

Air Monitoring Summary Tables

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

Project Name:

From: 8/14/19
19:00

To: 8/15/19
6:58



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	747	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	747	19	0 - 6 ppm	0.1 ppm	83 ppm
	H ₂ S	No	747	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	747	747	20.9 - 20.9%	20.9%	<19.5 or >23%
	LEL	No	747	0	0 - 0%	0%	10%

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	3	3	see graph	n/a	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	749	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	749	49	0 - 11 ppm	0.3 ppm	83 ppm
	H ₂ S	No	749	15	0 - 1.1 ppm	0 ppm	0.5 ppm
	O ₂	No	749	749	20.4 - 20.5%	20.4%	<19.5 or >23%
	LEL	No	749	0	0 - 0%	0%	10%

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	Good	3	3	see graph	see graph	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	750	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	750	0	0 - 0 ppm	0 ppm	83 ppm
	H ₂ S	No	750	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	750	750	20.4 - 20.5%	20.5%	<19.5 or >23%
	LEL	No	750	0	0 - 0%	0%	10%

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	614	614	4 - 46 µg/m ³	20.8 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	754	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	754	0	0 - 0 ppm	0 ppm	83 ppm
	H ₂ S	No	754	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	754	754	19.9 - 20%	19.9%	<19.5 or >23%
	LEL	No	754	0	0 - 0%	0%	10%

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	71	41	see graph	n/a	See SOG #: T106

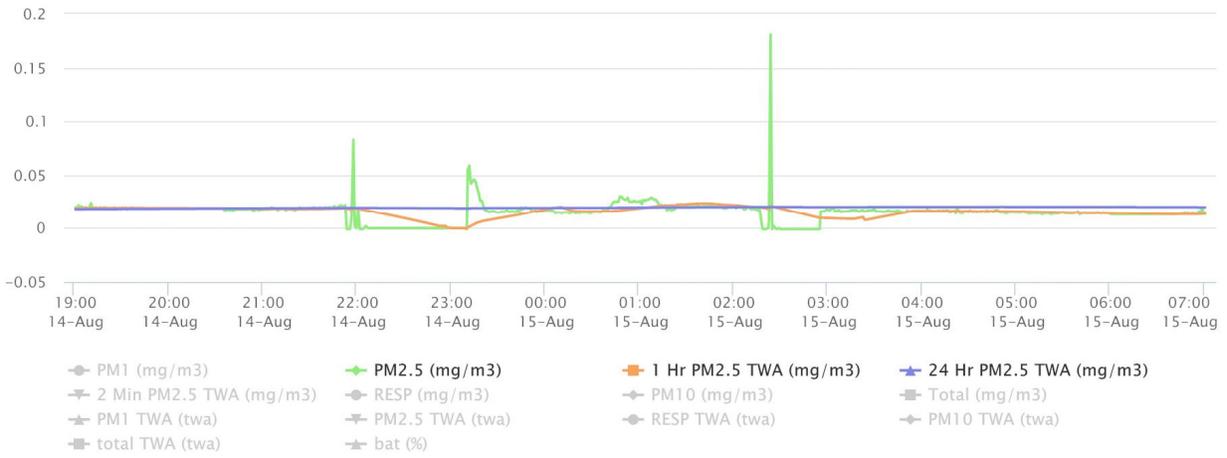
Brooke Mill Apartments							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 2	PM-2.5	Moderate	743	587	0 - 300 µg/m ³	22.7 µg/m ³	See SOG #: T106

EPA Mobile Command Post							
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	724	531	0 - 96 µg/m ³	15.4 µg/m ³	See SOG #: T106

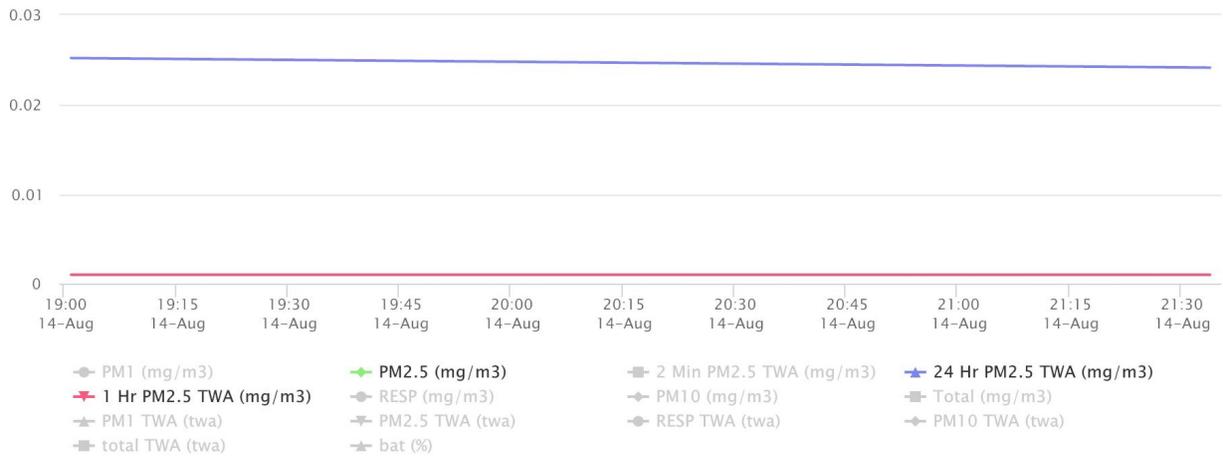
Notes:

