

# 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 14:49 to 06/23/21 05:47

### Weather

**Temperature:** high of 73°F, low of 59°F  
**Wind Speed:** 3 to 10 miles per hour  
**Wind Direction:** South/Southeast  
**Conditions:** Mostly Cloudy

Fixed Station #4: Corner of Union and Ferry						
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 (S/N: 4304)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	12	0.004 to 0.016	0.007
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.004 to 0.016	0.007
AreaRAE Pro (S/N: 2172)	VOC (ppm)	1 ppm	No	12	0.00 to 0.00	0.00
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.6 to 20.9	20.7
	H <sub>2</sub> 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 #5: Stand alone area near stop sign on Chapel and Bridge St						
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
AreaRAE Pro (S/N: 0640)	VOC (ppm)	1 ppm	No	12	0.00 to 0.12	0.07
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	21.1 to 21.4	21.2
	H <sub>2</sub> 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 <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 (S/N: 3911)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	12	0.002 to 0.020	0.009
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.002 to 0.021	0.009
AreaRAE Pro (S/N: 0643)	VOC (ppm)	1 ppm	No	12	0.00 to 0.00	0.00
	CO (ppm)	--	No	12	0.0 to 0.2	0.0
	O <sub>2</sub> (%)	--	No	12	20.9 to 21.4	21.1
	H <sub>2</sub> S (ppm)	0.1 ppm	No	12	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	12	0.0 to 0.2	0.0

Fixed Station #13: North Residential - 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
AreaRAE Pro (S/N: 2412)	VOC (ppm)	1 ppm	No	12	0.00 to 0.07	0.04
	CO (ppm)	--	No	12	0.0 to 0.1	0.0
	O <sub>2</sub> (%)	--	No	12	20.9 to 20.9	20.9
	H <sub>2</sub> 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

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**Conditions:** Mostly Cloudy

Fixed Station #14: North Residential - East						
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
AreaRAE Pro (S/N: 2413)	VOC (ppm)	1 ppm	No	12	0.00 to 0.01	0.00
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.9 to 21.2	21.0
	H <sub>2</sub> S (ppm)	0.1 ppm	No	12	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	12	0.0 to 0.1	0.0

Fixed Station #15: North Residential - 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
AreaRAE Pro (S/N: 2411)	VOC (ppm)	1 ppm	No	8	0.08 to 0.18	0.16
	CO (ppm)	--	No	8	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	8	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 ppm	No	8	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	8	0.0 to 0.0	0.0

Fixed Station Station #16: North Residential - 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
AreaRAE Pro (S/N: 2410)	VOC (ppm)	1 ppm	No	7	0.00 to 0.00	0.00
	CO (ppm)	--	No	7	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	7	19.7 to 20.8	20.2
	H <sub>2</sub> S (ppm)	0.1 ppm	No	7	0.0 to 0.0	0.0

Fixed Station #17: Northeast Residential - 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 (S/N: 3913)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	11	0.003 to 0.005	0.004
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.003 to 0.006	0.004
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	12	0.00 to 0.00	0.00
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.5 to 20.9	20.8
	H <sub>2</sub> 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

See comments on last page.

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**Project Name:** Rockton Chemtool Fire ER  
**Date/Time:** 06/22/21 14:49 to 06/23/21 05:47

### Weather

**Temperature:** high of 73°F, low of 59°F  
**Wind Speed:** 3 to 10 miles per hour  
**Wind Direction:** South/Southeast  
**Conditions:** Mostly 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 <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	12	0.003 to 0.009	0.006
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.003 to 0.009	0.007
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	12	0.00 to 0.11	0.06
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.3 to 20.6	20.4
	H <sub>2</sub> 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 #19: Northeast Residential - 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 (S/N: 4307)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	12	0.002 to 0.006	0.004
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.002 to 0.006	0.004
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 <sub>2</sub> (%)	--	No	13	20.9 to 20.9	20.9
	H <sub>2</sub> 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						
<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						

## 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 17:53 to 6/23/2021 05:18

### Weather

**Temperature:** high of 73°F, low of 59°F  
**Wind Speed:** 3 to 10 miles per hour  
**Wind Direction:** South/Southeast  
**Conditions:** Mostly Cloudy

Fixed Discrete Air Monitoring Location EZ-01: 1101-1159 Innovation Dr					
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	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 <sub>2</sub> (ppb)	200 ppb	No	10	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	10	0.013 to 0.180
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	10	0.016 to 0.023

Fixed Discrete Air Monitoring Location EZ-03: 860-998 N Prairie St					
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	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 <sub>2</sub> (ppb)	200 ppb	No	10	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	10	0.013 to 0.018
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	10	0.015 to 0.020

Fixed Discrete Air Monitoring Location EZ-05: 907-1099 Watts Ave					
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	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 <sub>2</sub> (ppb)	200 ppb	No	9	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	9	0.013 to 0.015
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	9	0.014 to 0.020

See comments on last page.

