

Air Monitoring Summary Tables

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

Project Name:

From: 8/15/19
7:00

To: 8/15/19
18:58

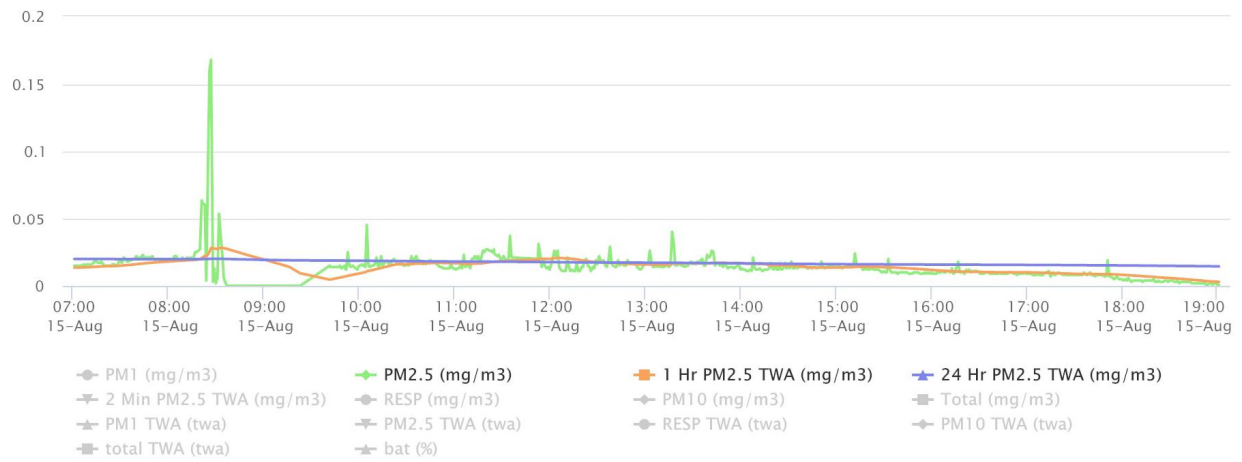


SE Corner of Able Contracting							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 1	VOC	No	753	3	0 - 151 ppb	0.4 ppb	1,000 ppb
	CO	No	753	26	0 - 5 ppm	0.1 ppm	83 ppm
	H ₂ S	No	753	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	753	753	20.9 - 20.9%	20.9%	<19.5 or >23%
	LEL	No	753	0	0 - 0%	0%	10%
	HCN	No	753	616	0 - 0.9 ppm	0.2 ppm	7.1 ppm%
Peacock Collision							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
DustTrak 1	PM-2.5	Moderate	2,133	1,989	0 - 168 µg/m ³	13.4 µg/m ³	See SOG #: T106
On Site, Immediately West of Pile							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 2	VOC	No	754	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	754	53	0 - 10 ppm	0.3 ppm	83 ppm
	H ₂ S	No	754	7	0 - 1 ppm	0 ppm	0.5 ppm
	O ₂	No	754	754	20.4 - 20.6%	20.4%	<19.5 or >23%
	LEL	No	754	0	0 - 0%	0%	10%
	HCN	No	754	48	0 - 5.3 ppm	0 ppm	7.1 ppm
Short Cut Road							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
DustTrak 2	PM-2.5	Moderate	738	519	0 - 88 µg/m ³	13.2 µg/m ³	See SOG #: T106
Able Contracting Workshop, Northeast of Pile							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 3	VOC	No	751	16	0 - 307 ppb	2.7 ppb	1,000 ppb
	CO	No	751	13	0 - 5 ppm	0.1 ppm	83 ppm
	H ₂ S	No	751	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	751	751	20.4 - 20.9%	20.8%	<19.5 or >23%
	LEL	No	751	0	0 - 0%	0%	10%
	HCN	No	751	610	0 - 1 ppm	0.3 ppm	7.1 ppm
Grace Costal Church							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
DustTrak 3	PM-2.5	Moderate	709	709	6 - 48 µg/m ³	15.3 µg/m ³	See SOG #: T106
Palmetto Exterminators							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 4	VOC	No	750	3	0 - 176 ppb	0.3 ppb	1,000 ppb
	CO	No	750	12	0 - 82 ppm	0.2 ppm	83 ppm
	H ₂ S	No	750	1	0 - 1 ppm	0 ppm	0.5 ppm
	O ₂	No	750	750	19.6 - 20.9%	20.4%	<19.5 or >23%
	LEL	No	750	0	0 - 0%	0%	10%
	HCN	No	750	0	0 - 3.2 ppm	0 ppm	7.1 ppm
Sun City							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 1	PM-2.5	Moderate	760	550	0 - 159 µg/m ³	16.1 µg/m ³	See SOG #: T106
Brooke Mill Apartments							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 2	PM-2.5	Moderate	752	556	0 - 63 µg/m ³	12.4 µg/m ³	See SOG #: T106
Location 6							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 3	PM-2.5	Moderate	742	501	0 - 105 µg/m ³	15.6 µg/m ³	See SOG #: T106

