

Table 1  
Roving Air Monitoring Results Summary Table  
East Palestine Derailment Emergency Response  
East Palestine, Ohio  
Monitoring Period: 03/08/2023 18:14 to 03/09/2023 18:02

Location	Date/Time	LEL (%)	CO (ppm)	H <sub>2</sub> S (ppm)	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>	HCN (ppm)*
		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m <sup>3</sup>	0.035 mg/m <sup>3</sup>	1 ppm
PCR-N-03	3/9/2023 8:19	0	0	0	0	0.014	0.02	0
	3/9/2023 12:58	0	0	0	0	0.006	0.006	0
	3/9/2023 16:29	0	0	0	0	0.005	0.005	0
PCR-N-04	3/9/2023 10:46	0	0	0	0	0.009	0.011	0
	3/9/2023 14:21	0	0	0	0	0.01	0.011	0
	3/9/2023 17:02	0	0	0	0	0.012	0.019	0
PCR-N-05	3/9/2023 10:53	0	0	0	0	0.008	0.011	0
	3/9/2023 14:28	0	0	0	0	0.007	0.008	0
	3/9/2023 17:06	0	0	0	0	0.005	0.008	0
PCR-N-06	3/9/2023 10:38	0	0	0	0	0.004	0.008	0
	3/9/2023 14:12	0	0	0	0	0.001	0.007	0
	3/9/2023 16:54	0	0	0	0	0.005	0.005	0
PCR-N-07	3/9/2023 8:28	0	0	0	0	0.016	0.018	0
	3/9/2023 13:01	0	0	0	0	0.007	0.008	0
	3/9/2023 16:33	0	0	0	0	0.004	0.005	0
PCR-N-08	3/9/2023 8:34	0	0	0	0	0.007	0.008	0
	3/9/2023 13:05	0	0	0	0	0.006	0.007	0
	3/9/2023 16:37	0	0	0	0	0.006	0.006	0
PCR-N-09	3/9/2023 10:20	0	0	0	0	0.006	0.006	0
	3/9/2023 13:11	0	0	0	0	0.007	0.007	0
	3/9/2023 16:44	0	0	0	0	0.004	0.004	0
PCR-N-10	3/9/2023 10:30	0	0	0	0	0.007	0.008	0
	3/9/2023 14:08	0	0	0	0	0.006	0.01	0
	3/9/2023 16:49	0	0	0	0	0.005	0.006	0
PCR-N-11	3/8/2023 18:14	0	0	0	0	0.007	0.012	0
	3/9/2023 11:05	0	0	0	0	0.007	0.012	0
	3/9/2023 14:40	0	0	0	0	0.004	0.005	0
	3/9/2023 17:18	0	0	0	0	0.006	0.014	0
PCR-N-12	3/9/2023 11:00	0	0	0	0	0.009	0.013	0
	3/9/2023 14:35	0	0	0	0	0.004	0.004	0
	3/9/2023 17:12	0	0	0	0	0.005	0.006	0

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Location	Date/Time	LEL (%)	CO (ppm)	H <sub>2</sub> S (ppm)	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>	HCN (ppm)*
		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m <sup>3</sup>	0.035 mg/m <sup>3</sup>	1 ppm
PCR-N-13	3/9/2023 10:43	0	0	0	0	0.007	0.019	0
	3/9/2023 14:17	0	0	0	0	0.009	0.015	0
	3/9/2023 16:58	0	0	0	0	0.007	0.013	0
PCR-S-01	3/9/2023 12:14	0	0	0	0	0.008	0.017	0
	3/9/2023 16:14	0	0	0	0	0.005	0.007	0
PCR-S-04	3/9/2023 12:01	0	0	0	0	0.005	0.005	0
	3/9/2023 15:50	0	0	0	0	0.004	0.005	0
PCR-S-05	3/9/2023 11:58	0	0	0	0	0.005	0.008	0
	3/9/2023 15:44	0	0	0	0	0.004	0.005	0
PCR-S-06	3/9/2023 11:46	0	0	0	0	0.005	0.006	0
	3/9/2023 15:21	0	0	0	0	0.004	0.004	0
	3/9/2023 18:02	0	0	0	0	0.01	0.015	0
PCR-S-07	3/9/2023 11:41	0	0	0	0	0.005	0.005	0
	3/9/2023 15:16	0	0	0	0	0.009	0.019	0
	3/9/2023 17:58	0	0	0	0	0.007	0.01	0
PCR-S-08	3/9/2023 11:37	0	0	0	0	0.006	0.011	0
	3/9/2023 15:11	0	0	0	0	0.01	0.018	0
	3/9/2023 17:54	0	0	0	0	0.007	0.014	0
PCR-S-09	3/9/2023 12:07	0	0	0	0	0.007	0.012	0
	3/9/2023 15:58	0	0	0	0	0.014	0.03	0
PCR-S-10	3/9/2023 8:11	0	0	0	0	0.018	0.021	0
	3/9/2023 12:49	0	0	0	0	0.006	0.01	0
	3/9/2023 16:22	0	0	0	0	0.005	0.005	0
PCR-S-14	3/9/2023 11:21	0	0	0	0	0.009	0.012	0
	3/9/2023 14:54	0	0	0	0	0.009	0.01	0
	3/9/2023 17:38	0	0	0	0	0.006	0.012	0
PCR-S-15	3/9/2023 11:29	0	0	0	0	0.006	0.009	0
	3/9/2023 14:58	0	0	0	0	0.011	0.026	0
	3/9/2023 17:44	0	0	0	0	0.009	0.016	0
PCR-S-16	3/9/2023 11:15	0	0	0	0	0.006	0.007	0
	3/9/2023 15:02	0	0	0	0	0.004	0.004	0
	3/9/2023 17:48	0	0	0	0	0.008	0.016	0

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See notes on last page.

