

Table 1  
Roving Air Monitoring Results Summary Table  
East Palestine Derailment Emergency Response  
East Palestine, Ohio  
Monitoring Period: 03/04/2023 08:02 to 03/04/2023 18:41

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	3/4/2023 8:22	0	0	0	0	0.002	0.002	0
	3/4/2023 12:51	0	0	0	0	0.007	0.007	0
PCR-N-04	3/4/2023 9:38	0	0	0	0	0.005	0.005	0
	3/4/2023 13:37	0	0	0	0	0.007	0.007	0
PCR-N-05	3/4/2023 9:44	0	0	0	0	0.004	0.004	0
	3/4/2023 13:44	0	0	0	0	0.005	0.005	0
PCR-N-06	3/4/2023 9:13	0	0	0	0	0.004	0.004	0
	3/4/2023 13:16	0	0	0	0	0.007	0.007	0
PCR-N-07	3/4/2023 8:41	0	0	0	0	0.003	0.004	0
	3/4/2023 13:02	0	0	0	0	0.012	0.012	0
PCR-N-08	3/4/2023 8:50	0	0	0	0	0.003	0.004	0
	3/4/2023 13:07	0	0	0	0	0.007	0.007	0
PCR-N-09	3/4/2023 9:20	0	0	0	0	0.004	0.004	0
	3/4/2023 13:23	0	0	0	0	0.006	0.006	0
PCR-N-10	3/4/2023 9:30	0	0	0	0	0.003	0.004	0
	3/4/2023 13:30	0	0	0	0	0.007	0.007	0
PCR-N-11	3/4/2023 10:05	0	0	0	0	0.004	0.004	0
	3/4/2023 13:59	0	0	0	0	0.006	0.006	0
PCR-N-12	3/4/2023 9:55	0	0	0	0	0.005	0.005	0
	3/4/2023 13:49	0	0	0	0	0.005	0.005	0
PCR-N-13	3/4/2023 8:59	0	0	0	0	0.004	0.004	0
	3/4/2023 14:09	0	0	0	0	0.012	0.012	0
PCR-S-01	3/4/2023 11:32	0	0	0	0	0.006	0.006	0
	3/4/2023 15:03	0	0	0	0	0.008	0.008	0
PCR-S-04	3/4/2023 12:10	0	0	0	0	0.006	0.006	0
	3/4/2023 15:23	0	0	0	0	0.007	0.007	0
PCR-S-05	3/4/2023 12:05	0	0	0	0	0.006	0.006	0
	3/4/2023 15:17	0	0	0	0	0.009	0.009	0
PCR-S-06	3/4/2023 11:56	0	0	0	0	0.006	0.006	0
	3/4/2023 15:09	0	0	0	0	0.006	0.006	0
PCR-S-07	3/4/2023 10:53	0	0	0	0	0.004	0.004	0
	3/4/2023 14:56	0	0	0	0	0.006	0.006	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-08	3/4/2023 10:39	0	0	0	0	0.004	0.005	0
	3/4/2023 14:49	0	0	0	0	0.012	0.012	0
PCR-S-09	3/4/2023 12:14	0	0	0	0	0.008	0.009	0
	3/4/2023 15:27	0	0	0	0	0.008	0.008	0
PCR-S-10	3/4/2023 8:02	0	0	0	0	0.002	0.002	0
	3/4/2023 12:30	0	0	0	0	0.005	0.006	0
PCR-S-14	3/4/2023 10:22	0	0	0	0	0.004	0.005	0
	3/4/2023 14:28	0	0	0	0	0.006	0.006	0
PCR-S-15	3/4/2023 10:27	0	0	0	0	0.005	0.005	0
	3/4/2023 14:33	0	0	0	0	0.007	0.007	0
PCR-S-16	3/4/2023 10:34	0	0	0	0	0.005	0.005	0
	3/4/2023 14:41	0	0	0	0	0.01	0.01	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