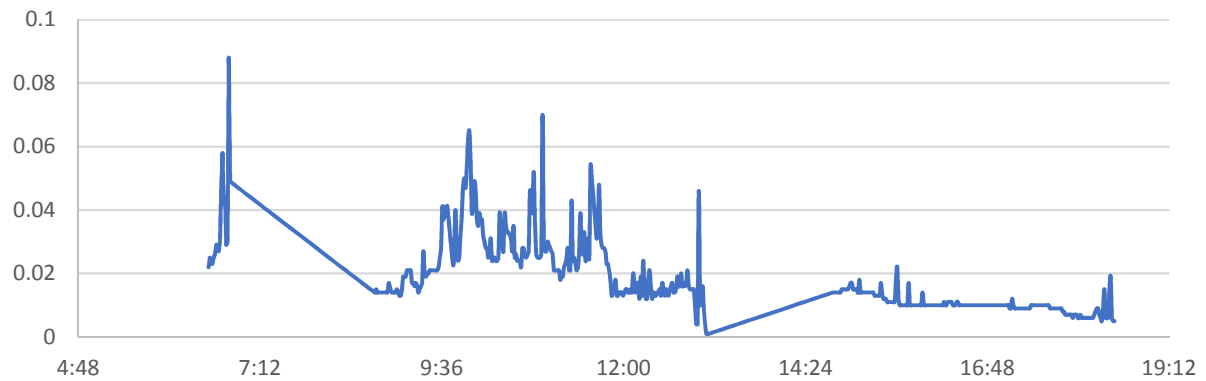
Notes:

%	Percent	O ₂	Oxygen
<	Less than	PEL	Permissible exposure limit
>	Greater than	ppb	Parts per billion
AEGL	Acute Exposure Guideline levels for airborne chemicals	ppm	Parts per million
CO	Carbon monoxide	PM	Particulate matter
H ₂ S	Hydrogen Sulfide	SOG	Standard Operating Guidelines
HCN	Hydrogen Cyanide	TLV	Threshold limit value
LEL	Lower Explosive Level	µg/m ³	Micrograms per cubic meter
min	Minute	VOC	Volatile organic compound

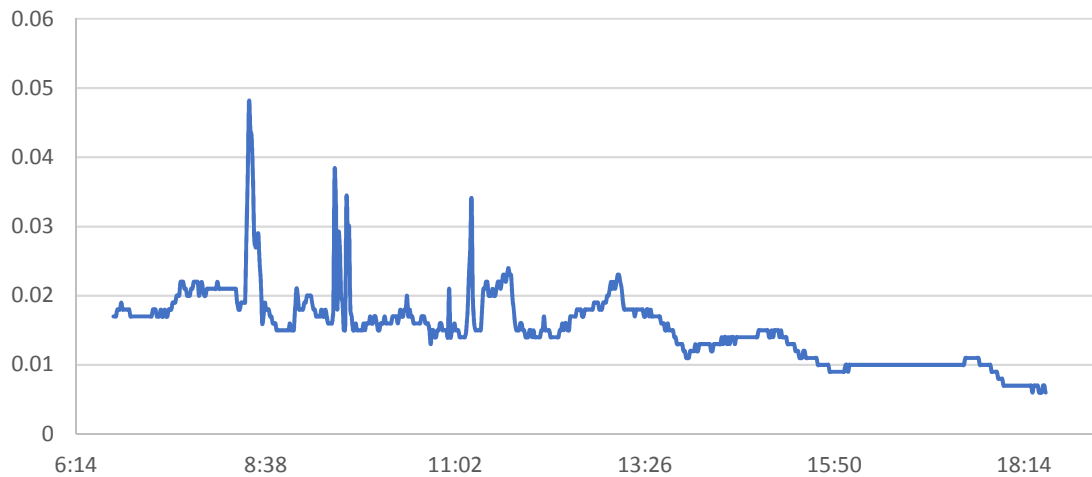
8/15/19 DAY Data for DustTrak 1 (PM_{2.5}) - Peacock Collision



