

US EPA ARCHIVE DOCUMENT

**Young Scholars Academy  
Houston, TX**

**Other Monitored Toxic Air Pollutants**

Monitoring Results

| Key Pollutant                                      | Sample Screening Level | 9/16/2009 | 9/22/2009 | 9/28/2009 | 10/4/2009 | 10/10/2009 | 10/16/2009 | 10/21/2009 | 10/27/2009 | 11/2/2009 | 11/8/2009 | 11/19/2009 | 11/24/2009 | 11/30/2009 | 12/3/2009 | 12/9/2009 | 12/15/2009 |
|--|------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----------|-----------|------------|
| 1,1,2,2-Tetrachloroethane (Micrograms/cubic meter) | 120                    | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,1,2-Trichloroethane (Micrograms/cubic meter)     | 440                    | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,1-Dichloroethane (Micrograms/cubic meter)        | 4400                   | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,1-Dichloroethylene (Micrograms/cubic meter)      | 80                     | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,2,4-Trichlorobenzene (Micrograms/cubic meter)    | 2000                   | --        | --        | --        | --        | --         | --         | ND         | 0.02       | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,2-Dichloropropane (Micrograms/cubic meter)       | 200                    | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| 1,4-Dichlorobenzene (Micrograms/cubic meter)       | 10000                  | --        | --        | --        | --        | --         | --         | 0.25       | 0.28       | 0.15      | 0.13      | 0.14       | 0.06       | 0.05       | ND        | ND        | 0.05       |
| Acetonitrile (Micrograms/cubic meter)**            | 600                    | --        | --        | --        | --        | --         | --         | 0.618      | 0.225      | 0.218     | 0.334     | 0.185      | 0.16       | 0.11       | 0.089     | 0.1       | 0.13       |
| Acrylonitrile (Micrograms/cubic meter)             | 200                    | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | 0.228      | ND         | ND         | ND        | ND        | ND         |
| Benzyl chloride (Micrograms/cubic meter)           | 140                    | --        | --        | --        | --        | --         | --         | ND         | ND         | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |
| Bromoform (Micrograms/cubic meter)**               | 6400                   | --        | --        | --        | --        | --         | --         | ND         | 0.02       | ND        | ND        | ND         | ND         | ND         | ND        | ND        | ND         |

|   |       |    |    |    |    |    |    |       |       |       |       |       |       |       |       |       |       |
|---|-------|----|----|----|----|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bromomethane<br>(Micrograms/cubic<br>meter)**         | 200   | -- | -- | -- | -- | -- | -- | 0.051 | 0.066 | 0.11  | 0.062 | 0.051 | 0.03  | 0.039 | 0.051 | 0.03  | 0.085 |
| Carbon disulfide<br>(Micrograms/cubic<br>meter)**     | 7000  | -- | -- | -- | -- | -- | -- | 0.903 | 0.056 | 0.044 | 0.069 | 0.059 | 0.034 | 0.11  | 0.044 | 0.034 | 0.12  |
| Carbon tetrachloride<br>(Micrograms/cubic<br>meter)** | 200   | -- | -- | -- | -- | -- | -- | 0.743 | 0.62  | 0.705 | 0.925 | 0.57  | 0.5   | 0.56  | 0.62  | 0.6   | 0.636 |
| Chlorobenzene<br>(Micrograms/cubic<br>meter)          | 10000 | -- | -- | -- | -- | -- | -- | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Chloroethane<br>(Micrograms/cubic<br>meter)           | 40000 | -- | -- | -- | -- | -- | -- | 0.1   | 0.055 | 0.04  | 0.037 | 0.02  | ND    | 0.063 | ND    | ND    | 0.071 |
| Chloroform<br>(Micrograms/cubic<br>meter)**           | 500   | -- | -- | -- | -- | -- | -- | 0.12  | 0.14  | 0.15  | 0.21  | 0.098 | 0.078 | 0.088 | 0.1   | 0.098 | 0.098 |
| Chloromethane<br>(Micrograms/cubic<br>meter)**        | 1000  | -- | -- | -- | -- | -- | -- | 1.45  | 1.31  | 1.16  | 1.68  | 0.959 | 0.959 | 0.965 | 0.818 | 0.843 | 0.971 |
| Chloroprene<br>(Micrograms/cubic<br>meter)            | 200   | -- | -- | -- | -- | -- | -- | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Dichloromethane<br>(Micrograms/cubic<br>meter)**      | 2000  | -- | -- | -- | -- | -- | -- | 1.24  | 0.605 | 1.08  | 0.4   | 0.3   | 0.424 | 0.27  | 0.34  | 0.34  | 0.3   |
| Ethyl acrylate<br>(Micrograms/cubic<br>meter)         | 7000  | -- | -- | -- | -- | -- | -- | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Ethylbenzene<br>(Micrograms/cubic<br>meter)           | 40000 | -- | -- | -- | -- | -- | -- | 0.3   | 1.58  | 0.556 | 0.25  | 0.26  | 0.29  | 0.19  | 0.21  | 0.15  | 0.23  |
| Ethylene dibromide<br>(Micrograms/cubic<br>meter)     | 12    | -- | -- | -- | -- | -- | -- | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Ethylene dichloride<br>(Micrograms/cubic<br>meter)    | 270   | -- | -- | -- | -- | -- | -- | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Hexachlorobutadiene<br>(Micrograms/cubic<br>meter)**  | 320   | -- | -- | -- | -- | -- | -- | ND    | 0.04  | ND    | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Methyl chloroform<br>(Micrograms/cubic<br>meter)**    | 10000 | -- | -- | -- | -- | -- | -- | 0.076 | 0.087 | 0.055 | 0.093 | 0.05  | 0.066 | 0.04  | 0.066 | 0.06  | 0.093 |

