

Table 1
Community Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 07/23/2023 07:37 to 07/23/2023 19:58

| Location | Date/Time | VOC (ppm) | PM _{2.5} (mg/m ³) ¹ | PM ₁₀ (mg/m ³) ¹ |
|----------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-N-03 | 7/23/2023 7:52 | 0 | 0.025 | 0.027 |
| | 7/23/2023 9:37 | 0 | 0.019 | 0.02 |
| | 7/23/2023 13:42 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:18 | 0 | 0.014 | 0.014 |
| PCR-N-04 | 7/23/2023 8:23 | 0 | 0.023 | 0.025 |
| | 7/23/2023 10:01 | 0 | 0.017 | 0.018 |
| | 7/23/2023 14:10 | 0 | 0.018 | 0.018 |
| | 7/23/2023 15:43 | 0 | 0.017 | 0.017 |
| PCR-N-05 | 7/23/2023 8:26 | 0 | 0.055 | 0.142 |
| | 7/23/2023 10:04 | 0 | 0.021 | 0.026 |
| | 7/23/2023 14:13 | 0 | 0.018 | 0.02 |
| | 7/23/2023 15:48 | 0 | 0.031 | 0.052 |
| | 7/23/2023 16:35 | 0 | 0.015 | 0.016 |
| PCR-N-06 | 7/23/2023 8:15 | 0 | 0.025 | 0.027 |
| | 7/23/2023 9:54 | 0 | 0.017 | 0.017 |
| | 7/23/2023 10:39 | 0 | 0.017 | 0.018 |
| | 7/23/2023 14:03 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:36 | 0 | 0.014 | 0.014 |
| PCR-N-07 | 7/23/2023 9:40 | 0 | 0.018 | 0.018 |
| | 7/23/2023 13:45 | 0 | 0.017 | 0.019 |
| | 7/23/2023 15:21 | 0 | 0.016 | 0.016 |
| | 7/23/2023 19:58 | 0 | 0.026 | 0.029 |
| PCR-N-08 | 7/23/2023 8:00 | 0 | 0.026 | 0.028 |
| | 7/23/2023 9:42 | 0 | 0.017 | 0.018 |
| | 7/23/2023 13:48 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:24 | 0 | 0.016 | 0.016 |
| PCR-N-09 | 7/23/2023 8:05 | 0 | 0.026 | 0.03 |
| | 7/23/2023 9:47 | 0 | 0.017 | 0.018 |
| | 7/23/2023 10:47 | 0 | 0.017 | 0.018 |
| | 7/23/2023 13:55 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:29 | 0 | 0.015 | 0.016 |
| PCR-N-10 | 7/23/2023 8:10 | 0 | 0.025 | 0.027 |
| | 7/23/2023 9:51 | 0 | 0.017 | 0.018 |
| | 7/23/2023 14:00 | 0 | 0.018 | 0.018 |
| PCR-N-11 | 7/23/2023 8:32 | 0 | 0.025 | 0.03 |
| | 7/23/2023 10:09 | 0 | 0.019 | 0.023 |
| | 7/23/2023 14:18 | 0 | 0.018 | 0.021 |
| | 7/23/2023 15:54 | 0 | 0.016 | 0.018 |