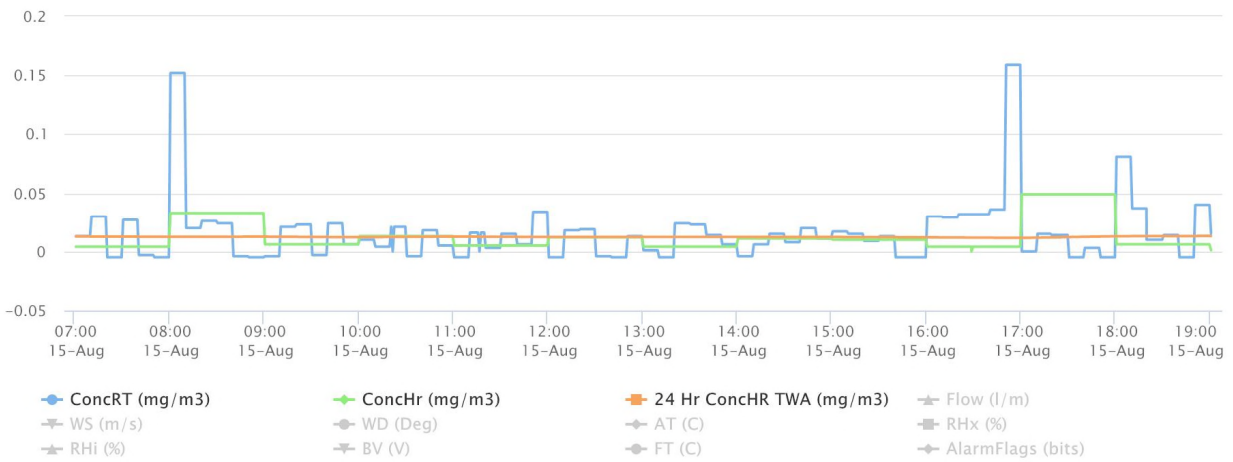
8/15/19 DAY Data for DustTrak 2 (PM_{2.5}) – Short Cut Road



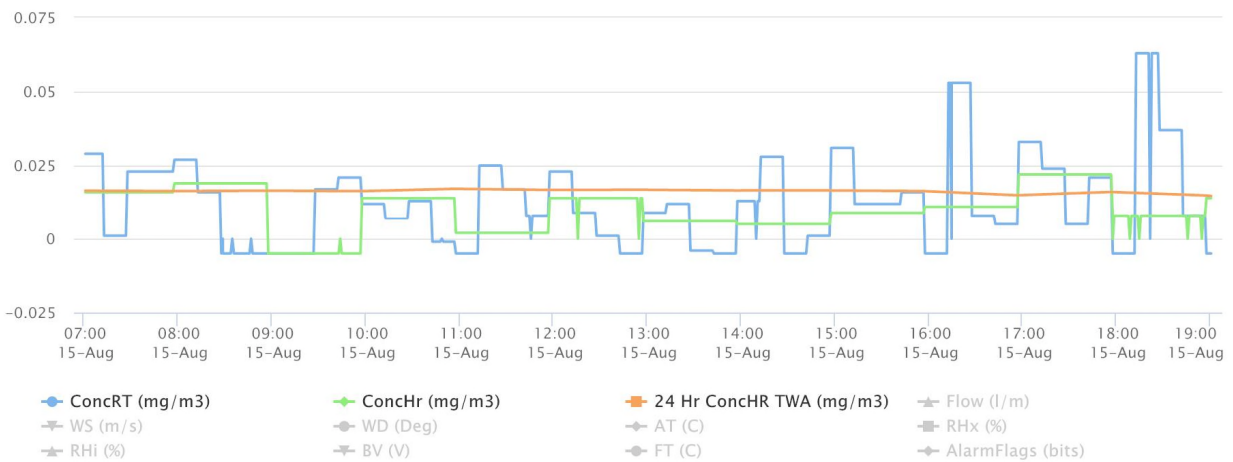
8/15/19 DAY Data for DustTrak 3 (PM_{2.5}) – Grace Costal Church



