

Air Monitoring Summary Tables

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: 06/22/21 02:01 to 06/22/21 17:54

Weather

Temperature: high of 75°F, low of 46°F
Wind Speed: 0 to 12 miles per hour
Wind Direction: West/Northwest
Conditions: Partly Cloudy

Fixed Station #4: Corner of Union and Ferry						
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: 4304)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	13	0.002 to 0.006	0.004
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	13	0.002 to 0.006	0.004
AreaRAE Pro (S/N: 2172)	VOC (ppm)	1 ppm	No	14	0.00 to 0.00	0.00
	CO (ppm)	--	No	14	0.0 to 0.3	0.0
	O ₂ (%)	--	No	14	20.8 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	14	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	14	0.0 to 0.3	0.1

Fixed Station #5: Stand alone area near stop sign on Chapel and Bridge St						
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
AreaRAE Pro (S/N: 0640)	VOC (ppm)	1 ppm	No	12	0.00 to 0.11	0.01
	CO (ppm)	--	No	12	0.0 to 0.3	0.0
	O ₂ (%)	--	No	12	21.2 to 21.5	21.3
	H ₂ S (ppm)	0.1 ppm	No	12	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	12	0.0 to 0.0	0.0

Fixed Station #6: Corner of Union and Chapel						
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	No	13	0.000 to 0.006	0.002
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	13	0.000 to 0.006	0.002
AreaRAE Pro (S/N: 0643)	VOC (ppm)	1 ppm	No	14	0.00 to 0.00	0.00
	CO (ppm)	--	No	14	0.0 to 0.1	0.0
	O ₂ (%)	--	No	14	20.9 to 21.3	21.0
	H ₂ S (ppm)	0.1 ppm	No	14	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	14	0.0 to 0.1	0.0

Fixed Station #13: North Residential - 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
AreaRAE Pro (S/N: 2412)	VOC (ppm)	1 ppm	No	13	0.00 to 0.03	0.01
	CO (ppm)	--	No	13	0.0 to 0.0	0.0
	O ₂ (%)	--	No	13	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	13	0.0 to 0.0	0.0

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Fixed Station #14: North Residential - East						
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
AreaRAE Pro (S/N: 2413)	VOC (ppm)	1 ppm	No	13	0.00 to 0.00	0.00
	CO (ppm)	--	No	13	0.0 to 0.4	0.0
	O ₂ (%)	--	No	13	20.9 to 21.2	20.9
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	13	0.0 to 0.1	0.0

Fixed Station #15: North Residential - 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
AreaRAE Pro (S/N: 2411)	VOC (ppm)	1 ppm	No	13	0.00 to 0.02	0.00
	CO (ppm)	--	No	13	0.0 to 13.4	5.6
	O ₂ (%)	--	No	13	20.5 to 21.8	21.2
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	13	0.0 to 0.0	0.0

Fixed Station #16: North Residential - 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
AreaRAE Pro (S/N: 2410)	VOC (ppm)	1 ppm	No	13	0.00 to 0.00	0.00
	CO (ppm)	--	No	13	0.0 to 0.0	0.0
	O ₂ (%)	--	No	13	20.1 to 21.9	21.0
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0

Fixed Station #17: Northeast Residential - 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: 3913)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	14	0.001 to 0.004	0.002
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	14	0.002 to 0.004	0.003
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	13	0.00 to 0.00	0.00
	CO (ppm)	--	No	13	0.0 to 0.3	0.0
	O ₂ (%)	--	No	13	20.6 to 21.9	21.0
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	13	0.0 to 0.5	0.2

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Wind Speed: 0 to 12 miles per hour
Wind Direction: West/Northwest
Conditions: Partly Cloudy

Fixed Station #18: Northeast Residential - East						
Instrument	Analyte	Chemtool Public Health Screening	Public Health Screening Level	Number of 1-Hour Periods	1-Hour Period Concentration	Average of All 1-Hour Periods
DustTrak (S/N: 4006)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	13	0.001 to 0.007	0.004
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	13	0.002 to 0.007	0.004
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	11	0.02 to 0.22	0.14
	CO (ppm)	--	No	11	0.0 to 0.0	0.0
	O ₂ (%)	--	No	11	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	11	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	11	0.0 to 0.0	0.0