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|----------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-N-12 | 7/23/2023 8:38 | 0 | 0.025 | 0.028 |
| | 7/23/2023 10:13 | 0 | 0.018 | 0.021 |
| | 7/23/2023 14:22 | 0 | 0.017 | 0.018 |
| | 7/23/2023 16:01 | 0 | 0.015 | 0.016 |
| PCR-N-13 | 7/23/2023 8:20 | 0 | 0.022 | 0.023 |
| | 7/23/2023 9:57 | 0 | 0.018 | 0.019 |
| | 7/23/2023 14:06 | 0 | 0.018 | 0.018 |
| | 7/23/2023 15:39 | 0 | 0.014 | 0.015 |
| PCR-S-01 | 7/23/2023 9:30 | 0 | 0.019 | 0.02 |
| | 7/23/2023 10:55 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:09 | 0 | 0.015 | 0.016 |
| | 7/23/2023 16:47 | 0 | 0.014 | 0.015 |
| PCR-S-04 | 7/23/2023 9:24 | 0 | 0.02 | 0.022 |
| | 7/23/2023 10:50 | 0 | 0.017 | 0.017 |
| | 7/23/2023 15:05 | 0 | 0.016 | 0.017 |
| | 7/23/2023 16:41 | 0 | 0.015 | 0.015 |
| PCR-S-05 | 7/23/2023 9:17 | 0 | 0.02 | 0.021 |
| | 7/23/2023 10:44 | 0 | 0.018 | 0.018 |
| | 7/23/2023 14:58 | 0 | 0.016 | 0.017 |
| PCR-S-06 | 7/23/2023 9:13 | 0 | 0.021 | 0.024 |
| | 7/23/2023 14:54 | 0 | 0.016 | 0.016 |
| | 7/23/2023 16:31 | 0 | 0.014 | 0.015 |
| PCR-S-07 | 7/23/2023 9:10 | 0 | 0.023 | 0.026 |
| | 7/23/2023 10:36 | 0 | 0.018 | 0.019 |
| | 7/23/2023 14:50 | 0 | 0.016 | 0.016 |
| | 7/23/2023 16:28 | 0 | 0.015 | 0.016 |
| PCR-S-08 | 7/23/2023 8:48 | 0 | 0.042 | 0.067 |
| | 7/23/2023 10:20 | 0 | 0.02 | 0.024 |
| | 7/23/2023 14:30 | 0 | 0.019 | 0.024 |
| | 7/23/2023 16:10 | 0 | 0.016 | 0.017 |
| PCR-S-09 | 7/23/2023 9:20 | 0 | 0.021 | 0.022 |
| | 7/23/2023 15:02 | 0 | 0.014 | 0.015 |
| | 7/23/2023 16:38 | 0 | 0.015 | 0.015 |
| PCR-S-10 | 7/23/2023 7:37 | 0 | 0.025 | 0.028 |
| | 7/23/2023 9:34 | 0 | 0.018 | 0.019 |
| | 7/23/2023 13:37 | 0 | 0.017 | 0.018 |
| | 7/23/2023 15:15 | 0 | 0.015 | 0.015 |
| | 7/23/2023 15:33 | 0 | 0.013 | 0.014 |

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| Location | Date/Time | VOC (ppm) | PM _{2.5} (mg/m ³) ¹ | PM ₁₀ (mg/m ³) ¹ |
|----------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-S-14 | 7/23/2023 8:55 | 0 | 0.021 | 0.022 |
| | 7/23/2023 10:26 | 0 | 0.021 | 0.025 |
| | 7/23/2023 14:38 | 0 | 0.016 | 0.018 |
| | 7/23/2023 16:16 | 0 | 0.016 | 0.016 |
| PCR-S-15 | 7/23/2023 9:00 | 0 | 0.021 | 0.023 |
| | 7/23/2023 10:29 | 0 | 0.017 | 0.017 |
| | 7/23/2023 14:41 | 0 | 0.015 | 0.016 |
| | 7/23/2023 16:18 | 0 | 0.018 | 0.025 |
| PCR-S-16 | 7/23/2023 9:03 | 0 | 0.022 | 0.025 |
| | 7/23/2023 10:32 | 0 | 0.018 | 0.019 |
| | 7/23/2023 14:45 | 0 | 0.055 | 0.111 |
| | 7/23/2023 16:22 | 0 | 0.016 | 0.016 |

Notes:

Highlighted indicate detections above screening levels

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. 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.

