

Table 1  
Roving Air Monitoring Results Summary Table  
East Palestine Derailment Emergency Response  
East Palestine, Ohio  
Monitoring Period: 03/03/2023 08:17 to 03/03/2023 18:14

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	03/03/2023 08:29	0	0	0	0.01	0.028	0.031	0
	03/03/2023 12:59	0	0	0	0	0.018	0.018	0.5
	03/03/2023 16:43	0	0	0	0	0.004	0.006	
PCR-N-04	03/03/2023 09:45	0	0	0	0	0.023	0.027	0
	03/03/2023 13:40	0	0	0	0	0.019	0.02	0
	03/03/2023 18:08	0	0	0	0.01	0.005	0.006	
PCR-N-05	03/03/2023 09:56	0	0	0	0	0.024	0.025	
	03/03/2023 13:47	0	0	0	0	0.018	0.018	0
	03/03/2023 18:14	0	0	0	0.02	0.003	0.003	
PCR-N-06	03/03/2023 09:29	0	0	0	0	0.025	0.025	0
	03/03/2023 13:27	0	0	0	0	0.018	0.021	0
	03/03/2023 17:44	0	0	0	0.02	0.002	0.002	
PCR-N-07	03/03/2023 08:38	0	0	0	0.01	0.027	0.029	0
	03/03/2023 13:04	0	0	0	0	0.016	0.02	0
	03/03/2023 16:51	0	0	0	0	0.005	0.006	
PCR-N-08	03/03/2023 08:50	0	0	0	0.01	0.025	0.026	0
	03/03/2023 13:13	0	0	0	0	0.017	0.018	0
	03/03/2023 17:19	0	0	0	0	0.002	0.002	
PCR-N-09	03/03/2023 09:03	0	0	0	0.01	0.025	0.025	0
	03/03/2023 13:20	0	0	0	0	0.017	0.017	0
	03/03/2023 17:26	0	0	0	0.02	0.001	0.001	
PCR-N-10	03/03/2023 09:33	0	0	0	0	0.022	0.023	0
	03/03/2023 13:38	0	0	0	0	0.018	0.02	0
	03/03/2023 17:55	0	0	0	10	0.003	0.003	
PCR-N-11	03/03/2023 10:08	0	0	0	0	0.022	0.022	0
	03/03/2023 14:02	0	0	0	0	0.016	0.019	0
PCR-N-12	03/03/2023 10:16	0	0	0	0	0.02	0.022	0
	03/03/2023 14:12	0	0	0	0	0.018	0.021	0
PCR-N-13	03/03/2023 09:12	0	0	0	0	0.027	0.027	0
	03/03/2023 13:26	0	0	0	0	0.017	0.02	0
	03/03/2023 17:35	0	0	0	0.02	0.002	0.002	
PCR-S-01	03/03/2023 11:14	0	0	0	0	0.024	0.021	0

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		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-S-01	03/03/2023 15:03	0	0	0	0	0.014	0.019	0
PCR-S-04	03/03/2023 11:40	0	0	0	0	0.02	0.02	0
	03/03/2023 16:13	0	0	0	0	0.003	0.003	
PCR-S-05	03/03/2023 11:32	0	0	0	0	0.019	0.021	0
	03/03/2023 15:21	0	0	0		0.013	0.013	0
	03/03/2023 16:09				0			
PCR-S-06	03/03/2023 11:16	0	0	0	0	0.019	0.024	0
	03/03/2023 15:07	0	0	0	0	0.015	0.019	0
PCR-S-07	03/03/2023 11:04	0	0	0	0	0.025	0.028	0
	03/03/2023 15:13	0	0	0	0	0.013	0.013	0
PCR-S-08	03/03/2023 11:03	0	0	0	0	0.027	0.027	0
	03/03/2023 14:54	0	0	0	0	0.019	0.02	0
PCR-S-09	03/03/2023 11:46	0	0	0	0	0.017	0.019	0
	03/03/2023 16:20	0	0	0	0	0.004	0.004	
PCR-S-10	03/03/2023 08:17	0	0	0	0	0.024	0.024	0
	03/03/2023 12:41	0	0	0	0	0.02	0.021	0
	03/03/2023 16:31	0	0	0	0	0.004	0.005	
PCR-S-14	03/03/2023 10:38	0	0	0	0	0.02	0.03	0
	03/03/2023 14:28	0	0	0	0	0.02	0.02	0
PCR-S-15	03/03/2023 10:56	0	0	0	0	0.02	0.021	0
	03/03/2023 14:35	0	0	0	0	0.016	0.019	0
PCR-S-16	03/03/2023 10:34	0	0	0	0	0.022	0.027	0
	03/03/2023 14:21	0	0	0	0	0.021	0.021	0

