

Table 1  
Community Roving Air Monitoring Results Summary Table  
East Palestine Derailment Emergency Response  
East Palestine, Ohio  
Monitoring Period: 08/03/2023 08:00 to 08/03/2023 15:56

Location	Date/Time	VOC (ppm)	PM <sub>2.5</sub> (mg/m <sup>3</sup> ) <sup>1</sup>	PM <sub>10</sub> (mg/m <sup>3</sup> ) <sup>1</sup>
		Screening Levels		
		0.5 ppm	0.035 mg/m <sup>3</sup>	0.070 mg/m <sup>3</sup>
PCR-N-03	8/3/2023 8:11	0	0.08	0.099
	8/3/2023 10:41	0	0.059	0.061
	8/3/2023 14:20	0	0.037	0.039
PCR-N-04	8/3/2023 8:46	0	0.08	0.093
	8/3/2023 11:11	0	0.05	0.05
	8/3/2023 14:44	0	0.038	0.043
PCR-N-05	8/3/2023 8:49	0	0.076	0.082
	8/3/2023 11:25	0	1.31	3.24
	8/3/2023 14:53	0	0.042	0.044
PCR-N-06	8/3/2023 8:35	0	0.077	0.08
	8/3/2023 11:06	0	0.054	0.059
	8/3/2023 14:41	0	0.038	0.038
PCR-N-07	8/3/2023 8:14	0	0.106	0.17
	8/3/2023 10:46	0	0.06	0.062
	8/3/2023 14:25	0	0.036	0.038
PCR-N-08	8/3/2023 8:17	0	0.091	0.128
	8/3/2023 10:46	0	0.06	0.062
	8/3/2023 14:28	0	0.036	0.038
PCR-N-09	8/3/2023 8:24	0	0.084	0.104
	8/3/2023 10:56	0	0.053	0.055
	8/3/2023 14:33	0	0.036	0.038
PCR-N-10	8/3/2023 8:30	0	0.083	0.101
	8/3/2023 11:01	0	0.055	0.063
	8/3/2023 14:33	0	0.038	0.039
PCR-N-11	8/3/2023 8:54	0	0.082	0.086
	8/3/2023 11:25	0	0.046	0.047
	8/3/2023 15:00	0	0.036	0.038
PCR-N-12	8/3/2023 9:00	0	0.079	0.082
	8/3/2023 11:35	0	0.059	0.088
	8/3/2023 15:06	0	0.035	0.035
PCR-N-13	8/3/2023 8:41	0	0.083	0.096
	8/3/2023 11:11	0	0.054	0.061
	8/3/2023 14:44	0	0.036	0.039
PCR-S-01	8/3/2023 10:23	0	0.064	0.069
	8/3/2023 12:30	0	0.063	0.105
	8/3/2023 15:56	0	0.034	0.036
PCR-S-04	8/3/2023 10:05	0	0.069	0.07
	8/3/2023 12:23	0	0.039	0.041
	8/3/2023 15:50	0	0.033	0.034

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Location	Date/Time	VOC (ppm)	PM <sub>2.5</sub> (mg/m <sup>3</sup> ) <sup>1</sup>	PM <sub>10</sub> (mg/m <sup>3</sup> ) <sup>1</sup>
		Screening Levels		
		0.5 ppm	0.035 mg/m <sup>3</sup>	0.070 mg/m <sup>3</sup>
PCR-S-05	8/3/2023 9:51	0	0.08	0.087
	8/3/2023 12:12	0	0.037	0.038
	8/3/2023 15:41	0	0.034	0.039
PCR-S-06	8/3/2023 9:44	0	0.072	0.078
	8/3/2023 12:06	0	0.039	0.041
	8/3/2023 15:36	0	0.042	0.054
PCR-S-07	8/3/2023 9:37	0	0.074	0.075
	8/3/2023 12:01	0	0.042	0.042
	8/3/2023 15:31	0	0.034	0.036
PCR-S-08	8/3/2023 9:09	0	0.127	0.2
	8/3/2023 11:41	0	0.048	0.054
	8/3/2023 15:11	0	0.036	0.039
PCR-S-09	8/3/2023 9:59	0	0.071	0.074
	8/3/2023 12:12	0	0.037	0.039
	8/3/2023 15:46	0	0.033	0.035
PCR-S-10	8/3/2023 8:00	0	0.077	0.097
	8/3/2023 10:35	0	0.06	0.062
	8/3/2023 14:14	0	0.034	0.036
PCR-S-14	8/3/2023 9:21	0	0.078	0.081
	8/3/2023 11:48	0	0.04	0.044
	8/3/2023 15:18	0	0.035	0.037
PCR-S-15	8/3/2023 9:28	0	0.107	0.156
	8/3/2023 11:50	0	0.07	0.103
	8/3/2023 15:22	0	0.04	0.058
PCR-S-16	8/3/2023 9:32	0	0.077	0.081
	8/3/2023 11:56	0	0.043	0.048
	8/3/2023 15:27	0	0.041	0.051

Notes:

Highlighted indicate detections above screening levels

1 - Site-Specific Public Health Screening Levels for particulate matter are based on 24-hour time-weighted averages (TWAs). Fixed discrete monitoring readings are discrete readings, and so do not represent conditions over a full 24-hour period. Screening levels were modified on March 16, 2023 to reflect updated operation procedures on when to apply mitigation methods to reduce dust. Action levels set by health departments have not changed.

