 | 16 | 2.1 | 70 | 2 | 210 |
| 1,1,2-Trichloroethane | <0.44 | <0.35 | <0.34 | <0.35 | <0.34 | <0.34 | <0.34 | <0.35 | <0.35 | 1.8 | 60 | 7.7 | 260 | 7.7 | 770 |
| 1,1,2-Trichlorotrifluoroethane | <1.0 | <0.52 | 0.82 J | <0.52 | 1.3 J | <0.51 | 0.56 J | <0.52 | <0.52 | --- | --- | --- | --- | --- | --- |
| 1,1-Dichloroethane | <0.41 | <0.30 | <0.29 | <0.30 | <0.29 | <0.29 | <0.30 | <0.30 | <0.30 | 18 | 590 | 77 | 2,600 | 77 | 7,700 |
| 1,1-Dichloroethene | <0.50 | <0.25 | <0.24 | <0.25 | <0.24 | <0.24 | <0.25 | <0.25 | <0.25 | 210 | 7,000 | 880 | 29,000 | 880 | 88,000 |
| 1,2,4-Trichlorobenzene | <6.8 | 10.1 J | <8.5 | 10.0 J | <8.5 | 9.7 J | <8.7 | 10.0 J | 10.0 J | 21 | 700 | 88 | 2,900 | 88 | 8,800 |
| 1,2,4-Trimethylbenzene | 80.4 | 4.8 | 70.6 | 4.7 | 68.0 | 9.3 | 61.7 | 6.1 | 6.1 | 63 | 2,100 | 260 | 8,800 | 260 | 26,000 |
| 1,2-Dibromoethane (EDB) | <0.67 | <0.54 | <0.52 | <0.54 | <0.52 | <0.52 | <0.54 | <0.54 | <0.54 | 0.047 | 1.6 | 0.2 | 6.7 | 0.2 | 20 |
| 1,2-Dichlorobenzene | <0.91 | <0.72 | <0.71 | <0.72 | <0.71 | <0.71 | <0.72 | <0.72 | <0.72 | 210 | 7,000 | 880 | 29,000 | 880 | 88,000 |
| 1,2-Dichloroethane | <0.27 | <0.35 | 0.80 J | <0.35 | <0.34 | <0.34 | 0.57 J | <0.35 | <0.35 | 1.1 | 36 | 4.7 | 160 | 4.7 | 470 |
| 1,2-Dichloropropane | <0.42 | <0.48 | <0.47 | <0.48 | <0.47 | <0.47 | <0.48 | <0.48 | <0.48 | 3 | 93 | 12 | 400 | 12 | 1,200 |
| 1,3,5-Trimethylbenzene | 25.6 | 1.8 | 21.6 | 1.8 | 19.8 | 3.6 | 19.0 | 2.2 | 2.2 | 63 | 2,100 | 260 | 8,800 | 260 | 26,000 |
| 1,3-Butadiene | <0.23 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | <0.21 | 0.94 | 31 | 4.1 | 137 | 4.1 | 410 |
| 1,3-Dichlorobenzene | <1.1 | <0.91 | <0.89 | <0.91 | 3.1 J | <0.89 | <0.91 | <0.91 | <0.91 | --- | --- | --- | --- | --- | --- |
| 1,4-Dichlorobenzene | <1.8 | <1.6 | <1.5 | <1.6 | <1.5 | 2.7 J | <1.6 | 2.8 J | 2.8 J | 2.6 | 87 | 11 | 370 | 11 | 1,100 |
| 2-Butanone (MEK) | 21.2 | <0.83 | 29.9 | 3.5 J | 29.7 | <0.81 | 22.0 | <0.83 | <0.83 | 5,200 | 170,000 | 22,000 | 730,000 | 22,000 | 2,200,000 |
| 2-Hexanone | <1.4 | <0.79 | 2.4 J | <0.79 | 2.1 J | <0.77 | 2.4 J | <0.79 | <0.79 | 31 | 1,000 | 130 | 4,300 | 130 | 13,000 |
| 2-Propanol | 7.3 | 3.0 J | 29.8 | 1.6 J | 13.3 | <0.89 | 21.5 | 1.4 J | 1.4 J | --- | --- | --- | --- | --- | --- |
| 4-Ethyltoluene | 25.6 | 2.8 J | 24.6 | 2.9 J | 20.7 | 3.2 J | 19.6 | 3.1 J | 3.1 J | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-pentanone (MIBK) | 12.5 | 2.1 J | 24.7 | 2.1 J | 20.1 | 2.0 J | 21.2 | 2.7 J | 2.7 J | 3,100 | 100,000 | 13,000 | 430,000 | 13,000 | 1,300,000 |
| Acetone | 76.5 | 191 | 151 | 139 | 146 | 105 | 114 | 132 | 132 | 32,000 | 1,070,000 | 140,000 | 4,700,000 | 140,000 | 14,000,000 |
| Benzene | 30 | 9.8 | 39.0 | 9.4 | 29.2 | 8.5 | 21.7 | 9.3 | 9.3 | 3.6 | 120 | 16 | 520 | 16 | 1,600 |
