

Table 1
Community Roving Air Monitoring Results Summary Table
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 05/10/2023 08:28 to 05/10/2023 16:46

| 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 | 5/10/2023 8:41 | 0 | 0.02 | 0.037 |
| | 5/10/2023 14:27 | 0 | 0.007 | 0.011 |
| PCR-N-04 | 5/10/2023 9:29 | 0 | 0.011 | 0.021 |
| | 5/10/2023 15:33 | 0 | 0.019 | 0.04 |
| PCR-N-05 | 5/10/2023 9:46 | 0 | 0.007 | 0.011 |
| | 5/10/2023 15:40 | 0.01 | 0.011 | 0.021 |
| PCR-N-06 | 5/10/2023 9:18 | 0 | 0.009 | 0.017 |
| | 5/10/2023 15:14 | 0 | 0.008 | 0.013 |
| PCR-N-07 | 5/10/2023 8:47 | 0 | 0.009 | 0.014 |
| | 5/10/2023 14:31 | 0 | 0.006 | 0.009 |
| PCR-N-08 | 5/10/2023 8:53 | 0 | 0.007 | 0.012 |
| | 5/10/2023 14:36 | 0 | 0.01 | 0.015 |
| PCR-N-09 | 5/10/2023 9:00 | 0 | 0.007 | 0.009 |
| | 5/10/2023 14:51 | 0 | 0.006 | 0.009 |
| PCR-N-10 | 5/10/2023 9:07 | 0 | 0.008 | 0.012 |
| | 5/10/2023 15:00 | 0 | 0.006 | 0.01 |
| PCR-N-11 | 5/10/2023 9:56 | 0 | 0.032 | 0.035 |
| | 5/10/2023 15:48 | 0 | 0.01 | 0.014 |
| PCR-N-12 | 5/10/2023 10:05 | 0 | 0.009 | 0.018 |
| | 5/10/2023 15:56 | 0 | 0.011 | 0.02 |
| PCR-N-13 | 5/10/2023 9:22 | 0 | 0.007 | 0.01 |
| | 5/10/2023 15:20 | 0 | 0.01 | 0.017 |
| PCR-S-01 | 5/10/2023 14:12 | 0 | 0.005 | 0.008 |
| PCR-S-04 | 5/10/2023 14:03 | 0 | 0.005 | 0.007 |
| PCR-S-05 | 5/10/2023 13:50 | 0 | 0.007 | 0.012 |
| PCR-S-05 | 5/10/2023 16:46 | 0 | | |
| PCR-S-06 | 5/10/2023 11:45 | 0.14 | 0.004 | 0.008 |
| | 5/10/2023 16:39 | 0 | 0.01 | 0.013 |
| PCR-S-07 | 5/10/2023 11:36 | 0.11 | 0.009 | 0.019 |
| | 5/10/2023 16:34 | 0 | 0.015 | 0.027 |
| PCR-S-08 | 5/10/2023 10:17 | 0 | 0.007 | 0.014 |
| | 5/10/2023 16:06 | 0 | 0.009 | 0.012 |
| PCR-S-09 | 5/10/2023 13:57 | 0 | 0.01 | 0.015 |
| PCR-S-10 | 5/10/2023 8:28 | 0 | 0.024 | 0.048 |
| PCR-S-10 | 5/10/2023 14:20 | 0 | 0.008 | 0.015 |
| PCR-S-14 | 5/10/2023 11:05 | 0 | 0.006 | 0.011 |
| PCR-S-14 | 5/10/2023 16:21 | 0 | 0.011 | 0.016 |

We are in the process of ensuring this document is accessible to all audiences. If you need assistance accessing this document, or any materials on the EPA East Palestine, Ohio emergency response webpages, please contact the Region 5 Public Information Officer on-call r5_eastpalestine@epa.gov

