

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

**Monitoring Period: 05/31/2023 00:00 through 06/01/2023 11:44**

Air Monitoring Instrument: Serial Number	Analyte	Screening Level <sup>1</sup>	Screening Level Exceeded?	8-hour Period Concentration Range	Average of All 8-hour Periods
8533230702	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.023 to 0.040	0.031
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.025 to 0.044	0.033
8533183117	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.025 to 0.044	0.032
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.032 to 0.058	0.041
8533153004	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	No	0.003 to 0.012	0.008
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.009 to 0.016	0.013
8533213308	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.022 to 0.036	0.028
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.030 to 0.046	0.035
8533230602	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.033 to 0.048	0.041
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.056 to 0.089	0.072
8533183902	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	No	0.004 to 0.008	0.006
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.004 to 0.008	0.006
8533230604	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.035 (mg/m <sup>3</sup> )	Yes <sup>2</sup>	0.005 to 0.042	0.022
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.070 (mg/m <sup>3</sup> )	No	0.013 to 0.047	0.030
W01A00000609	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00000611	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.28	0.06
	LEL (%)	>5%	No	0.00 to 0.00	0.00
W01A00002176	VOC (ppm)	0.5 (ppm)	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 0.10	0.03
W01B00002178	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.02	0.00
	LEL (%)	>5%	No	0.00 to 0.60	0.11
W01B00002207	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.75	0.26
W01B00002209	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
	LEL (%)	>5%	No	0.00 to 0.09	0.01

**Notes:**

<sup>1</sup> 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.

<sup>2</sup> 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/m<sup>3</sup> - milligrams per meter cubed

PM<sub>2.5</sub> - Particulate Matter, diameter 2.5 micrometers and smaller

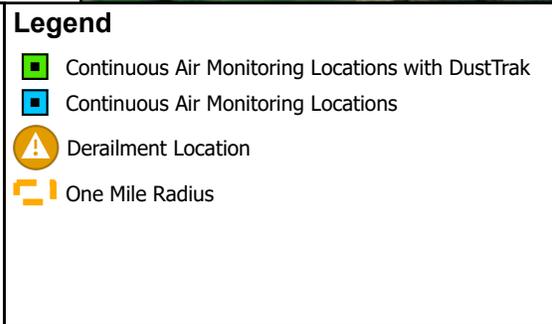
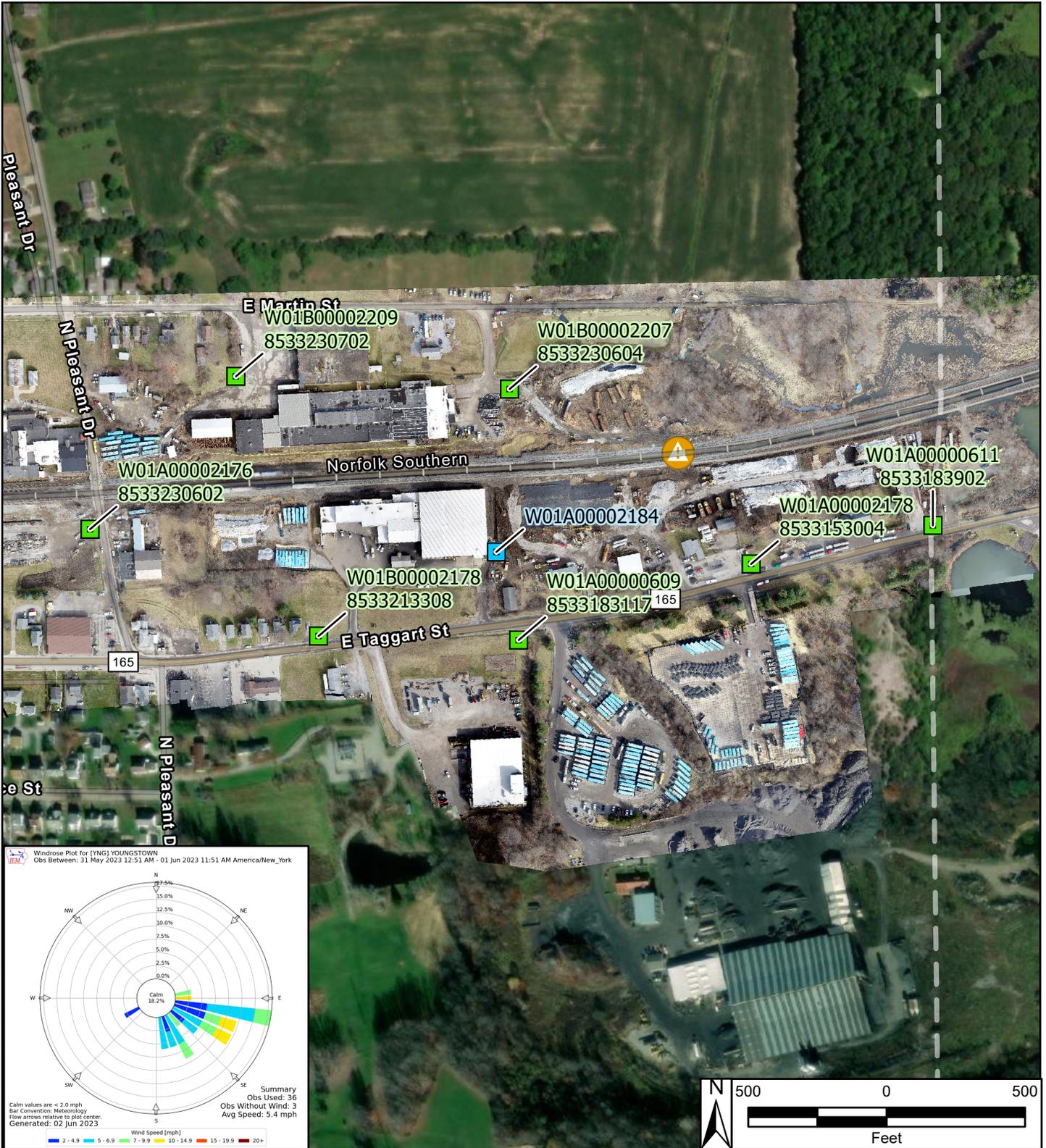
PM<sub>10</sub> - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

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

**Figure 1**  
**Continuous Air Monitoring**  
**Work Area Stations**

**TETRA TECH**

Prepared For: EPA      Prepared By: Tetra Tech Inc.