

# Air Monitoring Summary Tables: Old Settlers Day Festival

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

**Project Name:** Rockton Chemtool Fire ER

**Date/Time:** 06/18/21 17:00 to 06/19/21 00:56

**Weather**

**Temperature:** 57.2°, high of 93.2°

**Wind Speed:** 6 - 16 miles per hour

**Wind Direction:** South/Southwest

**Conditions:** Mostly Cloudy

**Date/Time:** 6/18/2021 13:26 to 16:58

Roaming Data					
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
MultiRAE Pro	H <sub>2</sub> S (ppm)	0.1 ppm	No	1	0.000 to 0.000
	HCN	1 ppm	No	1	0.000 to 0.000
	VOC (ppm)	1 ppm	No	2	0.000 to 0.020

**Date/Time:** 6/18/2021 17:54 to 22:42

Roaming Data						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	3	0.000 to 0.001	0.001
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	3	0.000 to 0.001	0.001

Fixed Station 12: Rockton Fairgrounds West						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	8	0.005 to 0.015	0.007
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	8	0.005 to 0.016	0.008
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	2	0.00 to 0.00	0.16
	CO (ppm)	--	No	2	6.1 to 6.1	6.1
	O <sub>2</sub> (%)	--	No	2	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	2	0.0 to 0.0	0.0

Fixed Station 11: Rockton Fairgrounds South						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	5	0.002 to 0.012	0.005
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.003 to 0.013	0.006
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	3	0.00 to 0.00	0.00
	CO (ppm)	--	No	3	1.5 to 3.5	2.6
	O <sub>2</sub> (%)	--	No	3	20.3 to 20.3	20.3
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	3	0.0 to 0.0	0.0

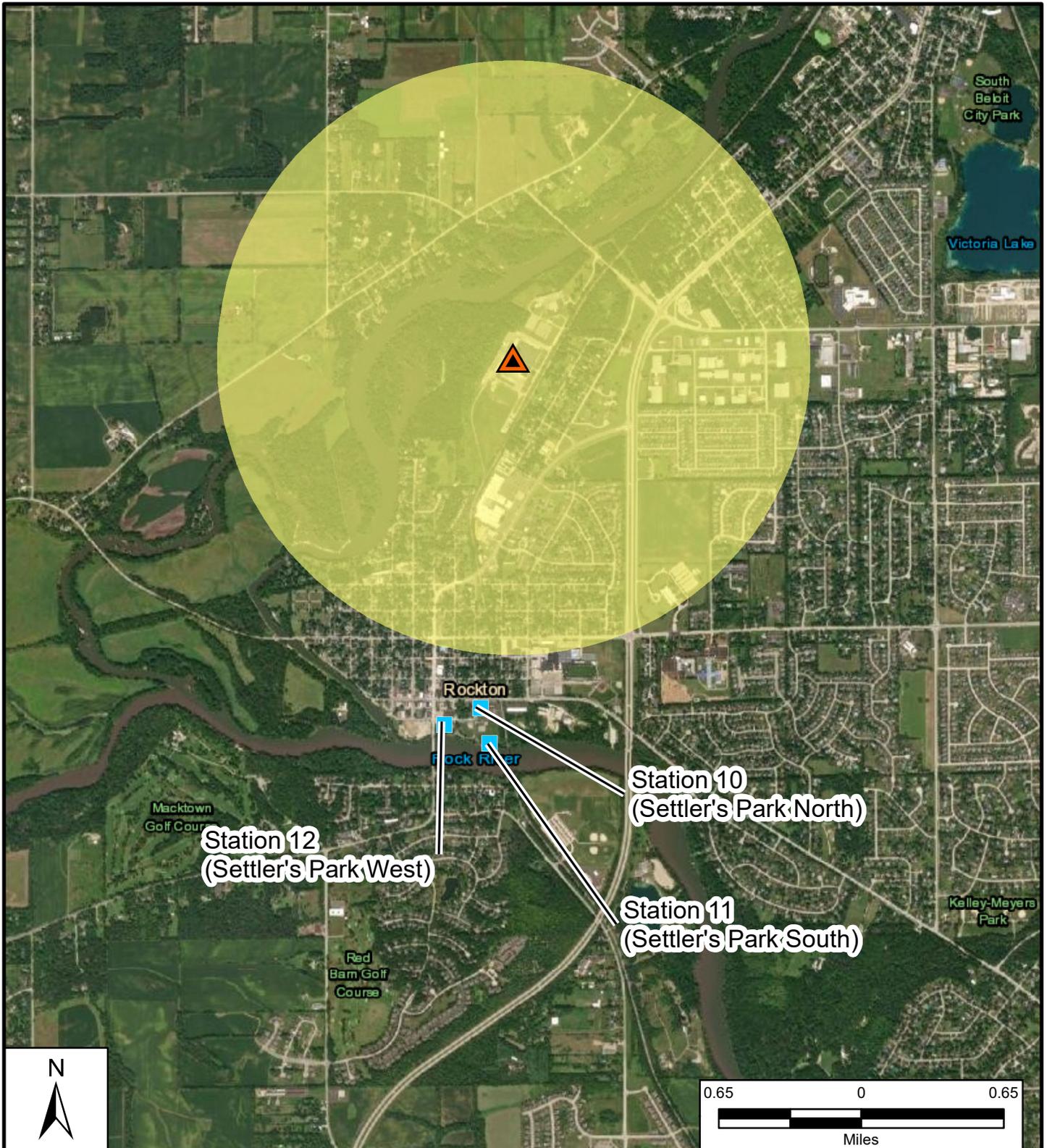
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**Wind Direction:** South/Southwest  
**Conditions:** Mostly Cloudy

Fixed Station 10: Rockton Fairgrounds North						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	7	0.004 to 0.018	0.010
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	7	0.005 to 0.020	0.012
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	1	0.00 to 0.00	0.00
	CO (ppm)	--	No	1	1.0 to 1.0	1.0
	O <sub>2</sub> (%)	--	No	1	21.1 to 21.1	21.1
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	1	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
<b>Notes:</b> CO - Carbon Monoxide H <sub>2</sub> S - Hydrogen Sulfide O <sub>2</sub> - 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**  
**06/18/21 17:00 to 06/19/21 00:56**



Prepared For: USEPA

Prepared By: Tetra Tech Inc.