Fixed Station #19: Northeast Residential - 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: 4307)	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	14	0.001 to 0.004	0.002
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	14	0.001 to 0.004	0.002
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	13	0.00 to 0.00	0.00
	CO (ppm)	--	No	13	0.0 to 0.0	0.0
	O ₂ (%)	--	No	13	20.9 to 20.9	20.9
	H ₂ S (ppm)	0.1 ppm	No	13	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	13	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.						
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						

Air Monitoring Summary Tables

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

Project Name: Rockton Chemtool Fire ER
Date/Time: 6/22/2021 07:18 to 6/22/2021 17:37

Weather

Temperature: high of 75°F, low of 46°F
Wind Speed: 0 to 12 miles per hour
Wind Direction: West/Northwest
Conditions: Partly Cloudy

Fixed Discrete Air Monitoring Location EZ-01: 1101-1159 Innovation Dr					
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	10	0.000 to 0.000
	HCN (ppm)	1 ppm	No	10	0.000 to 0.000
	VOC (ppm)	1 ppm	No	10	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	10	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	10	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	10	0.001 to 0.050
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	Yes	10	0.001 to 0.100

Fixed Discrete Air Monitoring Location EZ-03: 860-998 N Prairie St					
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	9	0.000 to 0.000
	HCN (ppm)	1 ppm	No	9	0.000 to 0.000
	VOC (ppm)	1 ppm	No	9	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	9	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	9	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	9	0.000 to 0.005
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.000 to 0.008

Fixed Discrete Air Monitoring Location EZ-05: 907-1099 Watts Ave					
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	11	0.000 to 0.000
	HCN (ppm)	1 ppm	No	11	0.000 to 0.000
	VOC (ppm)	1 ppm	No	11	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	11	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	11	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	11	0.000 to 0.015
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	11	0.001 to 0.015

See comments on last page.

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

Project Name: Rockton Chemtool Fire ER
Date/Time: 6/22/2021 07:18 to 6/22/2021 17:37

Weather

Temperature: high of 75°F, low of 46°F
Wind Speed: 0 to 12 miles per hour
Wind Direction: West/Northwest
Conditions: Partly Cloudy

Fixed Discrete Air Monitoring Location EZ-06: 14632 S Bluff Rd					
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	8	0.000 to 0.000
	HCN (ppm)	1 ppm	No	9	0.000 to 0.000
	VOC (ppm)	1 ppm	No	8	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	7	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	8	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	8	0.000 to 0.010
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	8	0.000 to 0.015

Fixed Discrete Air Monitoring Location EZ-07: 14728-14758 S Bluff Rd					
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	10	0.000 to 0.000
	HCN (ppm)	1 ppm	No	10	0.000 to 0.000
	VOC (ppm)	1 ppm	No	10	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	9	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	9	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	10	0.001 to 0.010
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	9	0.001 to 0.015

Fixed Discrete Air Monitoring Location EZ-08: 1001-1199 Prairie Hill Rd					
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	9	0.000 to 0.000
	HCN (ppm)	1 ppm	No	9	0.000 to 0.000
	VOC (ppm)	1 ppm	No	10	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	8	0.000 to 0.000
	SO ₂ (ppb)	200 ppb	No	9	0.000 to 0.000
Handheld DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	Yes	9	0.002 to 0.075
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	Yes	10	0.000 to 0.150

See comments on last page.

