

# 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 15, 2014

**Time:** 9:00 - 15:00



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1861	0	0 - 0 ppm	0 ppm
	CO	No	1861	1591	0 - 22.8 ppm	6.57 ppm
	LEL	No	1861	0	0 - 0%	0%
	O2	No	1861	1861	20.4 - 20.9%	20.88%
	H2S	No	1861	0	0 - 0.2 ppm	0.04 ppm
DataRAM (.139)	PM-2.5	No	336	336	3.7 - 15.6 ug/m3	8.58 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	341	11	0 - 1.5 ppm	0.04 ppm
	CO	No	341	0	0 - 0 ppm	0 ppm
	LEL	No	341	0	0 - 0%	0%
	O2	No	341	341	20.9 - 22.6%	21.99%
	H2S	No	341	0	0 - 0 ppm	0 ppm
DataRAM (.140)	PM-2.5	No	340	340	4 - 28 ug/m3	9.61 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	332	221	0 - 0.5 ppm	0.14 ppm
	CO	No	332	0	0 - 0 ppm	0 ppm
	LEL	No	332	0	0 - 0%	0%
	O2	No	332	332	20.9 - 20.9%	20.9%
	H2S	No	332	0	0 - 0 ppm	0 ppm
DataRAM (.228)	PM-2.5	No	327	327	5.1 - 119.1 ug/m3	16.37 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	5035	4779	0 - 4.4 ppm	1.49 ppm
	CO	No	5035	0	0 - 0 ppm	0 ppm
	LEL	No	5035	4840	0 - 10.6%	6.04%
	O2	No	5035	5035	20.6 - 20.9%	20.9%
	H2S	No	5035	0	0 - 0.1 ppm	0 ppm

Personal Monitor						
Multiple locations within the building interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings <sup>a</sup>	Number of Detections <sup>b</sup>	Concentration Range	Period Average
MultiRAE (.230)	VOC	No	327	0	0 - 0 ppb	0 ppb
	CO	No	327	0	0 - 0 ppm	0 ppm
	LEL	No	327	0	0 - 0%	0%
	O2	No	327	327	20.9 - 20.9%	20.9%
	H2S	No	327	0	0 - 0 ppm	0 ppm
	Gamma	No	327	327	3 - 16 uR/h	7.78 uR/h

Notes:

<sup>a</sup> Values recorded by the instrument

<sup>b</sup> Values at or above detection limits

CO Carbon monoxide

H<sub>2</sub>S Hydrogen sulfide

LEL Lower explosive limit

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