

Table 1  
 Community Roving Air Monitoring Results Summary Table  
 East Palestine Derailment Emergency Response  
 East Palestine, Ohio  
 Monitoring Period: 04/05/2023 08:09 to 04/05/2023 17:04

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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-N-03	4/5/2023 8:21	0	0.027	0.037
	4/5/2023 11:11	0	0.03	0.038
	4/5/2023 14:45	0	0.01	0.012
PCR-N-04	4/5/2023 9:02	0	0.025	0.033
	4/5/2023 11:41	0	0.027	0.032
	4/5/2023 15:09	0	0.016	0.019
PCR-N-05	4/5/2023 9:07	0	0.023	0.027
	4/5/2023 12:00	0	0.101	0.219
	4/5/2023 15:13	0	0.018	0.027
PCR-N-06	4/5/2023 8:47	0	0.023	0.028
	4/5/2023 11:32	0	0.042	0.045
	4/5/2023 15:04	0	0.017	0.02
PCR-N-07	4/5/2023 8:27	0	0.023	0.027
	4/5/2023 11:13	0	0.032	0.037
	4/5/2023 14:47	0	0.016	0.02
PCR-N-08	4/5/2023 8:30	0	0.025	0.028
	4/5/2023 11:17	0	0.023	0.026
	4/5/2023 14:50	0	0.025	0.03
PCR-N-09	4/5/2023 8:38	0	0.027	0.03
	4/5/2023 11:22	0	0.027	0.029
	4/5/2023 14:54	0	0.015	0.019
PCR-N-10	4/5/2023 8:42	0	0.022	0.025
	4/5/2023 11:28	0	0.024	0.026
	4/5/2023 15:00	0	0.016	0.021
PCR-N-11	4/5/2023 9:13	0	0.02	0.024
	4/5/2023 13:19	0	0.015	0.017
	4/5/2023 15:17	0	0.023	0.028
PCR-N-12	4/5/2023 9:18	0	0.029	0.032
	4/5/2023 13:23	0	0.02	0.024
	4/5/2023 15:22	0	0.012	0.014
PCR-N-13	4/5/2023 8:54	0	0.02	0.024
	4/5/2023 11:37	0	0.036	0.059
	4/5/2023 15:06	0	0.029	0.019
PCR-S-01	4/5/2023 10:17	0	0.023	0.029
	4/5/2023 14:15	0	0.017	0.017
	4/5/2023 17:04	0	0.022	0.03

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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-04	4/5/2023 10:05	0	0.029	0.034
	4/5/2023 14:08	0	0.021	0.026
	4/5/2023 16:53	0	0.023	0.036
PCR-S-05	4/5/2023 10:03	0	0.022	0.025
	4/5/2023 14:06	0	0.016	0.021
	4/5/2023 16:49	0	0.031	0.065
PCR-S-06	4/5/2023 9:57	0	0.029	0.032
	4/5/2023 14:01	0	0.031	0.034
	4/5/2023 15:52	0	0.016	0.018
PCR-S-07	4/5/2023 9:51	0	0.022	0.025
	4/5/2023 13:57	0	0.016	0.018
	4/5/2023 15:48	0	0.011	0.014
PCR-S-08	4/5/2023 9:27	0	0.021	0.024
	4/5/2023 13:33	0	0.017	0.018
	4/5/2023 15:31	0	0.011	0.012
PCR-S-09	4/5/2023 10:10	0	0.024	0.029
	4/5/2023 14:11	0	0.024	0.028
	4/5/2023 16:57	0	0.031	0.057
PCR-S-10	4/5/2023 8:09	0	0.02	0.024
	4/5/2023 11:07	0	0.022	0.025
	4/5/2023 14:39	0	0.039	0.044
PCR-S-14	4/5/2023 9:35	0	0.018	0.021
	4/5/2023 13:39	0	0.016	0.022
	4/5/2023 15:37	0	0.02	0.032
PCR-S-15	4/5/2023 9:43	0	0.037	0.042
	4/5/2023 13:41	0	0.041	0.071
	4/5/2023 15:39	0	0.018	0.025
PCR-S-16	4/5/2023 9:48	0	0.029	0.045
	4/5/2023 13:49	0	0.109	0.279
	4/5/2023 15:43	0	0.019	0.028

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Notes:

Highlighted indicate detections above screening levels  
Grey cells indicate no measurement was collected for that specific parameter  
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

