

# 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 16, 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	1571	117	0 - 0.1 ppm	0.01 ppm
	CO	No	1571	0	0 - 0 ppm	0 ppm
	LEL	No	1571	0	0 - 0%	0%
	O2	No	1571	1571	20.3 - 20.9%	20.69%
DataRAM (.139)	H2S	No	1571	0	0 - 0.4 ppm	0.03 ppm
	PM-2.5	No	1567	1567	14.3 - 34.5 ug/m3	27.71 ug/m3

Southwest Corner						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.137)	VOC	No	1568	0	0 - 0 ppm	0 ppm
	CO	No	1568	0	0 - 0 ppm	0 ppm
	LEL	No	1568	0	0 - 0%	0%
	O2	No	1568	1568	20.9 - 23%	21.24%
DataRAM (.140)	H2S	No	1568	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1558	1558	13.2 - 52.7 ug/m3	37.05 ug/m3

Building Interior						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.134)	VOC	No	1603	0	0 - 0 ppm	0 ppm
	CO	No	1603	0	0 - 0 ppm	0 ppm
	LEL	No	1603	0	0 - 0%	0%
	O2	No	1603	1603	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	1603	0	0 - 0 ppm	0 ppm
	PM-2.5	No	1550	1550	23.1 - 184.4 ug/m3	38.58 ug/m3

Building Interior 2						
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average
AreaRAE (.135)	VOC	No	2983	0	0 - 0 ppm	0 ppm
	CO	No	2983	0	0 - 0 ppm	0 ppm
	LEL	No	2984	1452	0 - 4.9%	1.14%
	O2	No	2984	2984	20.9 - 20.9%	20.9%
DataRAM (.228)	H2S	No	2983	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	1563	5	0 - 300 ppb	0.42 ppb
	CO	No	1562	0	0 - 0 ppm	0 ppm
	LEL	No	1562	0	0 - 0%	0%
	O2	No	1562	1562	20.9 - 20.9%	20.9%
	H2S	No	1563	0	0 - 0 ppm	0 ppm
DataRAM (.228)	Gamma	No	1563	1563	2 - 21 uR/h	9.72 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