

Table 1
 Community Roving Air Monitoring Results Summary Table
 East Palestine Derailment Emergency Response
 East Palestine, Ohio
 Monitoring Period: 03/21/2023 07:42 to 03/21/2023 16:10

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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
		Screening Levels					
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.070 mg/m ³
PCR-N-03	3/21/2023 7:51	0	0	0	0	0.042	0.051
	3/21/2023 11:05	0	0	0	0	0.017	0.02
	3/21/2023 14:00	0	0	0	0		0.023
PCR-N-04	3/21/2023 9:16	0	0	0	0	0.016	0.019
	3/21/2023 11:48	0	0	0	0	0.019	0.02
	3/21/2023 14:47	0	0	0	0	0.012	0.019
PCR-N-05	3/21/2023 9:27	0	0	0	0	0.014	0.016
	3/21/2023 11:52	0	0	0	0	0.015	0.019
	3/21/2023 14:50	0	0	0	0	0.012	0.016
PCR-N-06	3/21/2023 8:54	0	0	0	0	0.025	0.028
	3/21/2023 11:30	0	0	0	0	0.015	0.016
	3/21/2023 14:29	0	0	0	0	0.01	0.011
PCR-N-07	3/21/2023 7:57	0	0	0	0	0.04	0.055
	3/21/2023 11:11	0	0	0	0	0.019	0.019
	3/21/2023 14:03	0	0	0	0	0.01	0.01
PCR-N-08	3/21/2023 8:01	0	0	0	0	0.03	0.032
	3/21/2023 11:15	0	0	0	0	0.016	0.017
	3/21/2023 14:10	0	0	0	0	0.01	0.01
PCR-N-09	3/21/2023 8:06	0	0	0	0	0.03	0.032
	3/21/2023 11:21	0	0	0	0	0.017	0.018
	3/21/2023 14:15	0	0	0	0	0.009	0.01
PCR-N-10	3/21/2023 8:11	0	0	0	0	0.028	0.031
	3/21/2023 11:26	0	0	0	0	0.015	0.018
	3/21/2023 14:23	0	0	0	0	0.01	0.01

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		Screening Levels					
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.070 mg/m ³
PCR-N-11	3/21/2023 9:31	0	0	0	0	0.015	0.015
	3/21/2023 11:57	0	0	0	0	0.016	0.015
	3/21/2023 14:57	0	0	0	0	0.011	0.011
PCR-N-12	3/21/2023 9:36	0	0	0	0	0.014	0.015
	3/21/2023 12:02	0	0	0	0	0.018	0.02
	3/21/2023 15:02	0	0	0	0	0.009	0.009
PCR-N-13	3/21/2023 9:04	0	0	0	0	0.021	0.023
	3/21/2023 11:45	0	0	0	0	0.017	0.018
	3/21/2023 14:44	0	0	0	0	0.017	0.027
PCR-S-01	3/21/2023 10:18	0	0	0	0	0.015	0.017
	3/21/2023 13:09	0	0	0	0	0.011	0.011
	3/21/2023 16:10	0	0	0	0	0.006	0.008
PCR-S-04	3/21/2023 10:13	0	0	0	0	0.015	0.017
	3/21/2023 10:39	0	0	0	0	0.016	0.017
	3/21/2023 13:04	0	0	0	0	0.011	0.011
	3/21/2023 16:05	0	0	0	0	0.007	0.009
PCR-S-05	3/21/2023 10:04	0	0	0	0	0.015	0.018
	3/21/2023 12:54	0	0	0	0	0.012	0.014
	3/21/2023 15:49	0	0	0	0	0.006	0.007
PCR-S-06	3/21/2023 9:54	0	0	0	0	0.018	0.021
	3/21/2023 12:47	0	0	0	0	0.012	0.014
	3/21/2023 15:42	0	0	0	0	0.008	0.008

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		Screening Levels					
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.070 mg/m ³
PCR-S-07	3/21/2023 9:51	0	0	0	0	0.019	0.02
	3/21/2023 12:40	0	0	0	0	0.013	0.014
	3/21/2023 15:37	0	0	0	0	0.006	0.007
PCR-S-08	3/21/2023 9:41	0	0	0	0	0.015	0.015
	3/21/2023 12:06	0	0	0	0	0.015	0.016
	3/21/2023 15:08	0	0	0	0	0.008	0.009
PCR-S-09	3/21/2023 10:07	0	0	0	0	0.018	0.02
	3/21/2023 13:00	0	0	0	0	0.012	0.013
	3/21/2023 15:59	0	0	0	0	0.006	0.007
PCR-S-10	3/21/2023 7:42	0	0	0	0	0.005	0.006
	3/21/2023 13:51	0	0	0	0	0.01	0.01
PCR-S-14	3/21/2023 9:50	0	0	0	0	0.009	0.012
	3/21/2023 12:16	0	0	0	0	0.012	0.012
PCR-S-15	3/21/2023 12:32	0	0	0	0	0.015	0.015
	3/21/2023 15:26	0	0	0	0	0.008	0.008
PCR-S-16	3/21/2023 12:37	0	0	0	0	0.02	0.025
	3/21/2023 15:34	0	0	0	0	0.01	0.012

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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 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.