|  |       |    |    |    |    |    |    |      |       |       |       |       |      |      |       |       |      |
|--|-------|----|----|----|----|----|----|------|-------|-------|-------|-------|------|------|-------|-------|------|
| Methyl isobutyl ketone<br>(Micrograms/cubic meter)** | 30000 | -- | -- | -- | -- | -- | -- | 0.23 | 0.885 | 0.16  | 0.082 | 0.414 | 0.3  | ND   | 0.29  | 0.07  | ND   |
| Methyl methacrylate<br>(Micrograms/cubic meter)      | 7000  | -- | -- | -- | -- | -- | -- | ND   | ND    | ND    | ND    | ND    | ND   | ND   | ND    | ND    | ND   |
| Methyl tert-butyl ether<br>(Micrograms/cubic meter)  | 7000  | -- | -- | -- | -- | -- | -- | ND   | 0.051 | ND    | ND    | ND    | ND   | ND   | ND    | ND    | ND   |
| Styrene<br>(Micrograms/cubic meter)                  | 9000  | -- | -- | -- | -- | -- | -- | 0.14 | 0.19  | 0.14  | 0.13  | 0.13  | 0.16 | 0.09 | 0.068 | ND    | 0.06 |
| Tetrachloroethylene<br>(Micrograms/cubic meter)**    | 1400  | -- | -- | -- | -- | -- | -- | 0.22 | 0.4   | 0.21  | 0.16  | 0.12  | 0.14 | 0.1  | 0.088 | 0.095 | 0.1  |
| Toluene<br>(Micrograms/cubic meter)**                | 4000  | -- | -- | -- | -- | -- | -- | 2.06 | 6.67  | 5.81  | 1.39  | 4.3   | 2.94 | 1.85 | 1.3   | 1.02  | 1.62 |
| Trichloroethylene<br>(Micrograms/cubic meter)**      | 10000 | -- | -- | -- | -- | -- | -- | ND   | 0.1   | ND    | 0.075 | ND    | ND   | ND   | ND    | ND    | ND   |
| Vinyl chloride<br>(Micrograms/cubic meter)           | 1000  | -- | -- | -- | -- | -- | -- | ND   | 0.02  | ND    | 0.02  | ND    | ND   | ND   | ND    | ND    | ND   |
| o-Xylene<br>(Micrograms/cubic meter)                 | 9000  | -- | -- | -- | -- | -- | -- | 0.27 | 1.49  | 0.434 | 0.2   | 0.24  | 0.23 | 0.16 | 0.18  | 0.11  | 0.17 |

ND = Pollutant Not Detected  
 -- = Sample not taken or invalid

The sample screening level is a level of pollution in the air that is below what we expect to cause health problems from short-term exposures

(Results are for metals in air samples of particulate matter 10 micrograms in diameter and smaller (PM10) collected over a 24-hour period to obtain an average concentration during that day.)

[\\*\\* EPA has replaced some data that previously were incorrectly reported. See the changes here.](#)

[NOTE: Additional volatile organic compound samples are being collected at this site. Previous samples have been invalidated due to a sampler contamination issue. Please click here for more information.](#)