

Air Monitoring Summary Tables

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



Project Name:

From: 2/3/22
6:00 AM

To: 2/3/22
5:57 PM

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	17178	17178	15 - 515 µg/m3	96.5 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 1	Nitrogen Dioxide (NO2)	No	12797	12797	0 - 0.1 ppm	0.1 ppm	0.5 ppm
SPM Flex 1	Ammonia (NH3)	No	12809	4751	0 - 0.7 ppm	0 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	747	747	17 - 38 µg/m3	22.6 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 2	Nitrogen Dioxide (NO2)	No	13031	13031	0 - 0.1 ppm	0 ppm	0.5 ppm
SPM Flex 2	Ammonia (NH3)	No	13026	5031	0 - 0.8 ppm	0 ppm	30 ppm

Cook's Flea Market							
Instrument	Analyte	Action Level Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
DustTrak 3	PM-2.5	See PM2.5 Action Level Sheet	453	453	14 - 46 µg/m3	22 µg/m3	See PM2.5 Action Level Sheet
SPM Flex 3	Ammonia (NH3)	No	8028	1451	0 - 0.6 ppm	0 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	No	616	616	26 - 191 ppb	64.3 ppb	1000 ppb
	CO	No	616	7	0 - 5 ppm	0 ppm	83 ppm
	O ₂	No	616	616	21.4 - 21.6 %	21.5 %	<19.5 or >23 %
	LEL	No	616	0	0 - 0 %	0 %	10 %
	NH ₃	No	616	109	0 - 1 ppm	0.2 ppm	30 ppm
	NO ₂	Yes	616	616	0.1 - 0.5 ppm	0.2 ppm	0.5 ppm
	γ	Yes	616	616	1 - 10 µrem/h	6.3 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	618	0	0 - 0 ppb	0 ppb	1000 ppb
	H ₂ S	No	618	0	0 - 0 ppm	0 ppm	0.51 ppm
	O ₂	No	618	618	20.9 - 20.9 %	20.9 %	<19.5 or >23 %
	LEL	No	618	0	0 - 0 %	0 %	10 %
	NO ₂	No	618	585	0 - 0.4 ppm	0.2 ppm	0.5 ppm
	γ	No	618	618	2 - 8 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	619	0	0 - 0 ppb	0 ppb	1000 ppb
	H ₂ S	No	619	0	0 - 0 ppm	0 ppm	0.51 ppm
	O ₂	No	619	619	19.6 - 20.9 %	20 %	<19.5 or >23 %
	LEL	No	619	0	0 - 0 %	0 %	10 %
	NH ₃	No	619	0	0 - 0 ppm	0 ppm	30 ppm
	NO ₂	No	619	619	0.2 - 0.4 ppm	0.3 ppm	0.5 ppm
	γ	Yes	619	619	3 - 11 µrem/h	6.1 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	619	619	58 - 278 ppb	98.8 ppb	1000 ppb
	H ₂ S	No	619	0	0 - 0 ppm	0 ppm	0.51 ppm
	O ₂	No	619	619	21.6 - 21.8 %	21.7 %	<19.5 or >23 %
	LEL	No	619	0	0 - 0 %	0 %	10 %
	NO ₂	No	619	0	0 - 0 ppm	0 ppm	0.5 ppm
	γ	No	619	619	3 - 4 µrem/h	3.1 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			