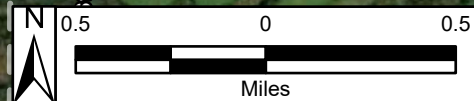
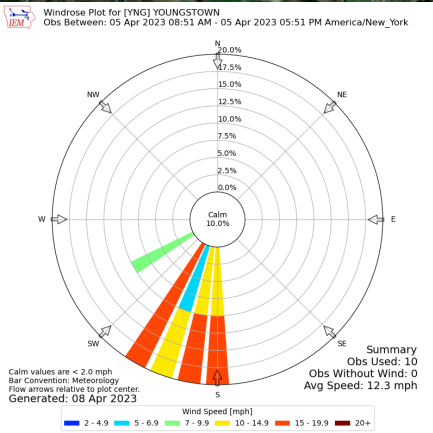
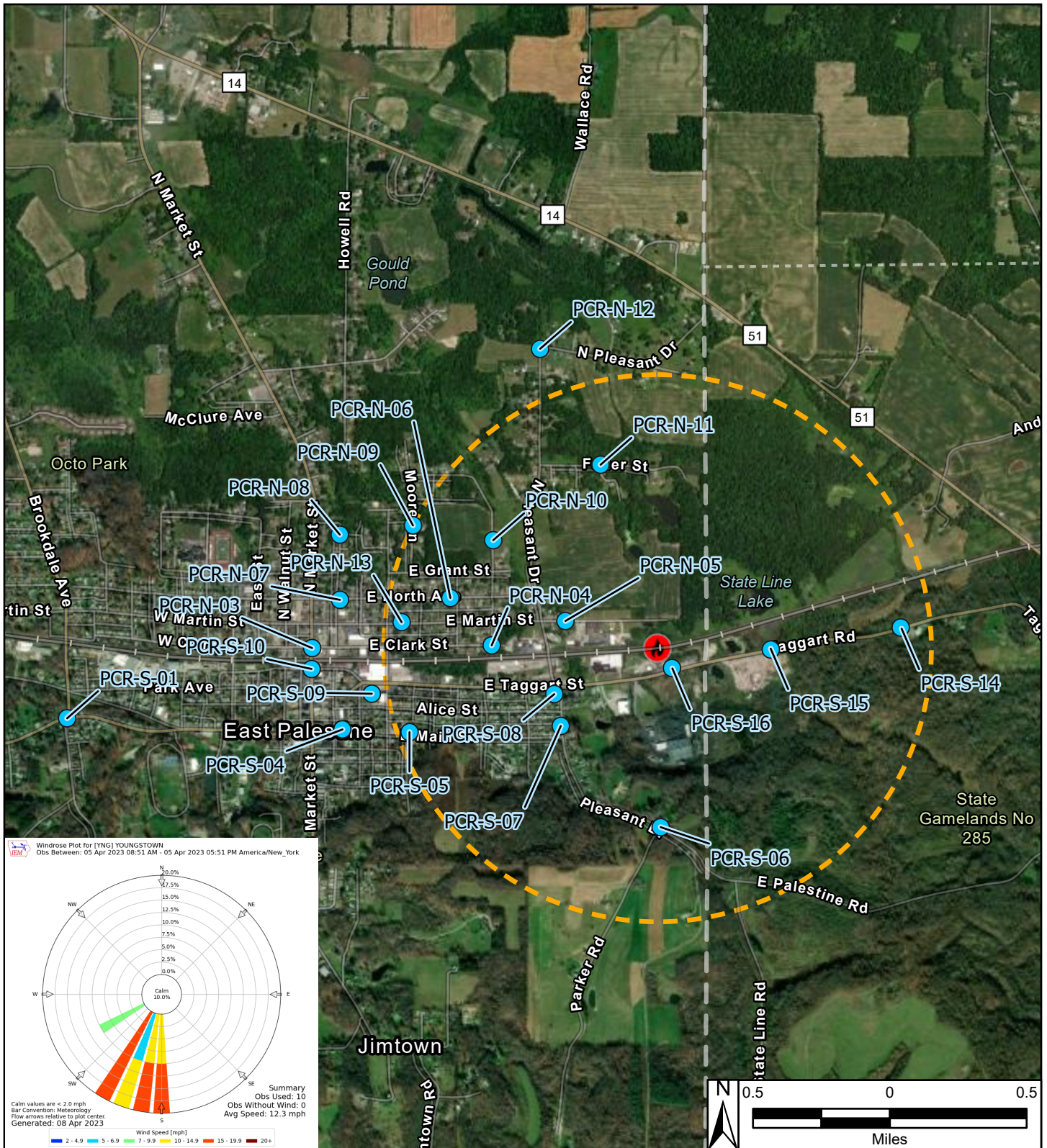
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

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

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



**Reference Map**



**Legend**

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

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.