- % Percent
- < Less than
- > Greater than
- AEGL Acute Exposure Guideline levels for airborne chemicals
- CO Carbon monoxide
- H₂S Hydrogen Sulfide
- LEL Lower Explosive Level
- min Minute
- O₂ Oxygen
- PEL Permissible exposure limit
- ppb Parts per billion
- ppm Parts per million
- PM Particulate matter
- SOG Standard Operating Guidelines
- TLV Threshold limit value
- µg/m³ Micrograms per cubic meter
- VOC Volatile organic compound

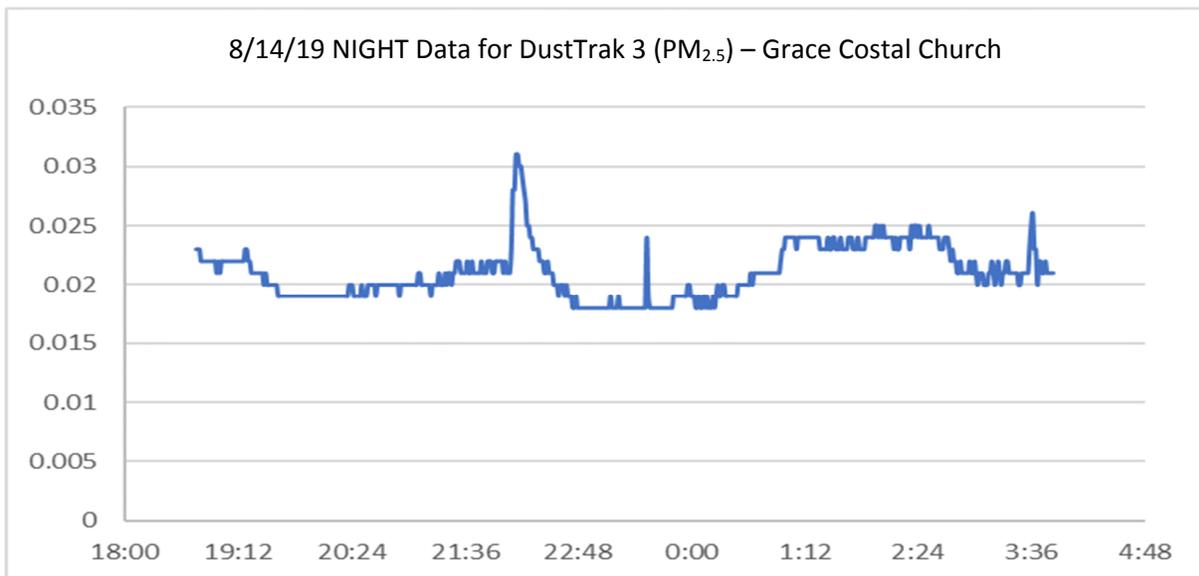
8/14/19 NIGHT Data for DustTrak 1 (PM_{2.5}) - Peacock Collision



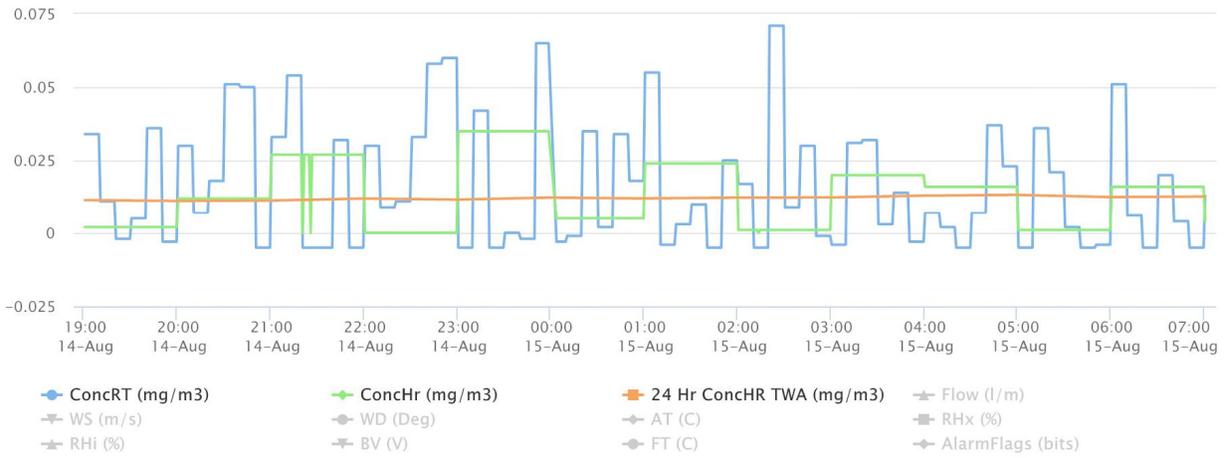
8/14/19 NIGHT Data for DustTrak 2 (PM_{2.5}) – Short Cut Road