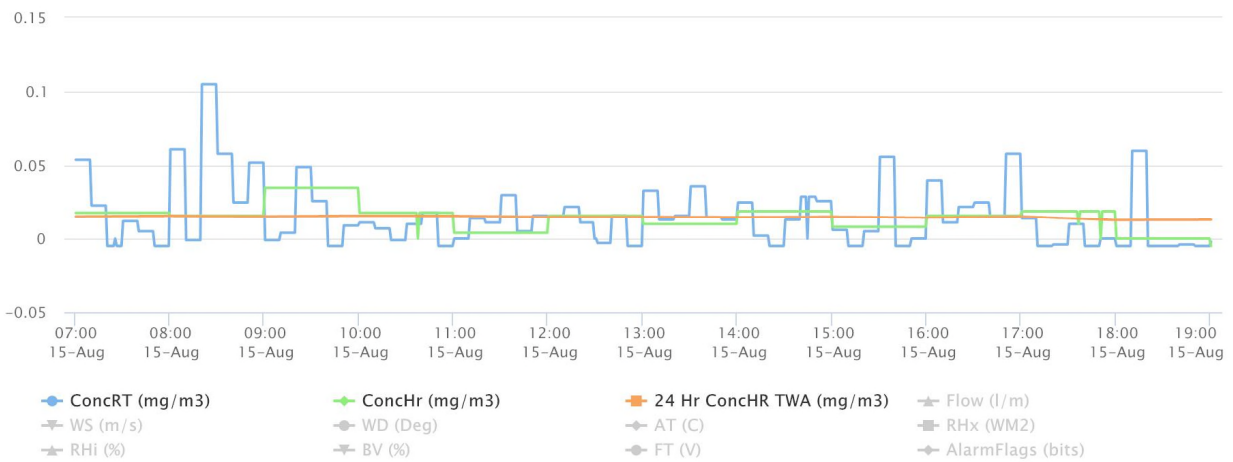
8/15/19 DAY Data for EBAM 1 (ConcRT) – Sun City



