

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: 06/19/21 17:00 to 06/20/21 01:51

Weather

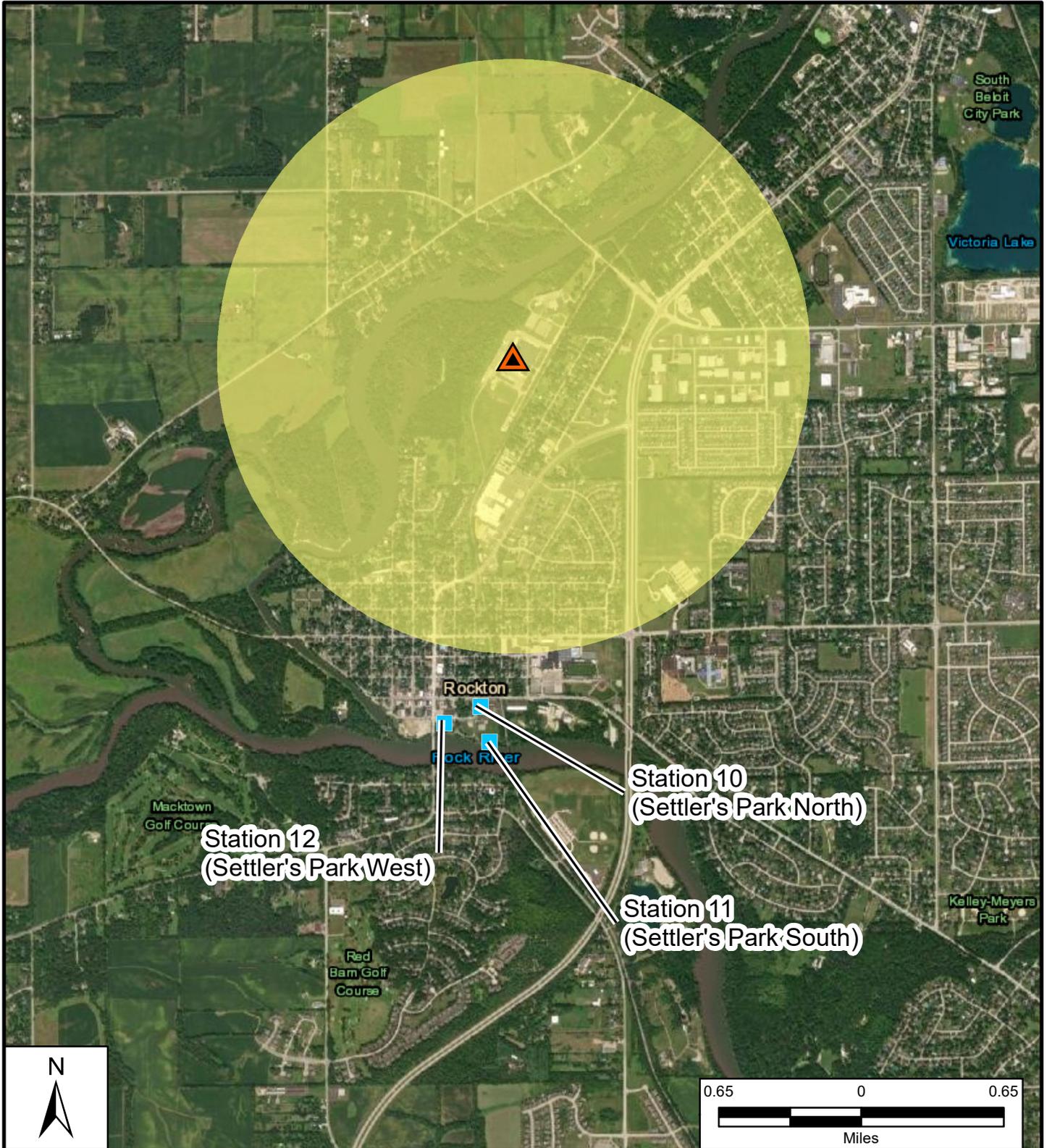
Temperature: high of 84°F, low of 60°F
Wind Speed: 0 to 3 miles per hour
Wind Direction: East/Southeast
Conditions: Mostly Clear

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: 3913)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	7	0.005 to 0.023	0.011
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	7	0.007 to 0.024	0.013
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	7	0.02 to 0.24	0.14
	CO (ppm)	--	No	7	0.0 to 0.2	0.0
	O ₂ (%)	--	No	7	21.4 to 21.7	21.6
	H ₂ S (ppm)	0.1 mg/m ³	No	7	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	7	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	8	0.001 to 0.032	0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	8	0.001 to 0.032	0.016
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	9	0.00 to 0.00	0.00
	CO (ppm)	--	No	9	0.0 to 9.7	2.2
	O ₂ (%)	--	No	9	20.9 to 21.5	21.2
	H ₂ S (ppm)	0.1 mg/m ³	No	9	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	9	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	7	0.005 to 0.038	0.016
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	7	0.005 to 0.038	0.016
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	8	0.00 to 0.00	0.00
	CO (ppm)	--	No	8	0.0 to 8.1	1.1
	O ₂ (%)	--	No	8	22.1 to 22.6	22.3
	H ₂ S (ppm)	0.1 mg/m ³	No	8	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	8	0.0 to 0.0	0.0

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.						
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
-  1 Mile Evacuation Radius

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.