| Benzyl chloride | <2.2 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | <1.6 | 0.57 | 19 | 2.5 | 84 | 2.5 | 250 |
| Bromodichloromethane | 1.3 J | <0.42 | <0.41 | <0.42 | <0.41 | <0.41 | <0.42 | <0.42 | <0.42 | 0.76 | 25 | 3.3 | 110 | 3.3 | 330 |
| Bromoform | <2.6 | <2.9 | <2.8 | <2.9 | <2.8 | <2.8 | <2.9 | <2.9 | <2.9 | 26 | 870 | 110 | 3,670 | 110 | 11,000 |
| Bromomethane | <0.42 | <0.27 | <0.26 | <0.27 | <0.26 | <0.26 | <0.27 | <0.27 | <0.27 | 5.2 | 170 | 22 | 730 | 22 | 2,200 |
| Carbon disulfide | 1.6 | 2.2 | 0.47 J | 0.24 J | 0.68 J | <0.23 | 0.80 J | <0.23 | <0.23 | 730 | 24,000 | 3,100 | 100,000 | 3,100 | 310,000 |
| Carbon tetrachloride | <0.79 | <0.50 | <0.49 | <0.50 | <0.49 | <0.49 | <0.50 | <0.50 | <0.50 | 4.7 | 160 | 20 | 680 | 20 | 2,000 |
| Chlorobenzene | <0.50 | <0.28 | <0.27 | <0.28 | <0.27 | <0.27 | <0.28 | <0.28 | <0.28 | 52 | 1,700 | 220 | 7,330 | 220 | 22,000 |
| Chloroethane | <0.48 | <0.40 | <0.39 | <0.40 | <0.39 | <0.39 | <0.40 | <0.40 | <0.40 | --- | --- | --- | --- | --- | --- |
| Chloroform | 3.1 | <0.33 | <0.32 | <0.33 | <0.32 | <0.32 | <0.33 | <0.33 | <0.33 | 1.2 | 41 | 5.3 | 180 | 5.3 | 530 |
| Chloromethane | <0.29 | <0.15 | 0.73 J | <0.15 | 0.77 | <0.15 | <0.15 | <0.15 | <0.15 | 94 | 3,100 | 390 | 13,000 | 390 | 39,000 |
| Cyclohexane | 147 | 24.8 | <0.39 | 24.4 | <0.39 | 22.4 | <0.40 | 24.5 | 24.5 | 6,300 | 21,000 | 26,000 | 870,000 | 26,000 | 2,600,000 |
| Dibromochloromethane | <1.3 | <0.92 | <0.90 | <0.92 | <0.90 | <0.90 | <0.92 | <0.92 | <0.92 | --- | --- | --- | --- | --- | --- |
| Dichlorodifluoromethane | 2.8 | 2.1 | 2.5 | 2.0 | 2.5 | 2.0 | 2.4 | 2.0 | 2.0 | 100 | 3,500 | 440 | 15,000 | 440 | 44,000 |
| Dichlorotetrafluoroethane | <0.80 | <0.36 | <0.35 | <0.36 | <0.35 | <0.35 | <0.36 | <0.36 | <0.36 | --- | --- | --- | --- | --- | --- |
| Ethanol | 421 | 103 | 373 | 100 | 312 | 84.4 | 171 | 98.7 | 98.7 | --- | --- | --- | --- | --- | --- |
| Ethyl acetate | <0.35 | <0.23 | 3.4 | <0.23 | 3.4 | <0.23 | 2.1 | <0.23 | <0.23 | 73 | 2,400 | 310 | 10,000 | 310 | 31,000 |
| Ethylbenzene | 69.3 | 6.0 | 51.6 | 6.0 | 36.0 | 6.0 | 39.1 | 7.0 | 7.0 | 11 | 370 | 49 | 1,600 | 49 | 4,900 |
| Hexachloro-1,3-butadiene | <3.6 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | 1.3 | 43 | 5.6 | 190 | 5.6 | 560 |
| Methyl-tert-butyl ether | <1.2 | <0.23 | <0.22 | <0.23 | <0.22 | <0.22 | <0.23 | <0.23 | <0.23 | 110 | 3,600 | 470 | 16,000 | 470 | 47,000 |
| Methylene Chloride | 5.0 J | <1.1 | 1.7 J | <1.1 | <1.0 | <1.0 | <1.1 | <1.1 | <1.1 | 630 | 21,000 | 2,600 | 88,000 | 2,600 | 260,000 |
| Naphthalene | 23.4 | <3.9 | 9.3 | <3.9 | 10.7 | <3.8 | 8.6 | <3.9 | <3.9 | 0.83 | 28 | 3.6 | 120 | 3.6 | 360 |