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.

\* - the screening level is the instrument's limit of detection.

% - percent

CO - carbon monoxide

H<sub>2</sub>S - hydrogen sulfide

HCN - hydrogen cyanide

LEL - lower explosive limit

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

O<sub>2</sub> - oxygen

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

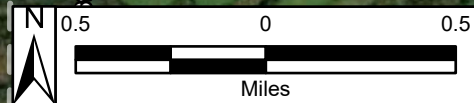
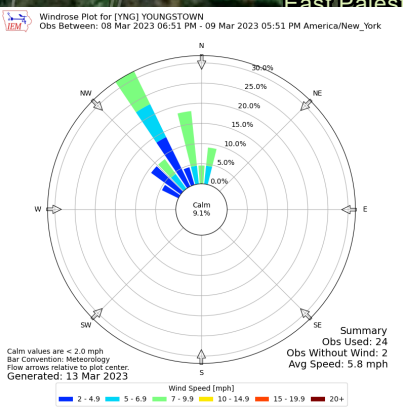
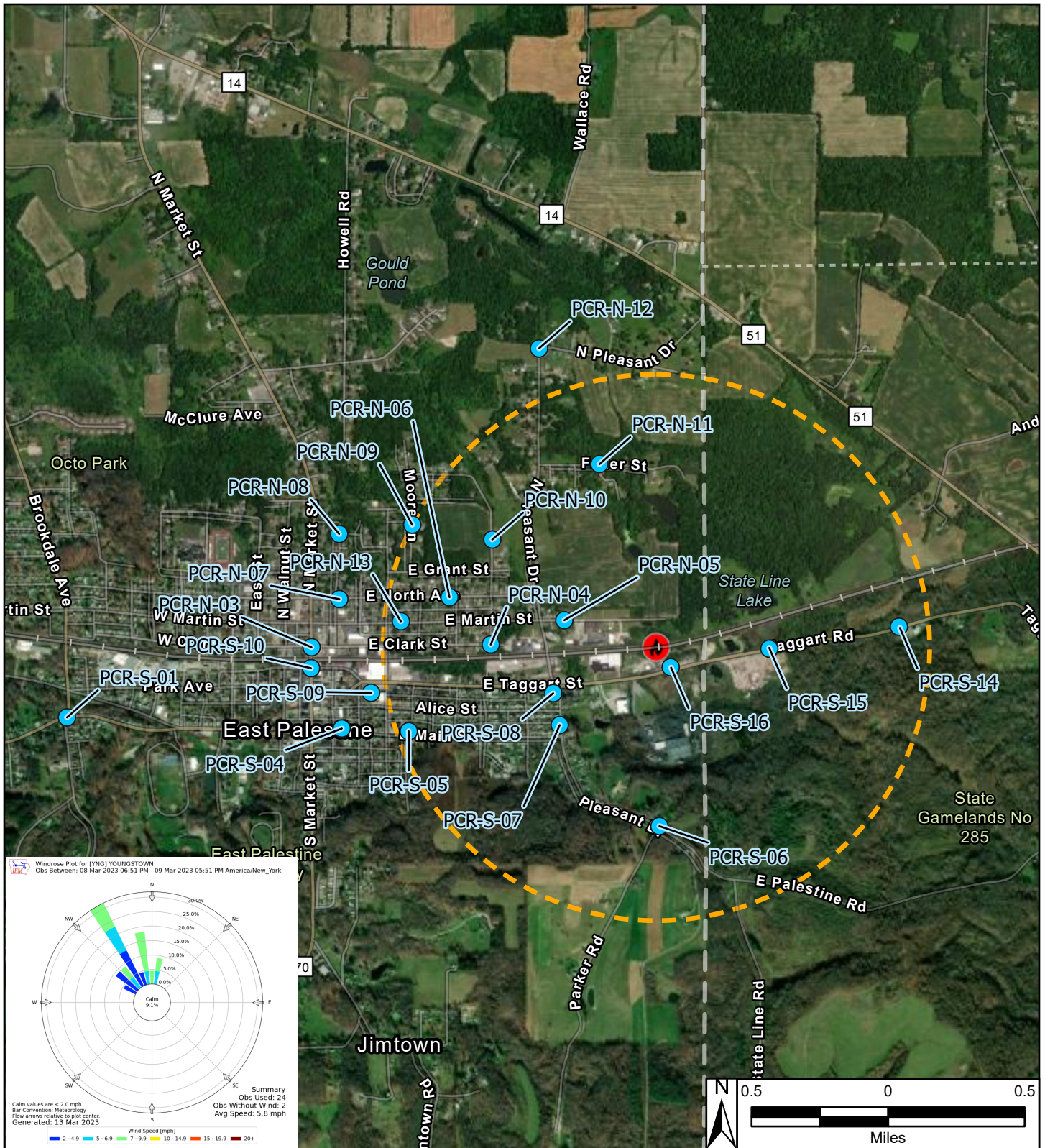
PM<sub>10</sub> - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds

We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any materials on the EPA East Palestine, Ohio emergency response webpages, please contact the Region 5 Public Information Officer on-call [r5\\_eastpalestine@epa.gov](mailto:r5_eastpalestine@epa.gov)



**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.