mg/m³ - milligrams per cubic meter

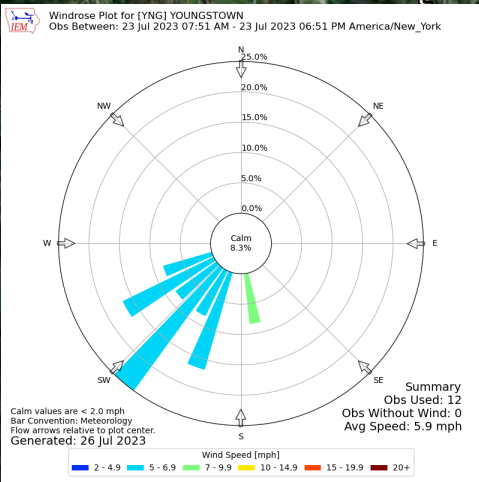
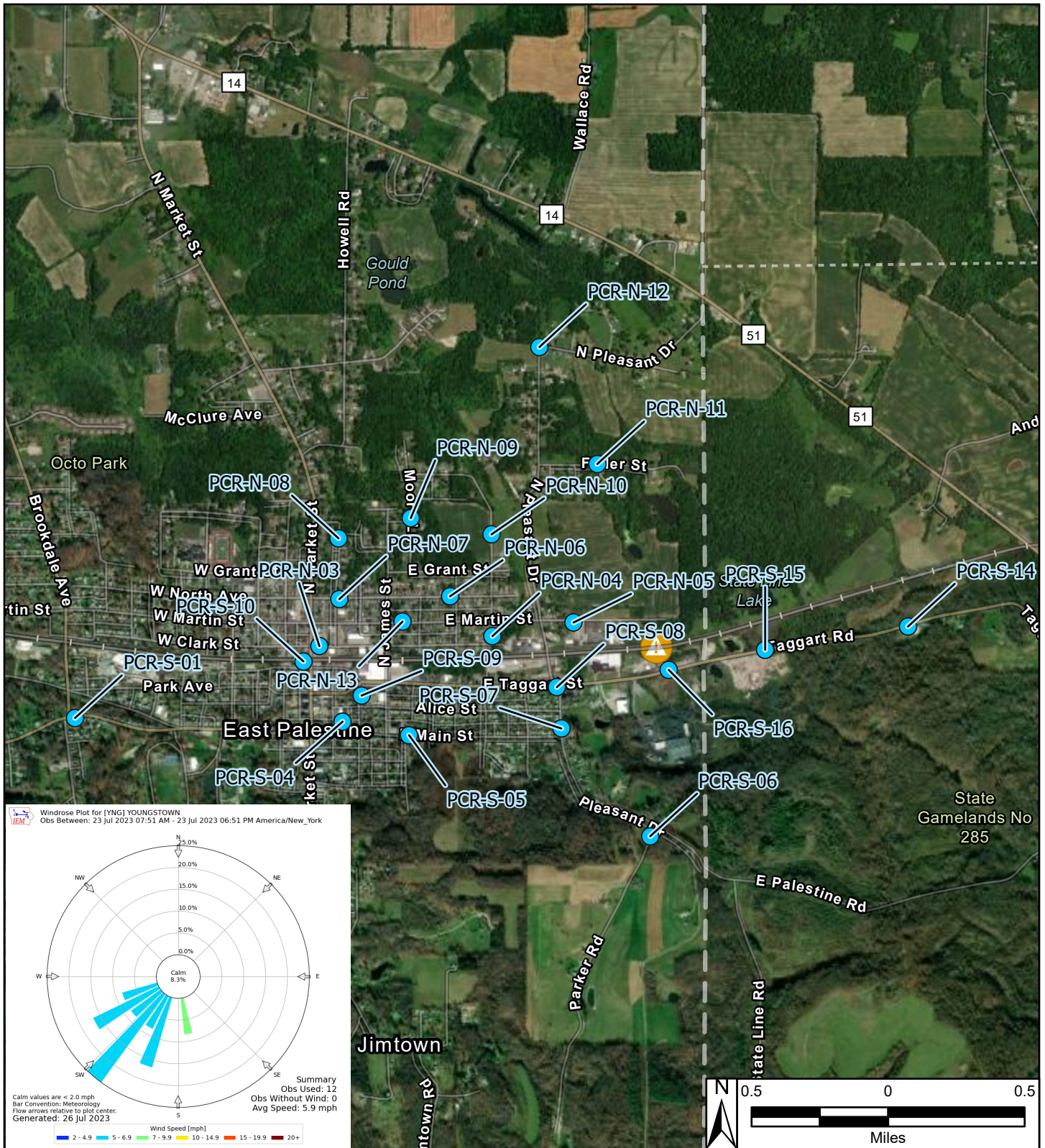
PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

TWA - time-weighted average

VOC - volatile organic compounds



Legend

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

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.