

Table 1
Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 02/25/2023 13:12 to 02/26/2023 11:57

Location	Date/Time	LEL (%)	CO (ppm)	H ₂ S (ppm)	VOC (ppm)	PM _{2.5} (mg/m ³) ¹	PM ₁₀ (mg/m ³) ¹	HCN (ppm)*
		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³ (24-hour TWA)	0.035 mg/m ³ (24-hour TWA)	1 ppm
PCR-N-03	2/25/2023 13:20	0	0	0	0	0	0.005	0.005
	2/26/2023 11:29	0	0		0	0	0.023	0.023
PCR-N-04	2/25/2023 17:25	0	0		0	0	0.013	0.013
	2/26/2023 10:07	0	0		0	0	0.024	0.025
PCR-N-05	2/25/2023 14:49	0	0	0	0	0	0.009	0.012
	2/26/2023 8:16	0	0		0	0	0.033	0.033
PCR-N-06	2/25/2023 17:34	0	0		0	0	0.012	0.012
	2/26/2023 10:18	0	0		0	0	0.023	0.023
PCR-N-07	2/26/2023 11:06	0	0		0	0	0.023	0.025
PCR-N-08	2/26/2023 10:56	0	0		0	0	0.023	0.023
PCR-N-09	2/25/2023 17:58	0	0		0	0	0.009	0.01
	2/26/2023 10:43	0	0		0	0	0.022	0.023
PCR-N-10	2/25/2023 14:35	0	0	0	0	0	0.005	0.005
	2/26/2023 8:07	0	0		0	0	0.022	0.022
PCR-N-11	2/25/2023 17:05	0	0		0	0	0.01	0.01
	2/26/2023 9:42	0	0		0	0	0.025	0.026
PCR-N-12	2/25/2023 17:14	0	0		0	0	0.011	0.014
	2/26/2023 9:52	0	0		0	0	0.022	0.022
PCR-N-13	2/25/2023 17:45	0	0		0	0	0.011	0.014
	2/26/2023 10:28	0	0		0	0	0.024	0.024
PCR-S-01	2/25/2023 16:12	0	0		0	0	0.008	0.008
	2/26/2023 8:50	0	0		0	0	0.035	0.041
PCR-S-04	2/25/2023 13:31	0	0	0	0	0	0.005	0.006
	2/26/2023 11:39	0	0		0	0	0.021	0.022
PCR-S-05	2/25/2023 13:41	0	0	0	0	0	0.008	0.008
	2/26/2023 11:49	0	0		0	0	0.023	0.023
PCR-S-06	2/25/2023 16:03	0	0		0	0	0.006	0.012
	2/26/2023 8:39	0	0		0	0	0.028	0.028
PCR-S-07	2/25/2023 16:23	0	0		0	0	0.01	0.01
	2/26/2023 9:00	0	0		0	0	0.029	0.029
PCR-S-08	2/25/2023 15:02	0	0	0	0	0	0.012	0.015
	2/26/2023 8:27	0	0		0	0	0.028	0.03

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³ (24-hour TWA)	0.035 mg/m ³ (24-hour TWA)	1 ppm
PCR-S-09	2/25/2023 13:51	0	0	0	0	0	0.006	0.007
	2/26/2023 11:57	0	0		0	0	0.023	0.024
PCR-S-10	2/25/2023 13:12	0	0	0	0	0	0.005	0.005
	2/26/2023 11:13	0	0		0	0	0.023	0.025
PCR-S-14	2/25/2023 16:50	0	0		0	0	0.012	0.016
	2/26/2023 9:27	0	0		0	0	0.028	0.028
PCR-S-15	2/25/2023 16:43	0	0		0	0	0.015	0.015
	2/26/2023 9:19	0	0		0	0	0.028	0.031
PCR-S-16	2/25/2023 16:35	0	0		0	0	0.013	0.015
	2/26/2023 9:09	0	0		0	0	0.032	0.032

