

# Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

**Project Name:** Knoxville College

**Date:** June 13, 2014

**Time:** 10:00 - 16:30



| Northeast Corner |         |                            |                    |                      |                     |                |
|------------------|---------|----------------------------|--------------------|----------------------|---------------------|----------------|
| Instrument       | Analyte | Period Average Exceedances | Number of Readings | Number of Detections | Concentration Range | Period Average |
| AreaRAE (.232)   | VOC     | No                         | 743                | 2                    | 0 - 0.4 ppm         | 0 ppm          |
|                  | CO      | No                         | 744                | 366                  | 0 - 12.7 ppm        | 2.47 ppm       |
|                  | LEL     | No                         | 743                | 0                    | 0 - 0.4%            | 0%             |
|                  | O2      | No                         | 741                | 741                  | 20.9 - 22%          | 20.93%         |
|                  | H2S     | No                         | 743                | 0                    | 0 - 0.4 ppm         | 0.02 ppm       |
| DataRAM (.139)   | PM-2.5  | No                         | 396                | 396                  | 4.8 - 27.5 ug/m3    | 14.29 ug/m3    |

| Southwest Corner |         |                            |                    |                      |                     |                |
|------------------|---------|----------------------------|--------------------|----------------------|---------------------|----------------|
| Instrument       | Analyte | Period Average Exceedances | Number of Readings | Number of Detections | Concentration Range | Period Average |
| AreaRAE (.137)   | VOC     | No                         | 406                | 0                    | 0 - 0 ppm           | 0 ppm          |
|                  | CO      | No                         | 406                | 0                    | 0 - 0.4 ppm         | 0.01 ppm       |
|                  | LEL     | No                         | 406                | 0                    | 0 - 0%              | 0%             |
|                  | O2      | No                         | 404                | 404                  | 20.9 - 21.9%        | 21.36%         |
|                  | H2S     | No                         | 406                | 0                    | 0 - 0 ppm           | 0 ppm          |

| Building Interior |         |                            |                    |                      |                     |                |
|-------------------|---------|----------------------------|--------------------|----------------------|---------------------|----------------|
| Instrument        | Analyte | Period Average Exceedances | Number of Readings | Number of Detections | Concentration Range | Period Average |
| AreaRAE (.134)    | VOC     | No                         | 0                  | 0                    | 0 - 0 ppm           | NA             |
|                   | CO      | No                         | 0                  | 0                    | 0 - 0 ppm           | NA             |
|                   | LEL     | No                         | 0                  | 0                    | 0 - 0%              | NA             |
|                   | O2      | No                         | 0                  | 0                    | 0 - 0%              | NA             |
|                   | H2S     | No                         | 0                  | 0                    | 0 - 0 ppm           | NA             |
| DataRAM (.228)    | PM-2.5  | No                         | 0                  | 0                    | 0 - 0 ug/m3         | NA             |

| Personal Monitor                                |         |                            |                    |                      |                     |                |
|---|---------|----------------------------|--------------------|----------------------|---------------------|----------------|
| Multiple locations within the building interior |         |                            |                    |                      |                     |                |
| Instrument                                      | Analyte | Period Average Exceedances | Number of Readings | Number of Detections | Concentration Range | Period Average |
| MultiRAE (.230)                                 | VOC     | No                         | 377                | 377                  | 3 - 19 ppb          | 9.2 ppb        |
|   | CO      | No                         | 377                | 0                    | 0 - 0 ppm           | 0 ppm          |
|   | LEL     | No                         | 377                | 0                    | 0 - 0%              | 0%             |
|   | O2      | No                         | 377                | 377                  | 20.9 - 20.9%        | 20.9%          |
|   | H2S     | No                         | 377                | 0                    | 0 - 0 ppm           | 0 ppm          |
|   | Gamma   | No                         | 377                | 0                    | 0 - 0 uR/h          | 0 uR/h         |

## Notes:

|                   |   |
|-------------------|---|
| CO                | Carbon monoxide   |
| H <sub>2</sub> S  | Hydrogen sulfide  |
| LEL               | Lower explosive limit   |
| NA                | Not available   |
| O <sub>2</sub>    | Oxygen  |
| PM-2.5            | Particulate matter with an average diameter less than 2.5 microns |
| ppm               | Parts per million   |
| ppb               | Parts per billion   |
| ug/m <sup>3</sup> | micrograms per cubic meter  |
| uR/h              | micro-Roentgens per hour  |
| VOC               | Volatile organic compounds  |

\*\*No data was received for the AreaRAE (Linc 134) at the Building Interior location.