

Table 1
Community Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 03/15/2023 12:26 to 03/16/2023 16:40

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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	HCN (ppm)*
		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-N-03	3/15/2023 13:36	0	0	0	0	0.008	0.011	0
	3/15/2023 16:02	0	0	0	0	0.006	0.009	0
	3/16/2023 8:07	0	0	0	0	0.03	0.033	0
	3/16/2023 11:01	0	0	0	0	0.013	0.018	0
	3/16/2023 14:58	0	0	0	0	0.006	0.012	
PCR-N-04	3/15/2023 14:11	0	0	0	0	0.009	0.011	0
	3/15/2023 16:58	0	0	0	0	0.007	0.013	0
	3/16/2023 8:46	0	0	0	0	0.043 ²	0.053 ²	0
	3/16/2023 12:23	0	0	0	0	0.011	0.016	
	3/16/2023 15:32	0	0	0	0	0.008	0.009	0
PCR-N-05	3/15/2023 14:15	0	0	0	0	0.007	0.01	0
	3/15/2023 17:05	0	0	0	0	0.015	0.016	0
	3/16/2023 8:55	0	0	0	0	0.047 ²	0.057 ²	0
	3/16/2023 12:30	0	0	0	0	0.009	0.01	
	3/16/2023 15:36	0	0	0	0	0.007	0.011	0
PCR-N-06	3/15/2023 14:02	0	0	0	0	0.004	0.005	0
	3/15/2023 16:50	0	0	0	0	0.007	0.011	0
	3/16/2023 8:38	0	0	0	0	0.022	0.033	0
	3/16/2023 12:15	0	0	0	0	0.007	0.008	
	3/16/2023 15:25	0	0	0	0	0.005	0.006	0
PCR-N-07	3/15/2023 13:40	0	0	0	0	0.004	0.004	0
	3/15/2023 16:23	0	0	0	0	0.007	0.007	0
	3/16/2023 8:12	0	0	0	0	0.029	0.039 ²	0
	3/16/2023 11:47	0	0	0	0	0.009	0.01	
PCR-N-08	3/15/2023 13:45	0	0	0	0	0.004	0.005	0
	3/15/2023 16:30	0	0	0	0	0.008	0.009	0
	3/16/2023 8:16	0	0	0	0	0.017	0.019	0
	3/16/2023 11:56	0	0	0	0	0.006	0.009	
	3/16/2023 15:05	0	0	0	0	0.006	0.007	

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-N-09	3/15/2023 13:52	0	0	0	0	0.004	0.004	0
	3/15/2023 16:35	0	0	0	0	0.006	0.006	0
	3/16/2023 8:21	0	0	0	0	0.017	0.022	0
	3/16/2023 12:03	0	0	0	0	0.007	0.007	
	3/16/2023 15:11	0	0	0	0	0.006	0.01	0
PCR-N-10	3/15/2023 13:56	0	0	0	0	0.005	0.005	0
	3/15/2023 16:43	0	0	0	0	0.006	0.008	0
	3/16/2023 8:31	0	0	0	0	0.02	0.024	0
	3/16/2023 12:10	0	0	0	0	0.007	0.009	
	3/16/2023 15:20	0	0	0	0	0.006	0.016	0
PCR-N-11	3/15/2023 15:30	0	0	0	0	0.006	0.009	0
	3/15/2023 17:17	0	0	0	0	0.014	0.022	0
	3/16/2023 9:04	0	0	0	0	0.026	0.035	0
	3/16/2023 12:41	0	0	0	0	0.008	0.01	
	3/16/2023 15:49	0	0	0	0	0.007	0.014	
PCR-N-12	3/15/2023 15:24	0	0	0	0	0.005	0.012	0
	3/15/2023 17:12	0	0	0	0	0.007	0.012	0
	3/16/2023 9:01	0	0	0	0	0.018	0.018	0
	3/16/2023 12:35	0	0	0	0	0.007	0.009	
	3/16/2023 15:43	0	0	0	0	0.005	0.006	
PCR-N-13	3/15/2023 14:06	0	0	0	0	0.006	0.013	0
	3/15/2023 16:54	0	0	0	0	0.009	0.019	0
	3/16/2023 8:42	0	0	0	0	0.029	0.033	0
	3/16/2023 12:19	0	0	0	0	0.011	0.015	
	3/16/2023 15:29	0	0	0	0	0.007	0.007	0
PCR-S-01	3/15/2023 12:37	0	0	0	0	0.007	0.008	0
	3/15/2023 14:35	0	0	0	0	0.005	0.007	0
	3/16/2023 10:42	0	0	0	0	0.009	0.01	0
	3/16/2023 13:45	0	0	0	0	0.014	0.015	