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**Project Name:** Rockton Chemtool Fire ER  
**Date/Time:** 6/22/2021 17:53 to 6/23/2021 05:18

### Weather

**Temperature:** high of 73°F, low of 59°F  
**Wind Speed:** 3 to 10 miles per hour  
**Wind Direction:** South/Southeast  
**Conditions:** Mostly Cloudy

Fixed Discrete Air Monitoring Location EZ-06: 14632 S Bluff Rd					
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	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 <sub>2</sub> (ppb)	200 ppb	No	11	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	11	0.012 to 0.016
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.012 to 0.019

Fixed Discrete Air Monitoring Location EZ-07: 14728-14758 S Bluff Rd					
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	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 <sub>2</sub> (ppb)	200 ppb	No	9	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	9	0.014 to 0.016
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	9	0.015 to 0.020

Fixed Discrete Air Monitoring Location EZ-08: 1001-1199 Prairie Hill Rd					
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	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 <sub>2</sub> (ppb)	200 ppb	No	10	0.000 to 0.000
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	10	0.012 to 0.020
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	10	0.014 to 0.022

See comments on last page.

Comments
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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
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1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR.
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**Notes:**

CO - Carbon Monoxide

H<sub>2</sub>S - Hydrogen Sulfide

O<sub>2</sub> - Oxygen

MDI - Methylene diphenyl diisocyanate

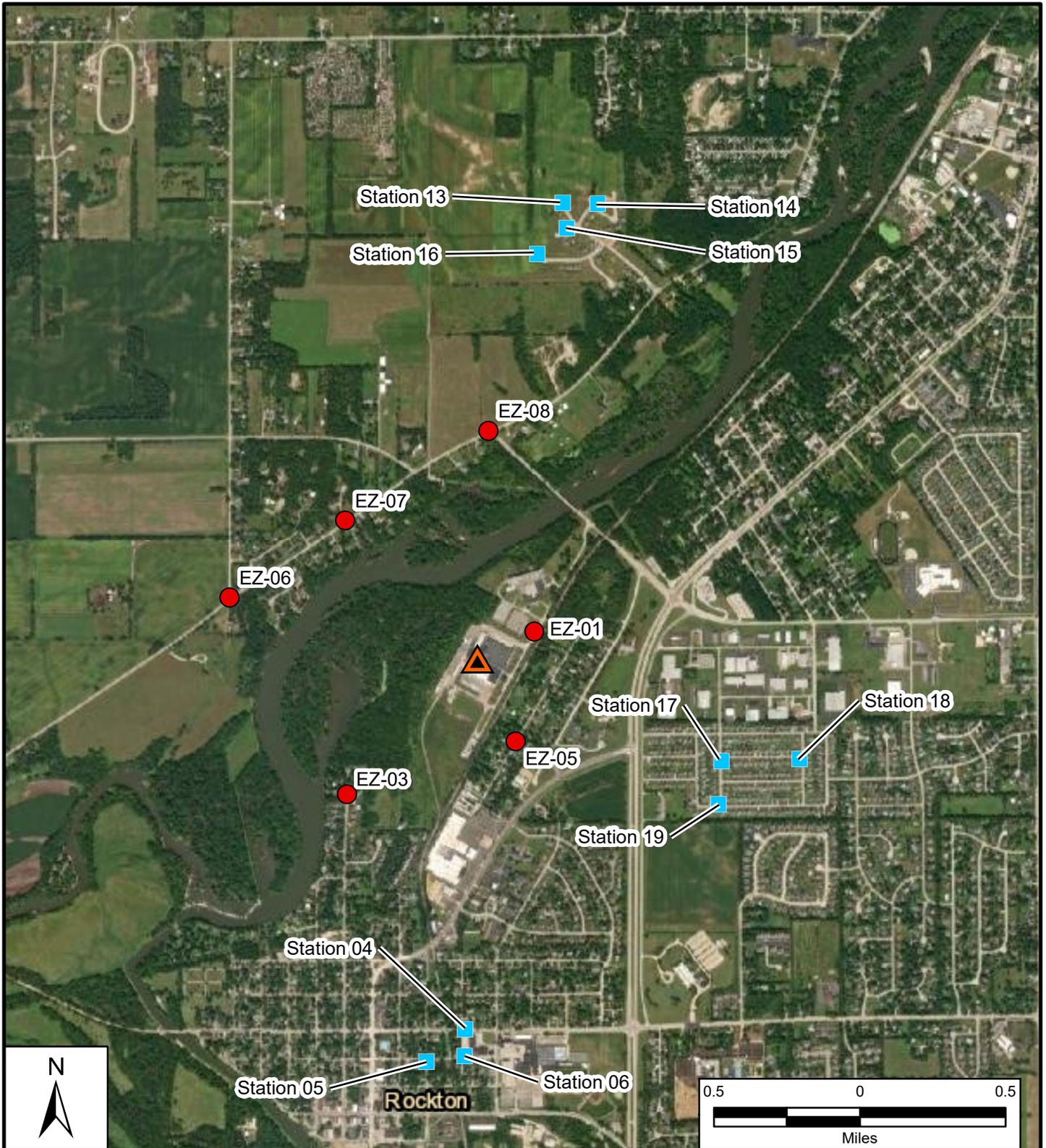
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

PM<sub>10</sub> - 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 17:00 to 6/23/21 06:00



Prepared For: USEPA

Prepared By: Tetra Tech Inc.