

# 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:** 06/20/21 03:22 to 06/20/21 17:43

**Weather**

**Temperature:** high of 78°F, low of 59°F  
**Wind Speed:** 0 to 6 miles per hour  
**Wind Direction:** South/Southwest  
**Conditions:** Overcast/Scattered Showers

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: 2411)	VOC (ppm)	1 ppm	No	10	0.00 to 0.92	0.10
	CO (ppm)	--	No	10	0.0 to 3.0	0.3
	O <sub>2</sub> (%)	--	No	10	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	10	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	10	0.0 to 0.0	0.0

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: 2412)	VOC (ppm)	1 ppm	No	10	0.05 to 0.08	0.06
	CO (ppm)	--	No	10	0.0 to 0.1	0.0
	O <sub>2</sub> (%)	--	No	10	20.9 to 21.1	20.9
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	10	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	10	0.0 to 0.0	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: 2410)	VOC (ppm)	1 ppm	No	1	0.00 to 0.00	0.00
	CO (ppm)	--	No	1	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	1	20.5 to 20.5	20.5
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	1	0.0 to 0.0	0.0

Fixed 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: 2413)	VOC (ppm)	1 ppm	No	10	0.05 to 0.08	0.06
	CO (ppm)	--	No	10	0.0 to 0.1	0.0
	O <sub>2</sub> (%)	--	No	10	20.2 to 21.2	20.4
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	10	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	10	0.0 to 0.0	0.0

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>	Yes	13	0.009 to 0.035	0.022
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	13	0.009 to 0.035	0.022
AreaRAE Pro (S/N: 2172)	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	20.2 to 20.5	20.3
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	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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**Weather**

**Temperature:** high of 78°F, low of 59°F  
**Wind Speed:** 0 to 6 miles per hour  
**Wind Direction:** South/Southwest  
**Conditions:** Overcast/Scattered Showers

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	11	0.00 to 0.02	0.00
	CO (ppm)	--	No	11	0.0 to 0.2	0.0
	O <sub>2</sub> (%)	--	No	11	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	11	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	11	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>	Yes	12	0.012 to 0.043	0.026
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.012 to 0.043	0.026
AreaRAE Pro (S/N: 0643)	VOC (ppm)	1 ppm	No	13	0.00 to 0.02	0.00
	CO (ppm)	--	No	13	0.0 to 1.4	0.3
	O <sub>2</sub> (%)	--	No	13	20.7 to 21.1	20.9
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	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.						
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.

**Date/Time:** 6/20/2021 07:35 to 18:40

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	38	0.000 to 0.000
	HCN	1 ppm	No	38	0.000 to 0.000
	VOC (ppm)	1 ppm	No	38	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	7	0.000 to 1.0
	SO <sub>2</sub> (ppb)	0.2 ppm	No	7	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	7	0.015 to 0.120
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	Yes	7	0.015 to 0.140

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	6	0.000 to 0.000
	HCN	1 ppm	No	6	0.000 to 0.000
	VOC (ppm)	1 ppm	No	6	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	6	0.000 to 0.5
	SO <sub>2</sub> (ppb)	0.2 ppm	No	6	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	6	0.015 to 0.040
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	6	0.020 to 0.040

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	6	0.000 to 0.000
	HCN	1 ppm	No	6	0.000 to 0.000
	VOC (ppm)	1 ppm	No	6	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	6	0.000 to 0.8
	SO <sub>2</sub> (ppb)	0.2 ppm	No	6	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	5	0.015 to 0.045
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.020 to 0.050

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**Date/Time:** 6/20/2021 07:35 to 18:40

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	5	0.000 to 0.000
	HCN	1 ppm	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	5	0.000 to 0.700
	SO <sub>2</sub> (ppb)	0.2 ppm	No	5	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	5	0.015 to 0.040
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.020 to 0.040

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	5	0.000 to 0.000
	HCN	1 ppm	No	6	0.000 to 0.000
	VOC (ppm)	1 ppm	No	6	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	4	0.000 to 0.600
	SO <sub>2</sub> (ppb)	0.2 ppm	No	5	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	5	0.015 to 0.025
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.000 to 0.030

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	5	0.000 to 0.000
	HCN	1 ppm	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	5	0.000 to 0.600
	SO <sub>2</sub> (ppb)	0.2 ppm	No	5	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	5	0.015 to 0.030
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.020 to 0.030

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**Date/Time:** 6/20/2021 07:35 to 18:40

Fixed Discrete Air Monitoring Location EZ-09: Guetschow Ave & Fischer 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	5	0.000 to 0.000
	HCN	1 ppm	No	5	0.000 to 0.000
	VOC (ppm)	1 ppm	No	5	0.000 to 0.000
SPM Flex	MDI (ppb)	5 ppb	No	5	0.000 to 0.600
	SO <sub>2</sub> (ppb)	0.2 ppm	No	5	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	5	0.010 to 0.025
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	5	0.015 to 0.025