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-S-04	3/15/2023 12:28	0	0	0	0	0.009	0.01	0
	3/15/2023 14:40	0	0	0	0	0.006	0.007	0
	3/16/2023 10:32	0	0	0	0	0.021	0.026	0
	3/16/2023 13:52	0	0	0	0	0.007	0.014	
	3/16/2023 16:35	0	0	0	0	0.005	0.005	
PCR-S-05	3/15/2023 12:26	0	0	0	0	0.006	0.007	0
	3/15/2023 14:44	0	0	0	0	0.008	0.013	0
	3/16/2023 10:27	0	0	0	0	0.025	0.033	0
	3/16/2023 14:34	0	0	0	0	0.006	0.007	
	3/16/2023 16:32	0	0	0	0	0.007	0.008	
PCR-S-06	3/15/2023 14:50	0	0	0	0	0.006	0.013	0
	3/15/2023 17:49	0	0	0	0	0.01	0.02	0
	3/16/2023 10:23	0	0	0	0	0.015	0.032	0
	3/16/2023 14:28	0	0	0	0	0.008	0.019	
	3/16/2023 16:24	0	0	0	0	0.015	0.024	
PCR-S-07	3/15/2023 14:54	0	0	0	0	0.005	0.007	0
	3/15/2023 17:45	0	0	0	0	0.01	0.017	0
	3/16/2023 10:19	0	0	0	0	0.018	0.022	0
	3/16/2023 14:23	0	0	0	0	0.005	0.006	
	3/16/2023 16:19	0	0	0	0	0.007	0.012	
PCR-S-08	3/15/2023 14:57	0	0	0	0	0.015	0.032	0
	3/15/2023 17:26	0	0	0	0	0.014	0.021	0
	3/16/2023 9:16	0	8	0	0	0.018	0.022	0
	3/16/2023 14:00	0	0	0	0	0.007	0.016	
	3/16/2023 15:56	0	0	0	0	0.007	0.012	

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		Screening Levels						
		5%	9 ppm	0.1 ppm	0.5 ppm	0.035 mg/m ³	0.035 mg/m ³	1 ppm
PCR-S-09	3/15/2023 12:32	0	0	0	0	0.008	0.013	0
	3/15/2023 15:37	0	0	0	0	0.009	0.02	0
	3/15/2023 17:56	0	0	0	0	0.011	0.015	0
	3/16/2023 10:36	0	0	0	0	0.011	0.011	0
	3/16/2023 13:56	0	0	0	0	0.011	0.016	
	3/16/2023 16:40	0	0	0	0	0.007	0.015	
PCR-S-10	3/15/2023 13:27	0	0	0	0	0.004	0.005	0
	3/15/2023 15:45	0	0	0	0	0.008	0.011	0
	3/16/2023 7:58	0	0	0	0	0.023	0.026	0
	3/16/2023 10:56	0	0	0	0	0.009	0.01	0
	3/16/2023 14:52	0	0	0	0	0.004	0.013	
PCR-S-14	3/15/2023 15:05	0	0	0	0	0.005	0.005	0
	3/15/2023 17:32	0	0	0	0	0.013	0.017	0
	3/16/2023 9:22		6	0	0	0.011	0.011	
	3/16/2023 14:12	0	0	0	0	0.006	0.007	
	3/16/2023 16:14	0	0	0	0	0.007	0.008	
PCR-S-15	3/15/2023 15:09	0	0	0	0	0.004	0.004	0
	3/15/2023 17:36	0	0	0	0	0.012	0.019	0
	3/16/2023 10:08	0	0	0	0	0.022	0.049 ²	0
	3/16/2023 14:18	0	0	0	0	0.009	0.013	
	3/16/2023 16:09	0	0	0	0	0.007	0.014	
PCR-S-16	3/15/2023 15:15	0	0	0	0	0.017	0.032	0
	3/15/2023 17:40	0	0	0	0	0.011	0.017	0
	3/16/2023 10:14	0	0	0	0	0.015	0.022	0
	3/16/2023 14:06	0	0	0	0	0.009	0.016	
	3/16/2023 16:02	0	0	0	0	0.012	0.019	

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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 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.

2 - Vehicle traffic observed during monitoring period near monitoring instrument.