8/15/19 DAY Data for EBAM 2 (ConcRT) – Brooke Mill Apartments

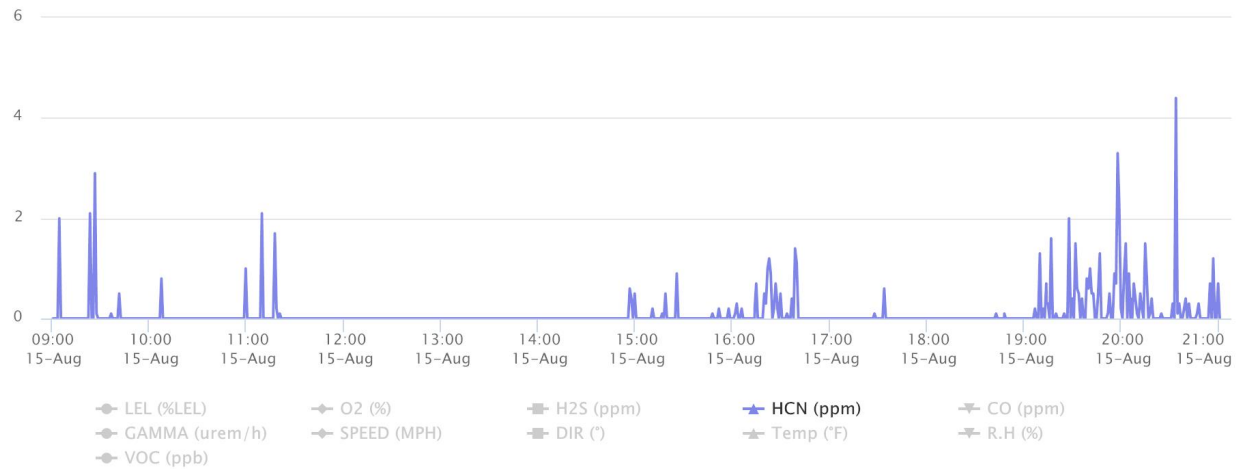


8/15/19 DAY Data for EBAM 3 (ConcRT) – EPA Mobile Command Post



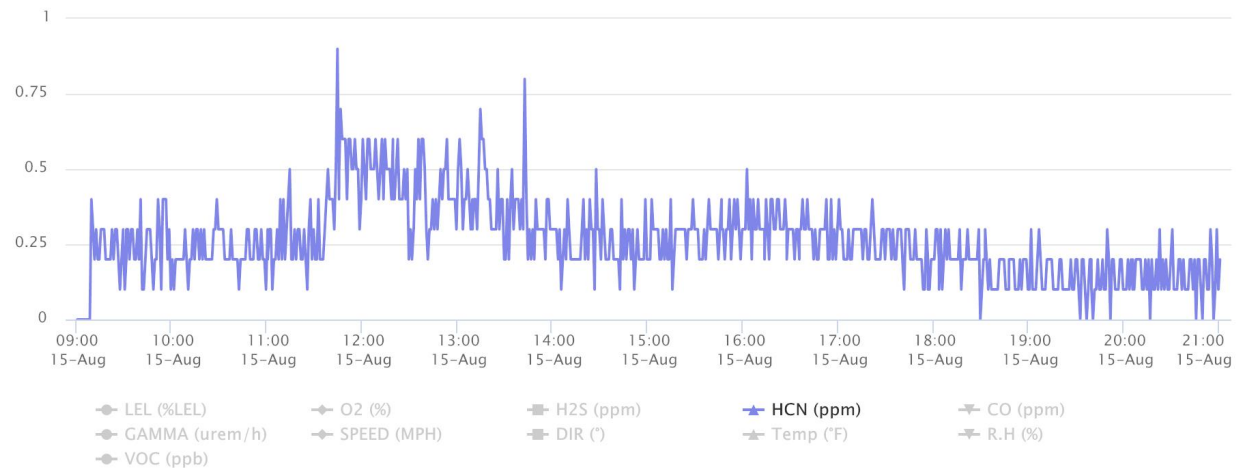
On Site, Immediately West of Pile

(.3004) AreaRAE Pro – PRG2CAP – AreaRAE Pro – S/NW01A00001810



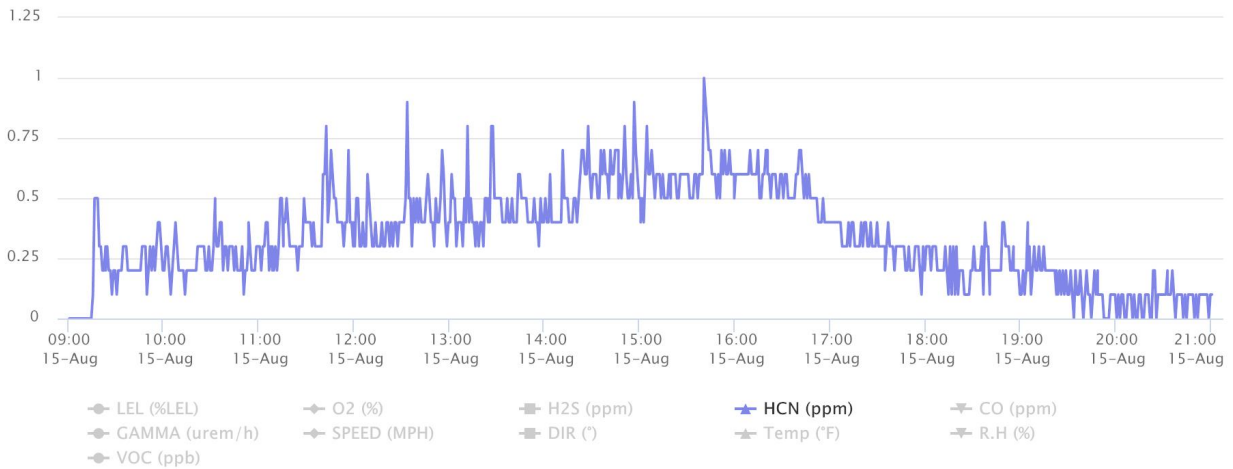
SE Corner of Able Contracting

(.3003) AreaRAE Pro – PRG2CAP – AreaRAE Pro – S/NW01A00001809



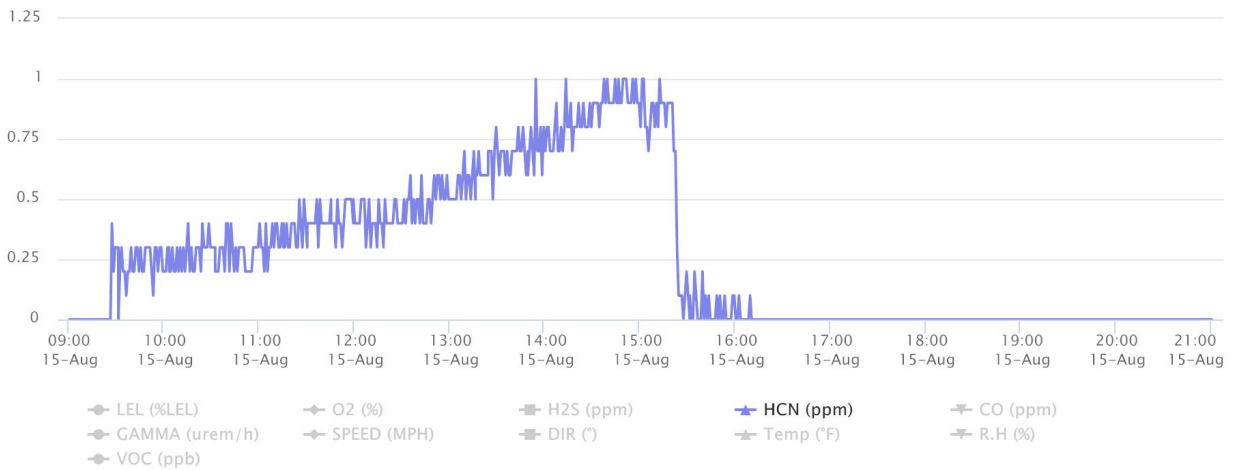
Able Contracting Workshop Northeast of Pile

(.3002) AreaRAE Pro – PRG2CAP – AreaRAE Pro – S/NW01A00001808



Palmetto Exterminators

(.3001) AreaRAE Pro – PRG2CAP – AreaRAE Pro – S/NW01A00001807



Threshold Values and Air Quality Index Categories for PM2.5

Level of Health Concern	Particulate Matter ≤2.5 microns measured in µg/m ³		Interpretation
	1 hour average	24 hour average	
Good	0.0-40.0	0.0-12.0	Air quality is considered satisfactory, and air pollution poses little or no risk
Moderate	40.1-80.0	12.1-35.4	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive groups	80.1-175.0	35.5-55.4	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	175.1-300.0	55.5-150.4	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	300.1-500.0	150.5-250.4	Health warnings of emergency conditions. The entire population is more likely to be affected.
Hazardous	>500.0	>250.5	Health alert: everyone may experience more serious health effects

- Threshold values taken from original EPA AQI online calculator found at http://airnow.gov/index.cfm?action=resources.aqi_conc_calc for PM2.5 (24 hour) and Idaho Department of Environmental Quality AQI for PM2.5 (1 hour) taken from <http://app.airsis.com/usfs/aqi.asp>.
- Recommendations are from the EPA Air Now web site.
- People who are unusually sensitive to air pollution are a subset of Sensitive Individuals. Unusually sensitive to air pollution can be defined as the very young, the elderly, pregnant women, and the immunocompromised.
- Sensitive individuals defined as people with lung disease, older adults and children who are at a greater risk from exposure to ozone; and persons with heart and lung disease, older adults and children who are at greater risk from the presence of particles in the air.