| Propylene | <0.26 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | <0.23 | 3,100 | 100,000 | 13,000 | 430,000 | 13,000 | 1,300,000 |
| Styrene | 3.6 | 1.5 J | 5.2 | 1.5 J | 3.6 | 1.5 | 3.7 | 1.6 | 1.6 | 1,000 | 330,000 | 4,400 | 150,000 | 4,400 | 440,000 |
| Tetrachloroethene | 180 | 13.1 | 45.2 | 13.0 | 7.4 | 12.4 | 200 | 14.8 | 14.8 | 42 | 1,400 | 180 | 5,800 | 180 | 18,000 |
| Tetrahydrofuran | <0.48 | 2.0 J | 36.2 | 2.2 J | 32.7 | 2.0 J | 24.7 | 2.4 J | 2.4 J | --- | --- | --- | --- | --- | --- |
| Toluene | 545 | 119 | 354 | 117 | 178 | 111 | 156 | 130 | 130 | 5,200 | 170,000 | 22,000 | 730,000 | 22,000 | 2,200,000 |
| Trichloroethene | 1.5 | <0.35 | <0.34 | <0.35 | <0.34 | <0.34 | <0.35 | <0.35 | <0.35 | 2.1 | 70 | 8.8 | 290 | 8.8 | 880 |
| Trichlorofluoromethane | 1.5 J | <0.42 | 1.3 J | <0.42 | 1.2 J | <0.41 | 1.2 J | <0.42 | <0.42 | --- | --- | --- | --- | --- | --- |
| Vinyl acetate | <0.49 | <0.37 | <0.36 | <0.37 | <0.36 | <0.36 | <0.37 | <0.37 | <0.37 | 210 | 7,000 | 880 | 29,000 | 880 | 88,000 |
| Vinyl chloride | <0.23 | <0.16 | <0.15 | <0.16 | <0.15 | <0.15 | <0.16 | <0.16 | <0.16 | 1.7 | 56 | 28 | 930 | 28 | 2,800 |
| cis-1,2-Dichloroethene | <0.40 | <0.35 | <0.34 | <0.35 | <0.34 | <0.34 | <0.35 | <0.35 | <0.35 | --- | --- | --- | --- | --- | --- |
| cis-1,3-Dichloropropene | <0.56 | <0.46 | <0.45 | <0.46 | <0.45 | <0.45 | <0.46 | <0.46 | <0.46 | --- | --- | --- | --- | --- | --- |
| m&p-Xylene | 247 | 19.4 | 178 | 19.7 | 125 | 20.1 | 128 | 22.7 | 22.7 | 100 | 3,500 | 440 | 15,000 | 440 | 44,000 |
| n-Heptane | 96.8 | 20.2 | 82.6 | 20.8 | 65.3 | 19.2 | 60.8 | 22.3 | 22.3 | --- | --- | --- | --- | --- | --- |
| n-Hexane | 105 | 32.4 | 68.2 | 22.1 | 63.8 | 16.1 | 63.7 | 18.4 | 18.4 | 730 | 24,000 | 3,100 | 100,000 | 3,100 | 310,000 |
| o-Xylene | 86.2 | 6.2 | 63.5 | 6.3 | 48.2 | 6.7 | 49.8 | 7.3 | 7.3 | 100 | 3,500 | 440 | 15,000 | 440 | 44,000 |
| trans-1,2-Dichloroethene | <0.52 | <0.30 | <0.29 | <0.30 | <0.29 | <0.29 | <0.30 | <0.30 | <0.30 | 42 | 1,400 | 180 | 5,800 | 180 | 18,000 |
| trans-1,3-Dichloropropene | <0.81 | <0.97 | <0.95 | <0.97 | <0.95 | <0.95 | <0.97 | <0.97 | <0.97 | 7 | 230 | 31 | 1,000 | 31 | 3,100 |

Note:

Sub-slab and soil gas samples collected for an approximate 30 minute duration; ambient air samples collected for an approximate 24 hour duration

Sub-slab samples collected using the water dam and shut-in test methods. No leaks detected.

µg/m3 = micrograms per cubic meter

AF = Attenuation Facator

VAL = Vapor Action Level

VRSL = Vapor Risk Screening Level

--- No standard or parameter not analyzed

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Italicized text exceeds Residential Standards

Bold text exceeds Small Commercial Standards

Bold & Underlined text exceeds Large Commercial Standards