

Air Monitoring Summary Tables

The tables below summarize preliminary air monitoring data collected using Handheld DustTrak and MultiRAE Pro instruments.

Project Name: Morris Industrial Fire Site
Date/Time: 02/24/22 11:00 to 02/24/22 11:20
Weather
Temperature: 19 °F
Wind Speed: 9 miles per hour
Wind Direction: North / northeast
Conditions: Overcast

Fixed Discrete Air Monitoring Location: Northwest Perimeter					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	1	0.000 to 0.000
	CO (ppm)	--	No	1	0.00 to 0.00
	O ₂ (%)	--	No	1	20.9 to 20.9
	LEL (%)	--	No	1	0.000 to 0.000
	VOC (ppm)	1 ppm	No	1	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	1	0.015 to 0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	1	0.015 to 0.015

Fixed Discrete Air Monitoring Location: Northeast Perimeter					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	1	0.000 to 0.000
	CO (ppm)	--	No	1	0.00 to 0.00
	O ₂ (%)	--	No	1	20.9 to 20.9
	LEL (%)	--	No	1	0.000 to 0.000
	VOC (ppm)	1 ppm	No	1	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	1	0.015 to 0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	1	0.016 to 0.016

Fixed Discrete Air Monitoring Location: Southeast Perimeter					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	1	0.000 to 0.000
	CO (ppm)	--	No	1	0.00 to 0.00
	O ₂ (%)	--	No	1	20.9 to 20.9
	LEL (%)	--	No	1	0.000 to 0.000
	VOC (ppm)	1 ppm	No	1	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	1	0.015 to 0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	1	0.015 to 0.015

Notes: See last page.

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Fixed Discrete Air Monitoring Location: Southwest Perimeter					
Instrument	Analyte	Morris Industrial Fire Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H ₂ S (ppm)	0.1 ppm	No	1	0.000 to 0.000
	CO (ppm)	--	No	1	0.00 to 0.00
	O ₂ (%)	--	No	1	20.9 to 20.9
	LEL (%)	--	No	1	0.000 to 0.000
	VOC (ppm)	1 ppm	No	1	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	1	0.015 to 0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	1	0.015 to 0.015

Comments
Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of all units.
1 - Site-Specific Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR. Fixed discrete monitoring readings are discrete readings, and so do not represent conditions over a full 1-hour period.
2 - PM _{2.5} and PM ₁₀ exceedances of site-specific screening levels were observed at the fixed discrete air monitoring locations during the monitoring period. There was no active fire, smoke or site activities conducted at the facility during the monitoring period.

Notes:

CO - Carbon Monoxide

H₂S - Hydrogen Sulfide

LEL - Lower Explosive Limit

HF - Hydrogen Fluoride

mg/m³ - milligrams per cubic meter

O₂ - Oxygen

PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppb - Parts per billion

ppm - Parts per million

VOC - Volatile organic compounds