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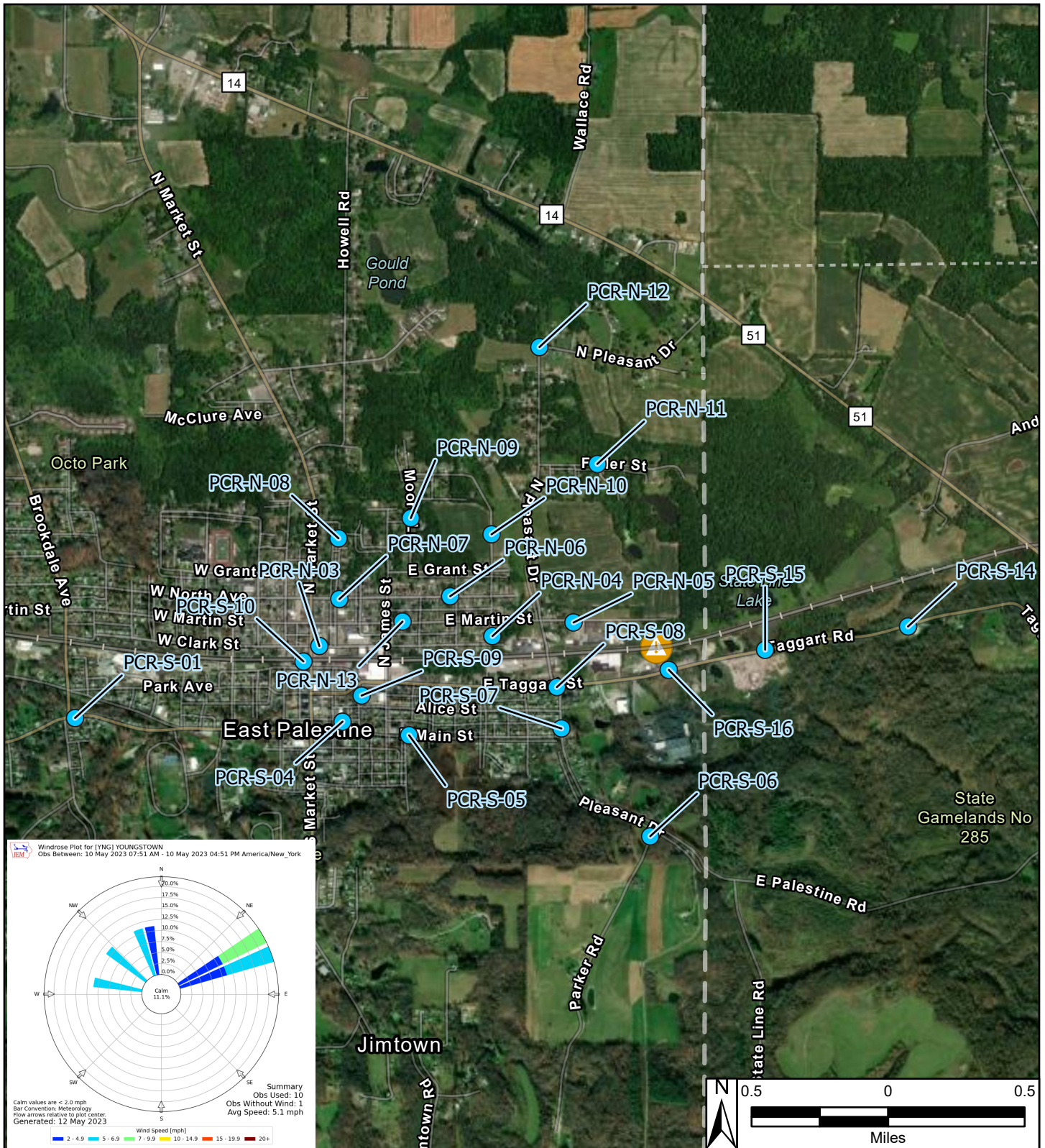
| Location | Date/Time | VOC (ppm) | PM _{2.5} (mg/m ³) ¹ | PM ₁₀ (mg/m ³) ¹ |
|----------|-----------------|------------------|---|--|
| | | Screening Levels | | |
| | | 0.5 ppm | 0.035 mg/m ³ | 0.070 mg/m ³ |
| PCR-S-15 | 5/10/2023 11:15 | 0 | 0.006 | 0.015 |
| PCR-S-15 | 5/10/2023 16:24 | 0 | 0.009 | 0.013 |
| PCR-S-16 | 5/10/2023 11:21 | 0.06 | 0.007 | 0.014 |
| PCR-S-16 | 5/10/2023 16:29 | 0 | 0.011 | 0.018 |

Notes:

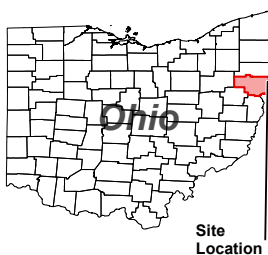
- Highlighted indicate detections above screening levels
 - Grey cells indicate no measurement was collected for that specific parameter
- 1 - Site-Specific Public Health Screening Levels for particulate matter are based on 24-hour time-weighted averages (TWAs). Fixed discrete monitoring readings are discrete readings, and so do not represent conditions over a full 24-hour period. 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

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Reference Map



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.