

Table 1
Work Area Continuous Air Monitoring Results
East Palestine Derailment Site
East Palestine, Columbiana County, Ohio

Monitoring Period: 04/11/2023 00:00 through 04/12/2023 10:42

Air Monitoring Instrument: Serial Number	Analyte	Screening Level ¹	Screening Level Exceeded?	8-hour Period Concentration Range	Average of All 8-hour Periods
8533153005	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	Yes ²	0.019 to 0.037	0.025
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.025 to 0.041	0.030
8533183902	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	Yes ²	0.023 to 0.037	0.030
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.024 to 0.041	0.032
8533213308	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	Yes ²	0.018 to 0.038	0.029
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.021 to 0.040	0.034
8533230602	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	Yes ²	0.029 to 0.051	0.038
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	Yes ²	0.047 to 0.091	0.061
8533230604	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	Yes ²	0.018 to 0.041	0.028
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	Yes ²	0.025 to 0.080	0.046
W01A00000610	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00000612	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00002178	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
W01A00002184	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01B00002178	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01B00002207	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00

Notes:

¹ Site-Specific Screening Levels stated in the Tetra Tech Air Monitoring and Sampling Plan. 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 during monitoring period near monitoring instrument.

Air monitoring measurements have been averaged over a 8-hour time period and summarized above.

Air monitoring is not performed during inclement weather conditions/rain and thunderstorms.

Abbreviations:

> - Greater than

% - Percent

LEL - Lower Explosive Limit

mg/m³ - milligrams per meter cubed

PM_{2.5} - Particulate Matter, diameter 2.5 micrometers and smaller

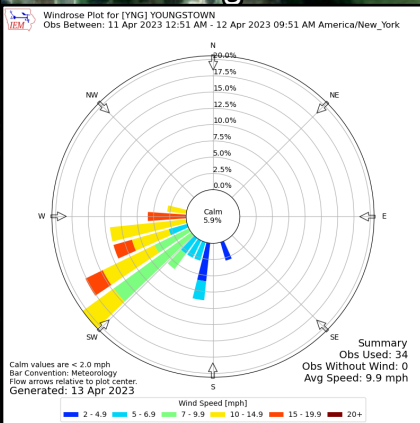
PM₁₀ - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

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



Reference Map



Legend

- Continuous Air Monitoring Locations with DustTrak
- Continuous Air Monitoring Locations
- 🔥 Derailment Location
- ⏏ One Mile Radius

East Palestine Derailment ER Site
 East Palestine, Columbiana County, OH 44413

Figure 1
Continuous Air Monitoring Work Area Stations



Prepared For: EPA

Prepared By: Tetra Tech Inc.