

# 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 21, 2014

**Time:** 9:00 - 17:00



Northeast Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.232)	VOC	No	1870	117	0 - 0.1 ppm	0.01 ppm
	CO	No	1870	416	0 - 27 ppm	1.84 ppm
	LEL	No	1870	0	0 - 0%	0%
	O2	No	1870	1870	19 - 23.7%	20.97%
DataRAM (.139)	H2S	No	1870	0	0 - 0.1 ppm	0 ppm
	PM-2.5	No	1450	1450	6.4 - 21.8 ug/m3	11.98 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1450	0	0 - 0 ppm	0 ppm
	CO	No	1450	0	0 - 0 ppm	0 ppm
	LEL	No	1450	0	0 - 0%	0%
	O2	No	1450	1450	20.9 - 22%	21.04%
DataRAM (.140)	H2S	No	1450	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1446	1446	3 - 18.9 ug/m3	14.78 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1447	0	0 - 0 ppm	0 ppm
	CO	No	1447	0	0 - 0 ppm	0 ppm
	LEL	No	1447	0	0 - 0%	0%
	O2	No	1447	1447	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1447	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1445	1445	6.6 - 21.5 ug/m3	15.17 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	8811	0	0 - 0 ppm	0 ppm
	CO	No	8811	0	0 - 0 ppm	0 ppm
	LEL	No	8811	7554	0 - 4.2%	2.3%
	O2	No	8812	8812	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	8811	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	1442	0	0 - 0 ppb	0 ppb
	CO	No	1442	0	0 - 0 ppm	0 ppm
	LEL	No	1442	0	0 - 0%	0%
	O2	No	1442	1442	20.9 - 20.9%	20.9%
	H2S	No	1442	0	0 - 0 ppm	0 ppm
DataRAM (.228)	Gamma	No	1442	1442	3 - 18 uR/h	6.96 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