mg/m<sup>3</sup> - milligrams per cubic meter

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

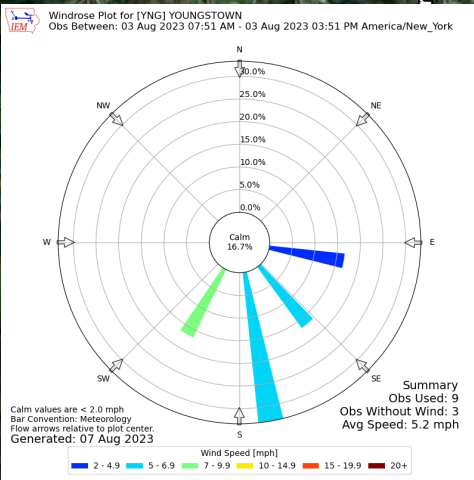
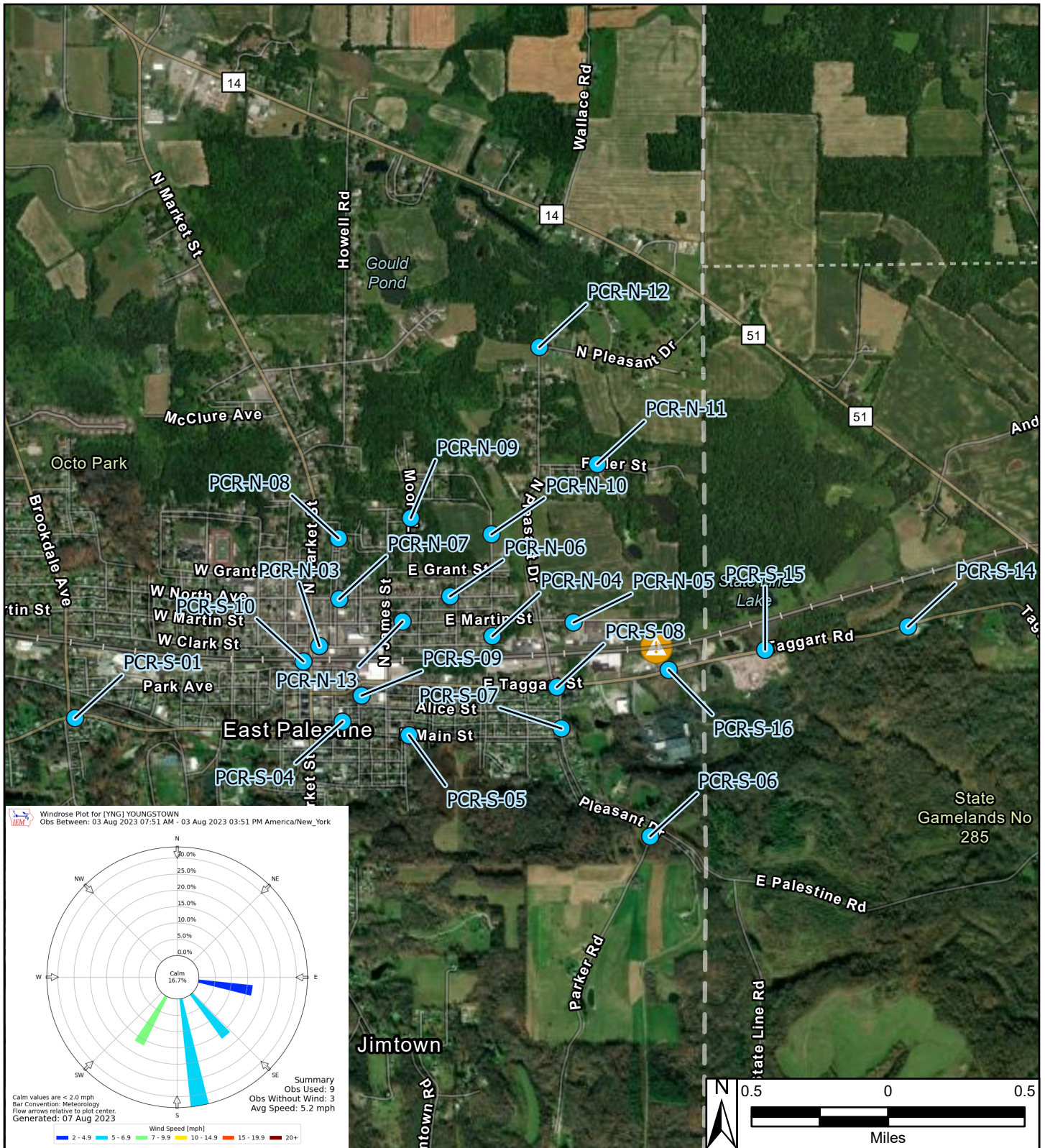
PM<sub>10</sub> - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds





**Legend**

- Roaming Air Monitoring Locations
- ⚠ Derailment Location
- One Mile Radius

East Palestine Derailment ER Site  
 East Palestine, Columbiana County, OH 44413

**Figure 1**  
**Roaming Air Monitoring Community Locations**

Prepared For: EPA      Prepared By: Tetra Tech Inc.