* - 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

ppm - Parts per million

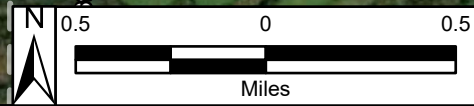
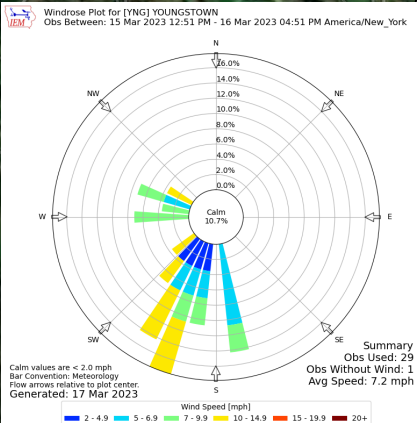
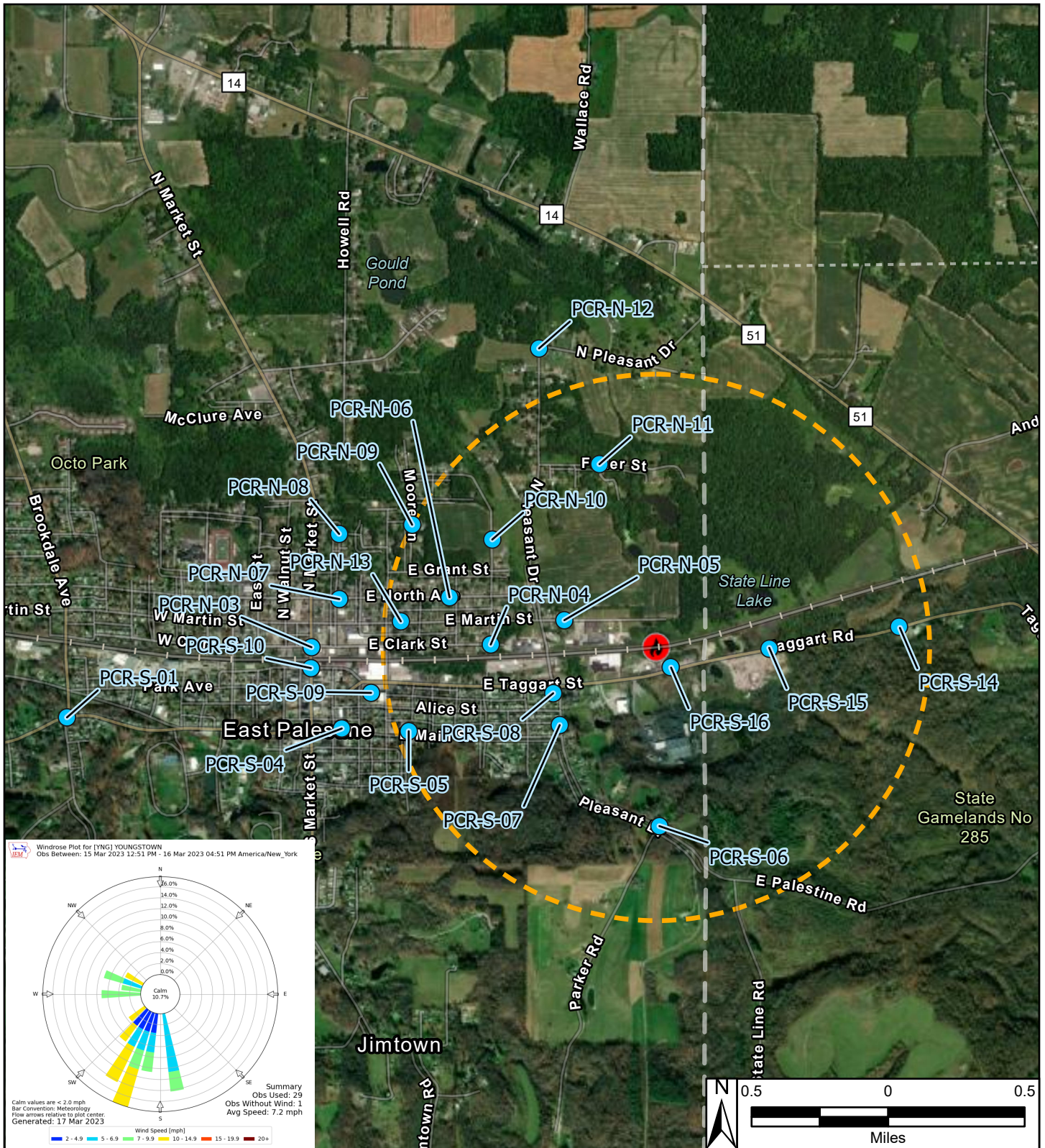
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

TWA - time-weighted average

VOC - volatile organic compounds

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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.