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

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\* - 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

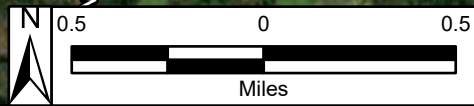
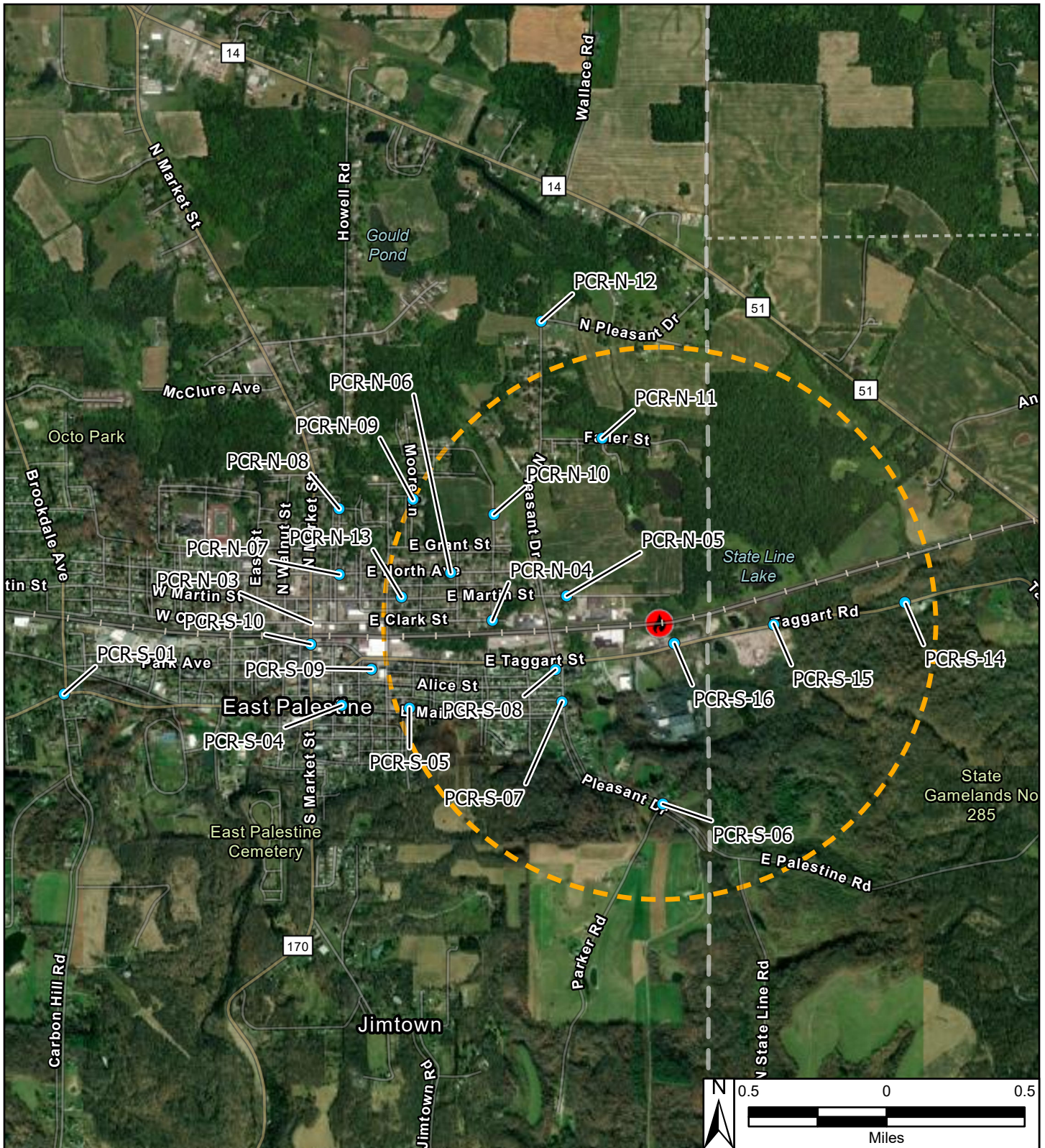
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

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

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



**Reference Map**



Site Location

**Legend**

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

East Palestine Derailment ER Site  
 75 E Main St  
 East Palestine, Columbiana County, OH 44413

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



Prepared For: EPA

Prepared By: Tetra Tech Inc.