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

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

MDI - Methylene diphenyl diisocyanate

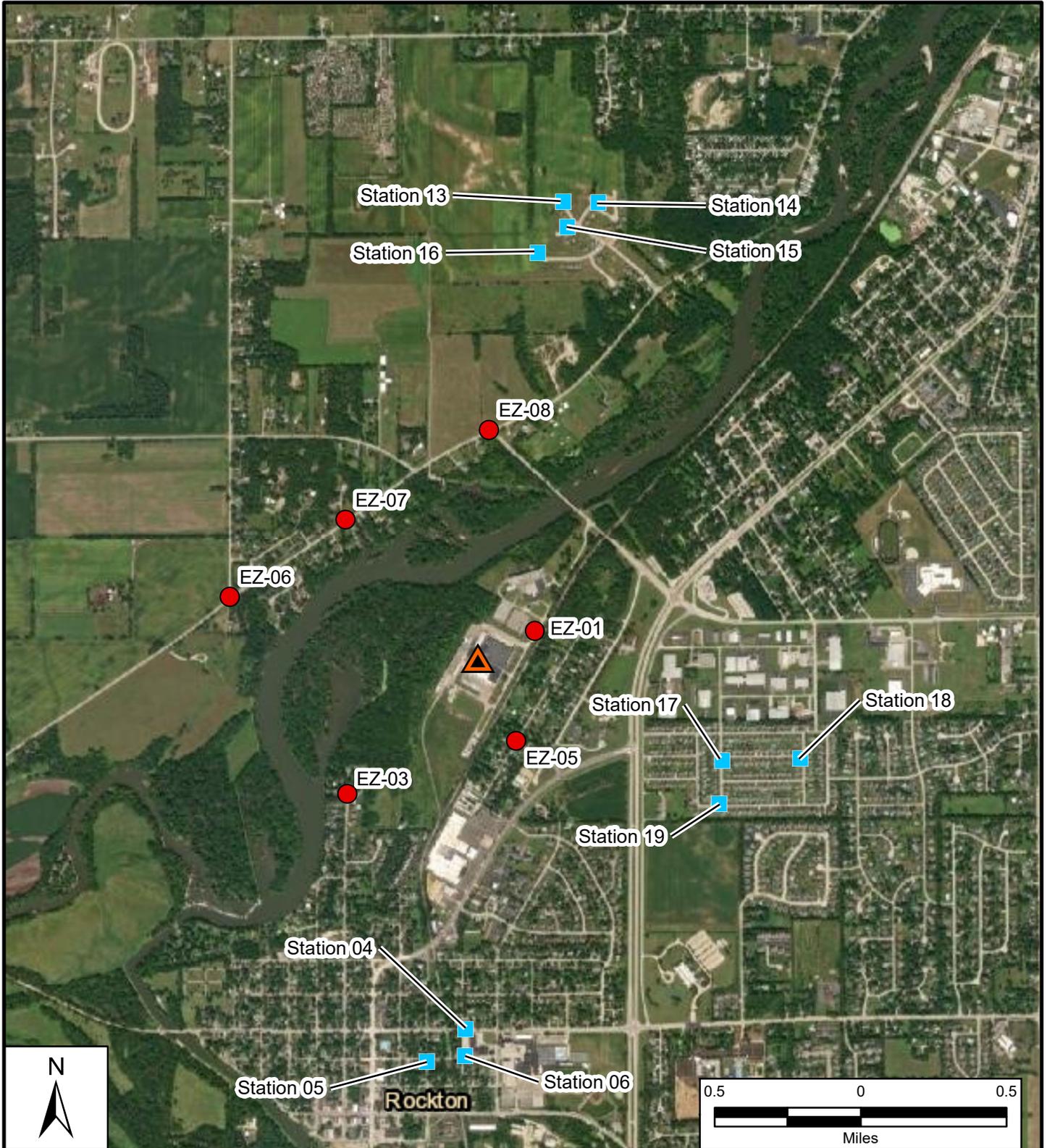
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppb - Parts per billion

ppm - Parts per million

VOC - Volatile organic compounds



Source: Esri 2020

Legend

- Fixed Discrete Air Monitoring Locations
- EPA Air Monitoring Station
- ▲ Fire Location

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

Rockton Chemtool Fire ER
Rockton, IL

Figure 1
Air Monitoring Stations
06/22/21 02:00 to 6/22/21 18:00



Prepared For: USEPA

Prepared By: Tetra Tech Inc.