

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

Monitoring Period: 05/27/2023 00:00 through 05/28/2023 10:23

Air Monitoring Instrument: Serial Number	Analyte	Screening Level ¹	Screening Level Exceeded?	8-hour Period Concentration Range	Average of All 8-hour Periods
8533183902	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	No	0.002 to 0.005	0.003
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.002 to 0.005	0.004
8533153004	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	No	0.001 to 0.01	0.005
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.003 to 0.012	0.006
8533213308	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	No	0.008 to 0.017	0.011
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.01 to 0.02	0.014
8533230604	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	No	0.008 to 0.026	0.015
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.015 to 0.029	0.02
8533230602	PM _{2.5} (mg/m ³)	0.035 (mg/m ³)	No	0.009 to 0.029	0.018
	PM ₁₀ (mg/m ³)	0.070 (mg/m ³)	No	0.019 to 0.045	0.032
W01A00000610	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.01	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00000611	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 0.06	0.02
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 Quality Assurance Project 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.

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

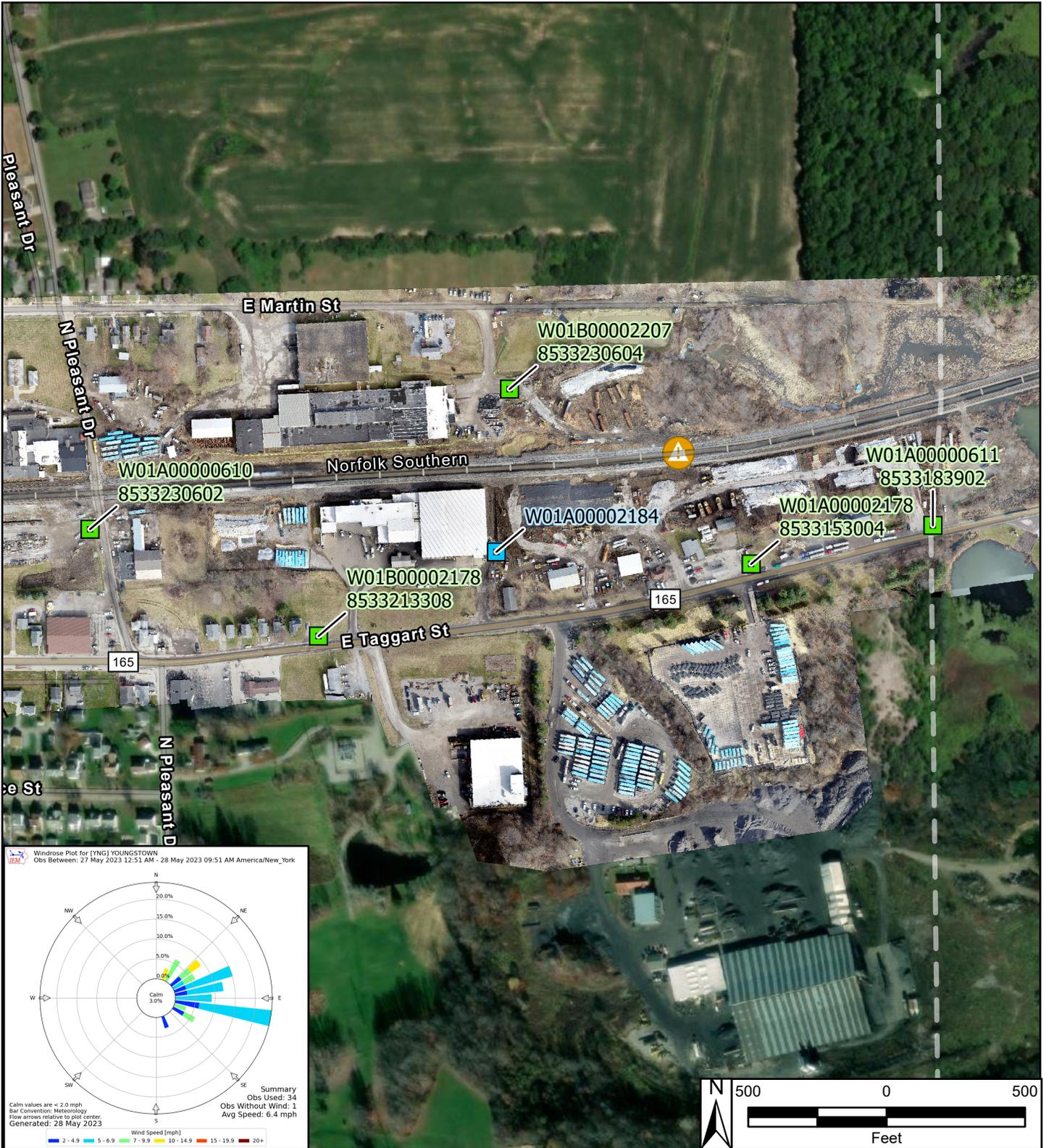
LEL - Lower Explosive Limit

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.