

Air Monitoring Summary Tables: Old Settlers Day Festival

The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

Project Name: Rockton Chemtool Fire ER
Date/Time: 06/20/21 16:26 to 06/20/21 21:21
Weather
Temperature: high of 75°F, low of 62°F
Wind Speed: 4 to 15 miles per hour
Wind Direction: South/Southwest to North/Northwest
Conditions: Overcast/Scattered Rain and Thunderstorms

Fixed Station 10: Rockton Fairgrounds North						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 3911)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	4	0.021 to 0.025	0.023
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	4	0.022 to 0.025	0.023
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	4	0.13 to 0.19	0.17
	CO (ppm)	--	No	4	0.0 to 0.7	0.3
	O ₂ (%)	--	No	4	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	4	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	4	0.0 to 0.0	0.0

Fixed Station 11: Rockton Fairgrounds South						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 4006)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	4	0.018 to 0.027	0.022
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	4	0.019 to 0.028	0.022
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	4	0.00 to 0.00	0.00
	CO (ppm)	--	No	4	0.0 to 0.0	0.0
	O ₂ (%)	--	No	4	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	4	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	4	0.0 to 0.0	0.0

Fixed Station 12: Rockton Fairgrounds West						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 4307)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	2	0.025 to 0.035	0.030
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	2	0.025 to 0.035	0.030
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	4	0.00 to 0.00	0.00
	CO (ppm)	--	No	4	0.0 to 0.0	0.0
	O ₂ (%)	--	No	4	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	4	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	4	0.0 to 0.0	0.0

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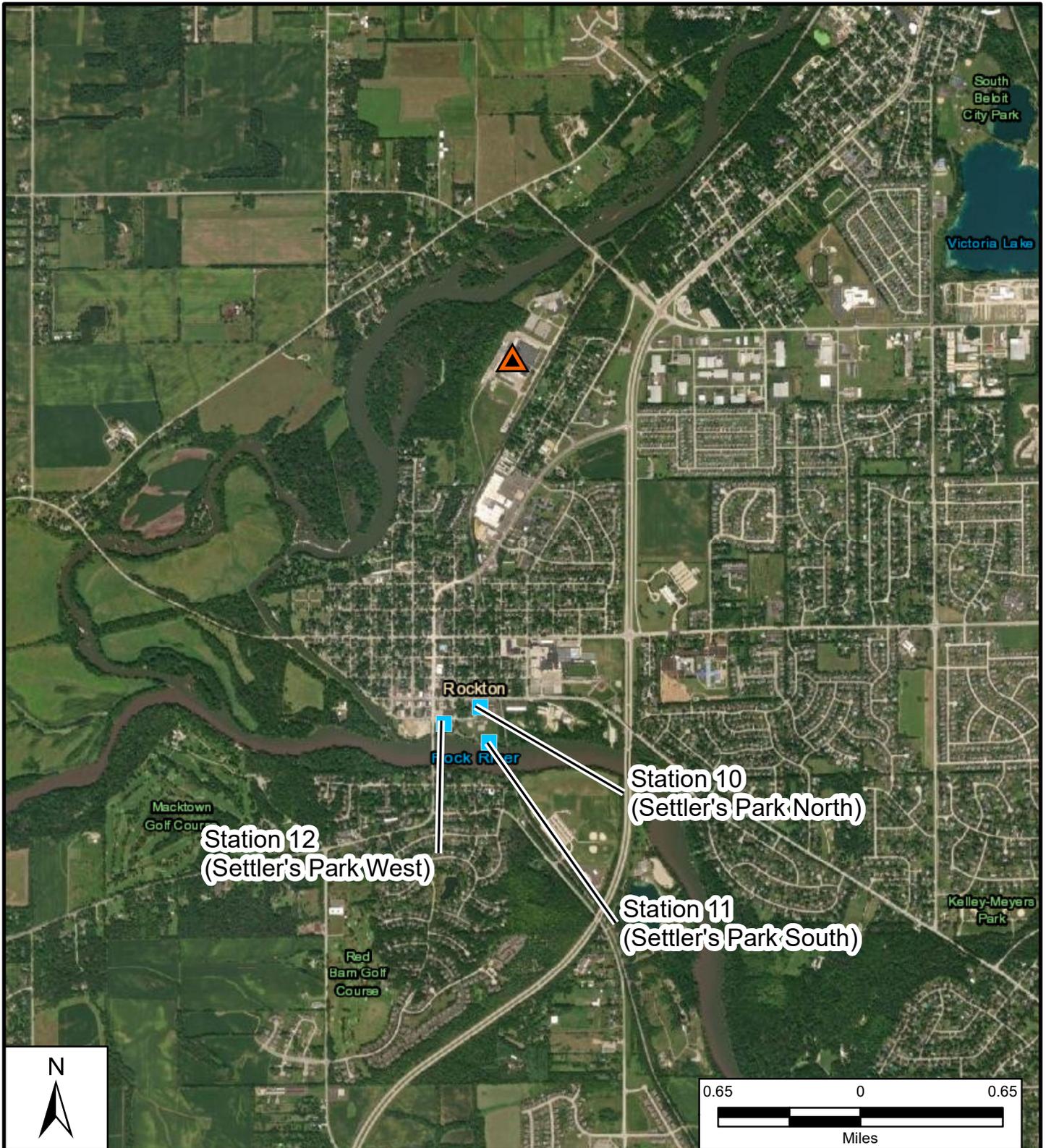
The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

Project Name: Rockton Chemtool Fire ER
Date/Time: 06/20/21 15:52 to 06/21/21 06:07
Weather
Temperature: high of 75°F, low of 62°F
Wind Speed: 4 to 15 miles per hour
Wind Direction: South/Southwest to North/Northwest
Conditions: Overcast/Scattered Rain and Thunderstorms

The table below summarizes preliminary air monitoring data collected using Handheld DustTrak instruments.

Roaming Data						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
MultiRAE Pro	VOC (ppm)	1 ppm	Yes	7	0.00 to 1.06	0.15
	CO (ppm)	--	No	7	0.0 to 2.6	0.7
	O ₂ (%)	--	No	7	20.8 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	7	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	7	0.0 to 0.0	0.0
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	8	0.000 to 0.000	0.000
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	8	0.000 to 0.000	0.000

Comments
Air monitoring measurements have been averaged over a 1-hour time period and summarized above.
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.
Air monitoring was not performed during inclement weather conditions/rain and thunderstorms.
1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR
Notes: CO - Carbon Monoxide H ₂ S - Hydrogen Sulfide O ₂ - Oxygen ppm - Parts per million VOC - Volatile organic compounds



Site Location

Legend

-  Fire Location
-  EPA Air Monitoring Station

Note: Monitoring station locations subject to change based on weather and operational objectives

Source: Esri 2020

Rockton Chemtool Fire ER
Rockton, IL

Figure 1
Settler's Park
Air Monitoring Stations



Prepared For: USEPA

Prepared By: Tetra Tech Inc.