

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 07:07 to 06/19/21 18:02
Weather:
Temperature: high of 87°F, low of 60°F
Wind Speed: 5 to 10 miles per hour
Wind Direction: Northwest
Conditions: Partly Cloudy

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
DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	9	0.000 to 0.001	0.000
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.000 to 0.001	0.000

Roaming Data					
Instrument	Analyte	Chemtool 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	35	0.000 to 0.000
	HCN	1 ppm	No	35	0.000 to 0.000
	VOC (ppm)	1 ppm	No	35	0.000 to 0.000
Handheld DustTrak	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	28	0.000 to 0.002

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	9	0.004 to 0.012	0.008
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.005 to 0.012	0.009
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	8	0.00 to 0.05	0.01
	CO (ppm)	--	No	8	0.0 to 0.1	0.0
	O ₂ (%)	--	No	8	21.5 to 21.6	21.5
	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

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	No	9	0.001 to 0.008	0.003
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.001 to 0.009	0.004
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	9	0.00 to 0.00	0.00
	CO (ppm)	--	No	9	0.1 to 9.3	3.8
	O ₂ (%)	--	No	9	21.0 to 21.5	21.3
	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

Air Monitoring Summary Tables: Old Settlers Day Festival

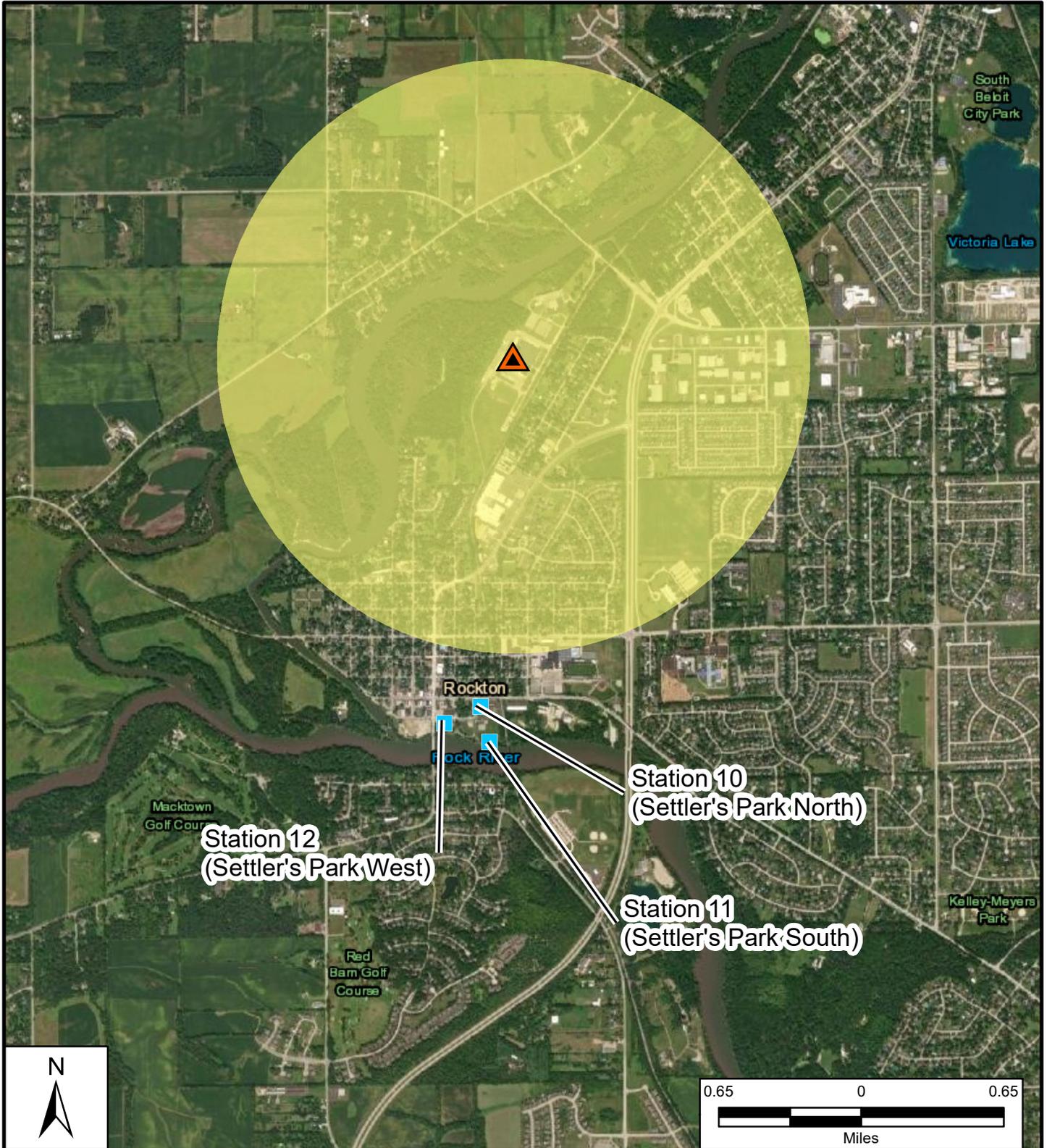
The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

Project Name: Rockton Chemtool Fire ER
Date/Time: 06/19/21 07:07 to 06/19/21 18:02
Weather:
Temperature: high of 87°F, low of 60°F
Wind Speed: 5 to 10 miles per hour
Wind Direction: Northwest
Conditions: Partly Cloudy

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	No	9	0.005 to 0.010	0.008
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.006 to 0.011	0.008
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	9	0.00 to 0.00	0.01
	CO (ppm)	--	No	9	0.0 to 8.1	4.3
	O ₂ (%)	--	No	9	22.1 to 22.2	22.1
	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

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
H₂S - Hydrogen Sulfide
O₂ - Oxygen
ppm - Parts per million
VOC - Volatile organic compounds



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.