

# Air Monitoring Summary Tables

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

**Project Name: Weaver Fertilizer Fire**

**From: 2/3/22  
6:00 PM**

**To: 2/4/22  
5:58 AM**



Wake Forest University Police Station							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
DustTrak 1	PM-2.5	See PM2.5 Action Level Sheet	746	746	4 - 195 µg/m3	36.2 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 1	Nitrogen Dioxide (NO2)	No	13025	13025	0 - 0.1 ppm	0 ppm	0.5 ppm
SPM Flex 1	Ammonia (NH3)	No	750	478	0 - 0.7 ppm	0.1 ppm	30 ppm

North Hills Elementary							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
DustTrak 2	PM-2.5	See PM2.5 Action Level Sheet	735	735	7 - 1040 µg/m3	103.8 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 2	Nitrogen Dioxide (NO2)	No	749	537	0 - 0.1 ppm	0 ppm	0.5 ppm
SPM Flex 2	Ammonia (NH3)	No	746	642	0 - 1.8 ppm	0.1 ppm	30 ppm

Weaver Fertilizer Plant Perimeter Station 1							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 4	VOC	Yes	1339	1339	38 - 6227 ppb	483.3 ppb	1000 ppb
	CO	No	1339	17	0 - 5 ppm	0 ppm	83 ppm
	O <sub>2</sub>	No	1339	1339	21.3 - 21.5 %	21.4 %	<19.5 or >23 %
	LEL	No	1339	0	0 - 0 %	0 %	10 %
	NH <sub>3</sub>	Yes	1339	1339	3 - 100 ppm	9.9 ppm	30 ppm
	NO <sub>2</sub>	No	1339	1339	0.1 - 0.3 ppm	0.2 ppm	0.5 ppm
	γ	Yes	1339	1339	2 - 9 µrem/h	6.1 µrem/h	9 µrem/h

Weaver Fertilizer Plant Perimeter Station 2							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 5	VOC	No	1339	0	0 - 0 ppb	0 ppb	1000 ppb
	H <sub>2</sub> S	No	1339	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1339	1339	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	1339	0	0 - 0 %	0 %	10 %
	NO <sub>2</sub>	Yes	1339	1339	0.1 - 0.6 ppm	0.3 ppm	0.5 ppm
	γ	Yes	1339	1339	1 - 21 µrem/h	6.1 µrem/h	9 µrem/h

Weaver Fertilizer Plant Perimeter Station 3							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 6	VOC	No	1349	0	0 - 0 ppb	0 ppb	1000 ppb
	H <sub>2</sub> S	No	1349	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1349	1349	19.5 - 20.1 %	19.7 %	<19.5 or >23 %
	LEL	No	1349	0	0 - 0 %	0 %	10 %
	NH <sub>3</sub>	No	1349	407	0 - 10 ppm	0.6 ppm	30 ppm
	NO <sub>2</sub>	Yes	1349	1349	0.3 - 0.8 ppm	0.4 ppm	0.5 ppm
	γ	Yes	1349	1349	2 - 10 µrem/h	6 µrem/h	9 µrem/h

Weaver Fertilizer Plant Perimeter Station 4							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRAE 7	VOC	No	1340	824	0 - 190 ppb	43.8 ppb	1000 ppb
	H <sub>2</sub> S	No	1340	0	0 - 0 ppm	0 ppm	0.51 ppm
	O <sub>2</sub>	No	1340	1340	21.6 - 21.7 %	21.7 %	<19.5 or >23 %
	LEL	No	1340	0	0 - 0 %	0 %	10 %
	NO <sub>2</sub>	No	1340	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	1340	1340	3 - 5 µrem/h	3.2 µrem/h	9 µrem/h

Notes:		Analyte	Definition	Action Level Reference
%	Percent	VOC	Volatile Organic Compounds	TEEL-0,15 minute TWA for Benzene
<	Less than	CO	Carbon Monoxide	AEGL-2 1hr
>	Greater than	H2S	Hydrogen Sulfide	AEGL-1 1hr
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals	O2	Oxygen	29 CFR 1910.146, Confined Spaces
mg/m3	milligrams per cubic meter	LEL	Lower Explosive Limit	29 CFR 1910.146, Confined Spaces
min	Minute	NH3	Ammonia	AEGL-1 1hr
ppb	Parts per billion	γ	Gamma-wave Radiation	Lowest 3x median (background) for RAEs in period
ppm	Parts per million	PM-2.5	Particulate Matter <2.5 microns	
PM	Particulate matter	Nitrogen Dioxide (NO2)	Nitrogen Dioxide (NO2)	AEGL-1 1hr
SOG	Standard Operating Guidelines	Ammonia (NH3)	Ammonia (NH3)	AEGL-1 1hr
SPM	Single Point Monitor			
µg/m³	Micrograms per cubic meter			
µrem/h	Microrem per hour			
γ	Gamma-wave radiation			