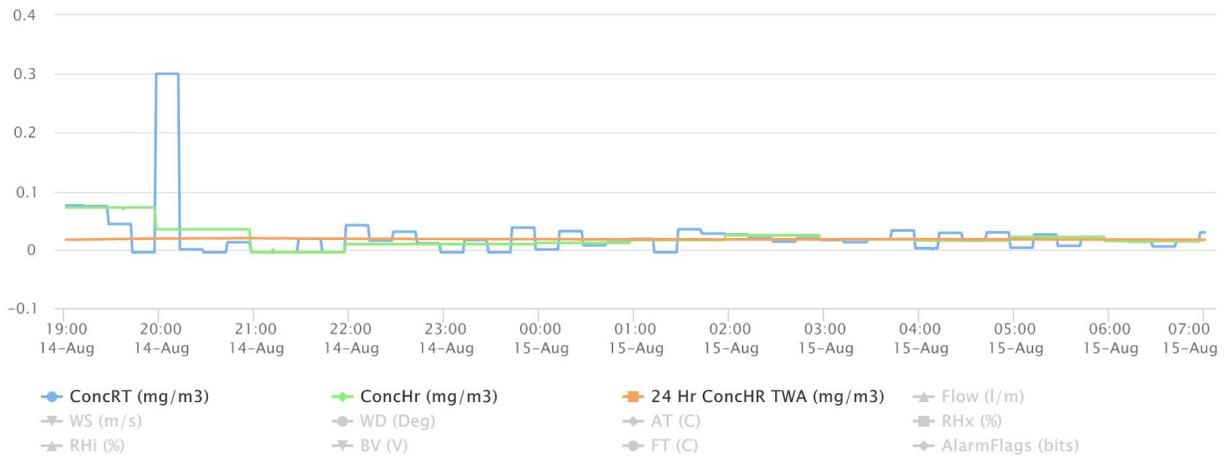
8/14/19 NIGHT Data for DustTrak 3 (PM_{2.5}) – Grace Costal Church



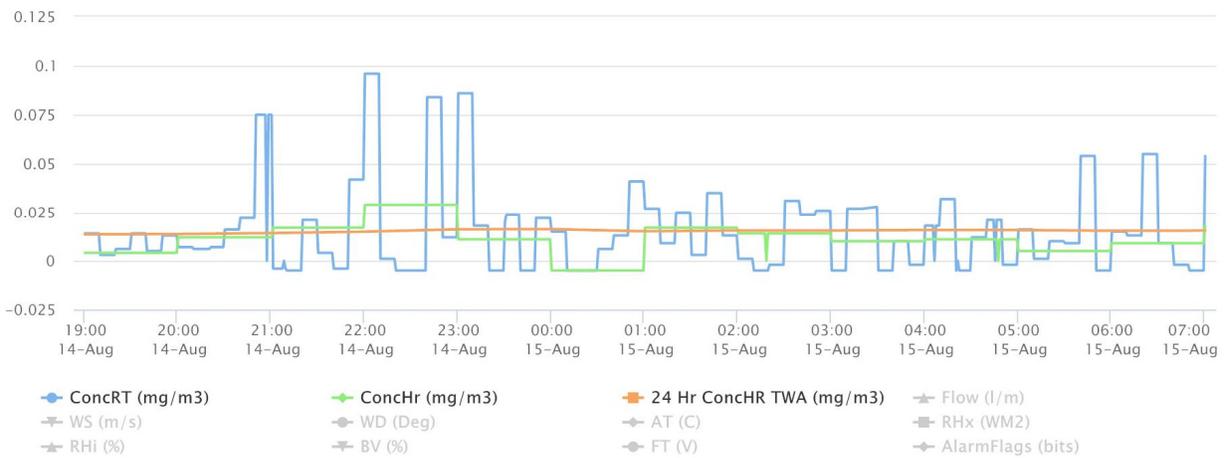
8/14/19 NIGHT Data for EBAM 1 (ConcRT) – Sun City



8/14/19 NIGHT Data for EBAM 2 (ConcRT) – Brooke Mill Apartments



8/14/19 NIGHT Data for EBAM 3 (ConcRT) – EPA Mobile Command Post



Threshold Values and Air Quality Index Categories for PM2.5

Level of Health Concern	Particulate Matter ≤ 2.5 microns measured in $\mu\text{g}/\text{m}^3$		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.