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

H₂S - hydrogen sulfide

HCN - hydrogen cyanide

LEL - lower explosive limit

mg/m³ - milligrams per cubic meter

O₂ - oxygen

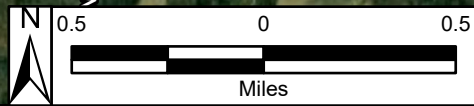
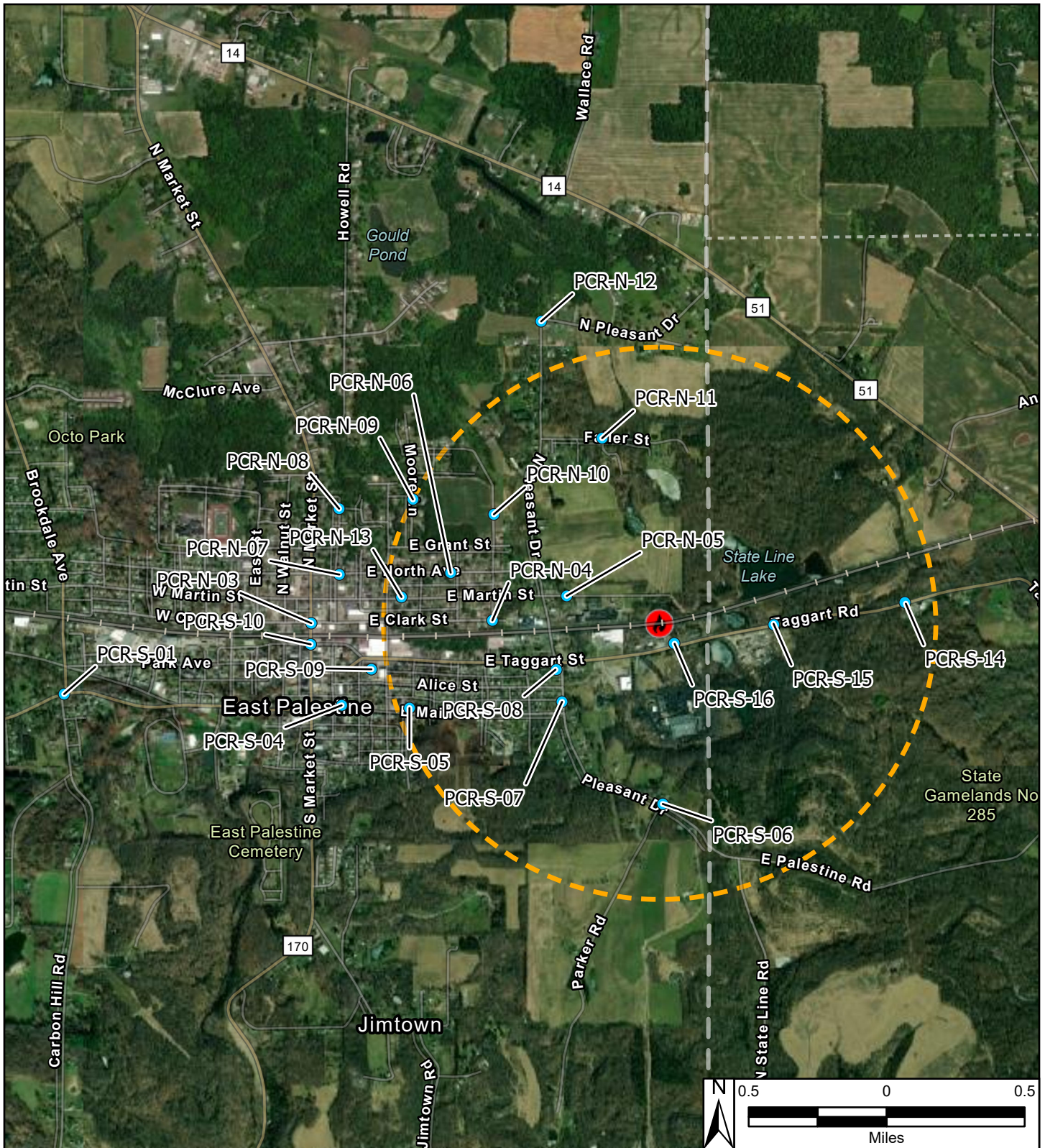
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



Reference Map



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.