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

O<sub>2</sub> - Oxygen

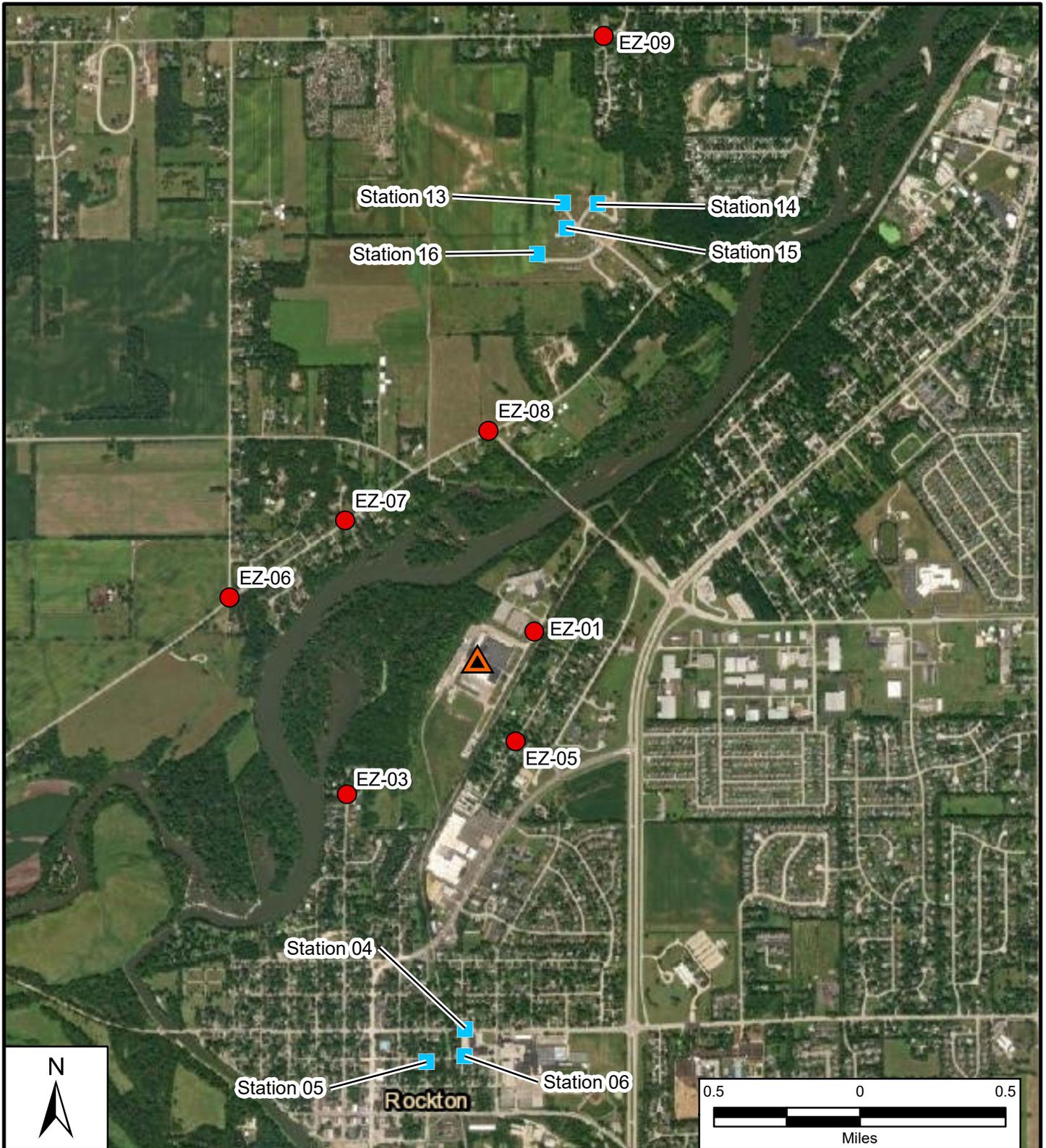
MDI - Methylene diphenyl diisocyanate

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

PM<sub>10</sub> - particles that are 10 micrometers and smaller

ppm - Parts per million

VOC - Volatile organic compounds



Source: Esri 2020

### Legend

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

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

Rockton Chemtool Fire ER  
Rockton, IL

**Figure 1**  
**Air Monitoring Stations**  
**06/20/2021 03:00 - 06/20/2021 19:00**



Prepared For: USEPA

Prepared By: Tetra Tech Inc.