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

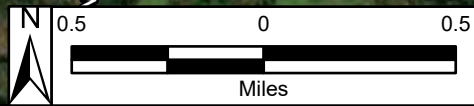
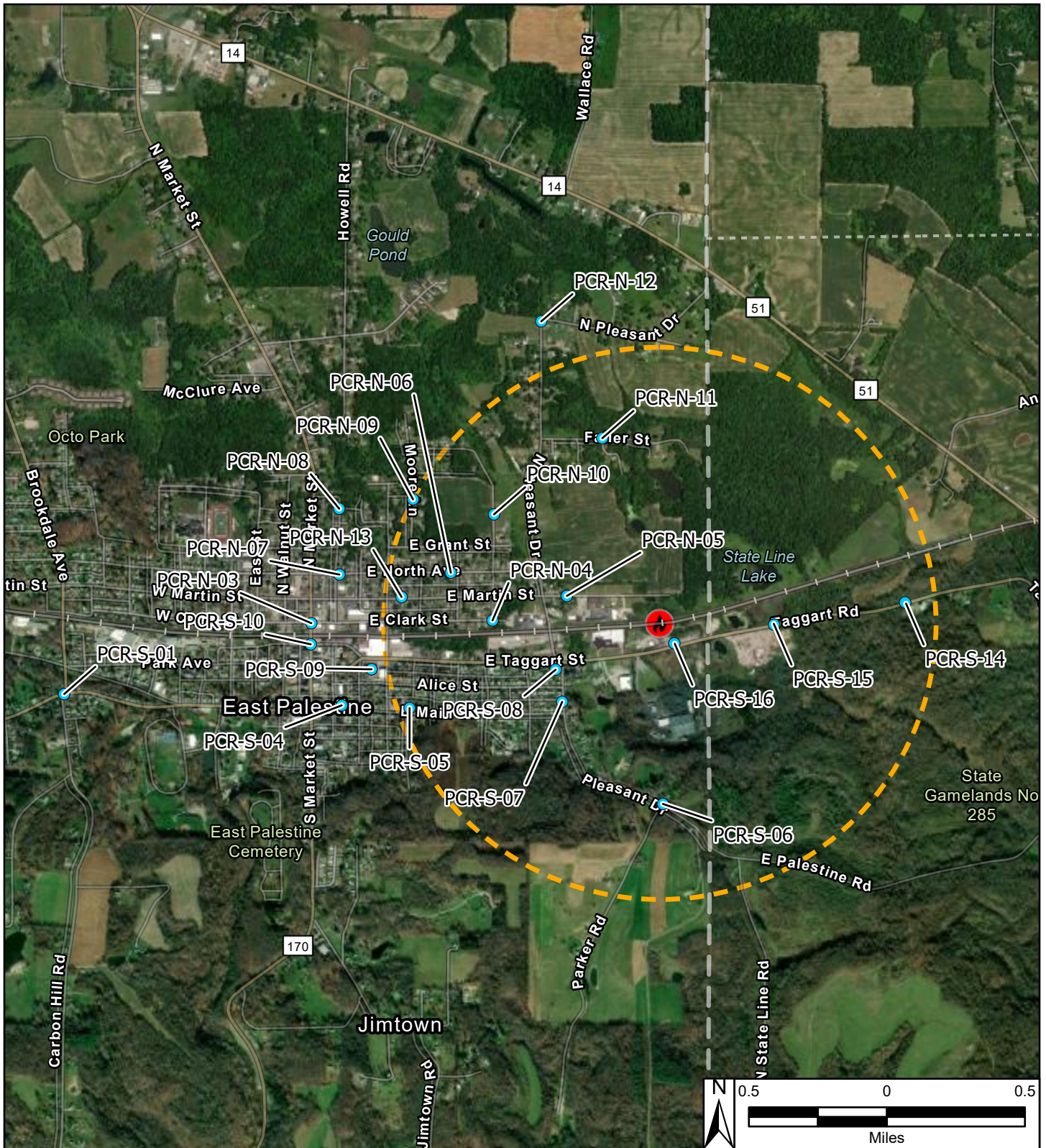
PM<sub>2.5</sub> - particles that are 2.5 micrometers and smaller

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.