2 - Vehicle traffic observed while monitoring.

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

% - percent

CO - carbon monoxide

H₂S - hydrogen sulfide

LEL - lower explosive limit

mg/m³ - milligrams per cubic meter

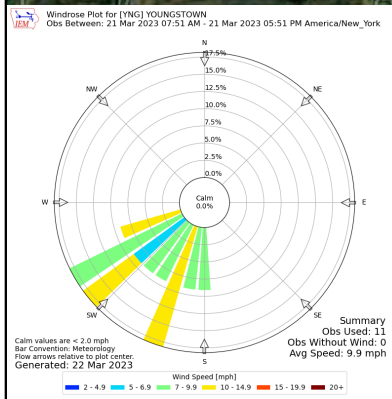
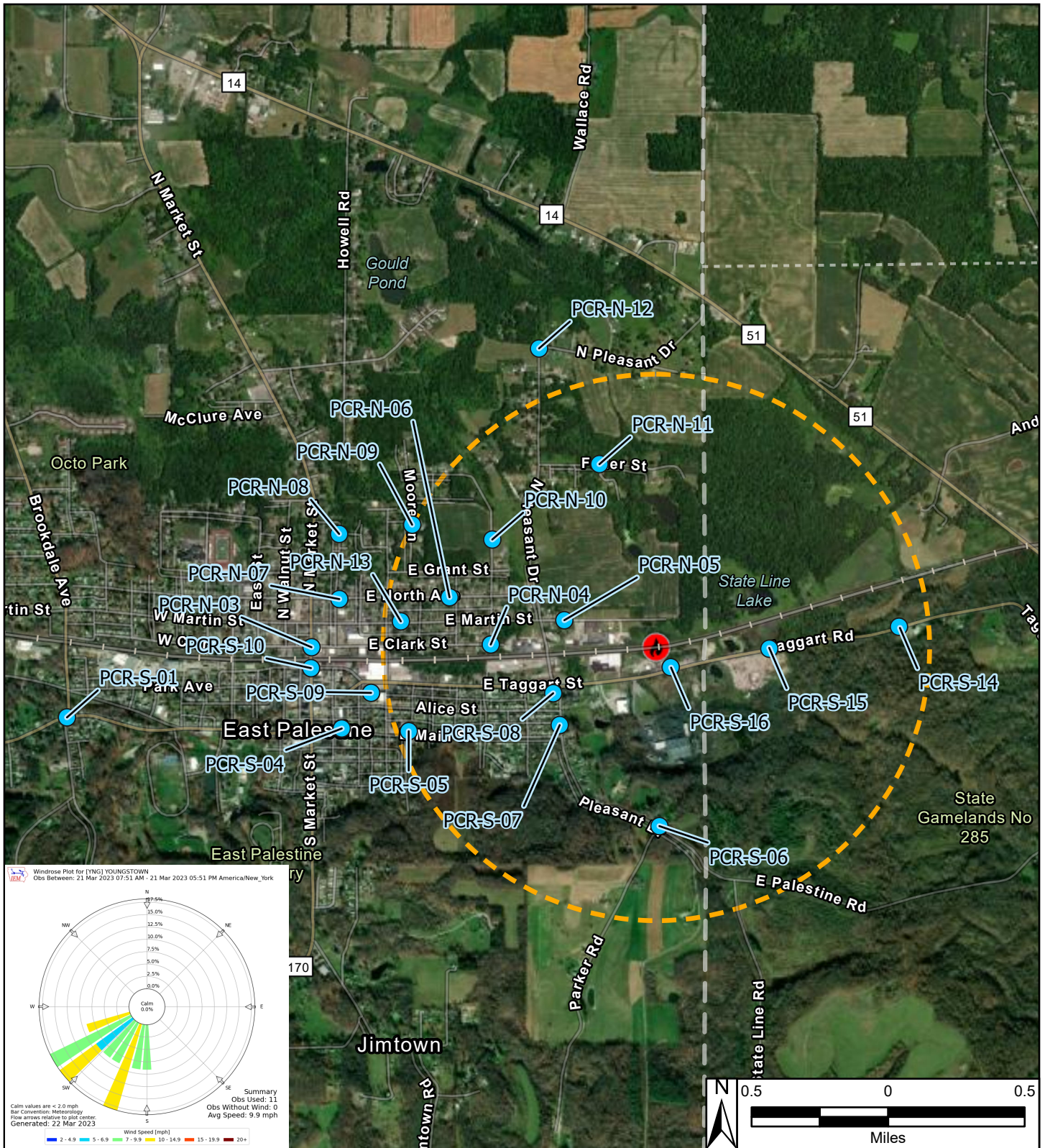
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



- 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.