

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

**Monitoring Period: 05/13/2023 00:00 through 05/14/2023 11:25**

| Air Monitoring Instrument:<br>Serial Number | Analyte                                | Screening Level <sup>1</sup> | Screening Level Exceeded? | 8-hour Period Concentration Range | Average of All 8-hour Periods |
|---|--|------------------------------|---------------------------|-----------------------------------|-------------------------------|
| 8533230504                                  | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.035 (mg/m <sup>3</sup> )   | Yes <sup>2</sup>          | 0.022 to 0.054                    | 0.034                         |
|   | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.070 (mg/m <sup>3</sup> )   | No                        | 0.024 to 0.059                    | 0.038                         |
| 8533230503                                  | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.035 (mg/m <sup>3</sup> )   | Yes <sup>2</sup>          | 0.022 to 0.039                    | 0.027                         |
|   | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.070 (mg/m <sup>3</sup> )   | No                        | 0.026 to 0.043                    | 0.031                         |
| 8533230702                                  | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.035 (mg/m <sup>3</sup> )   | No                        | 0.022 to 0.035                    | 0.025                         |
|   | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.070 (mg/m <sup>3</sup> )   | No                        | 0.023 to 0.036                    | 0.026                         |
| W01A00000609                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01A00002175                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01A00002181                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01A00002182                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002162                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002164                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002170                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002172                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002181                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002183                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002206                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002208                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002209                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002220                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002221                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002222                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |
| W01B00002223                                | VOC (ppm)                              | 0.5 (ppm)                    | No                        | 0.00 to 0.00                      | 0.00                          |

**Notes:**

<sup>1</sup> 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.

<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:**

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

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

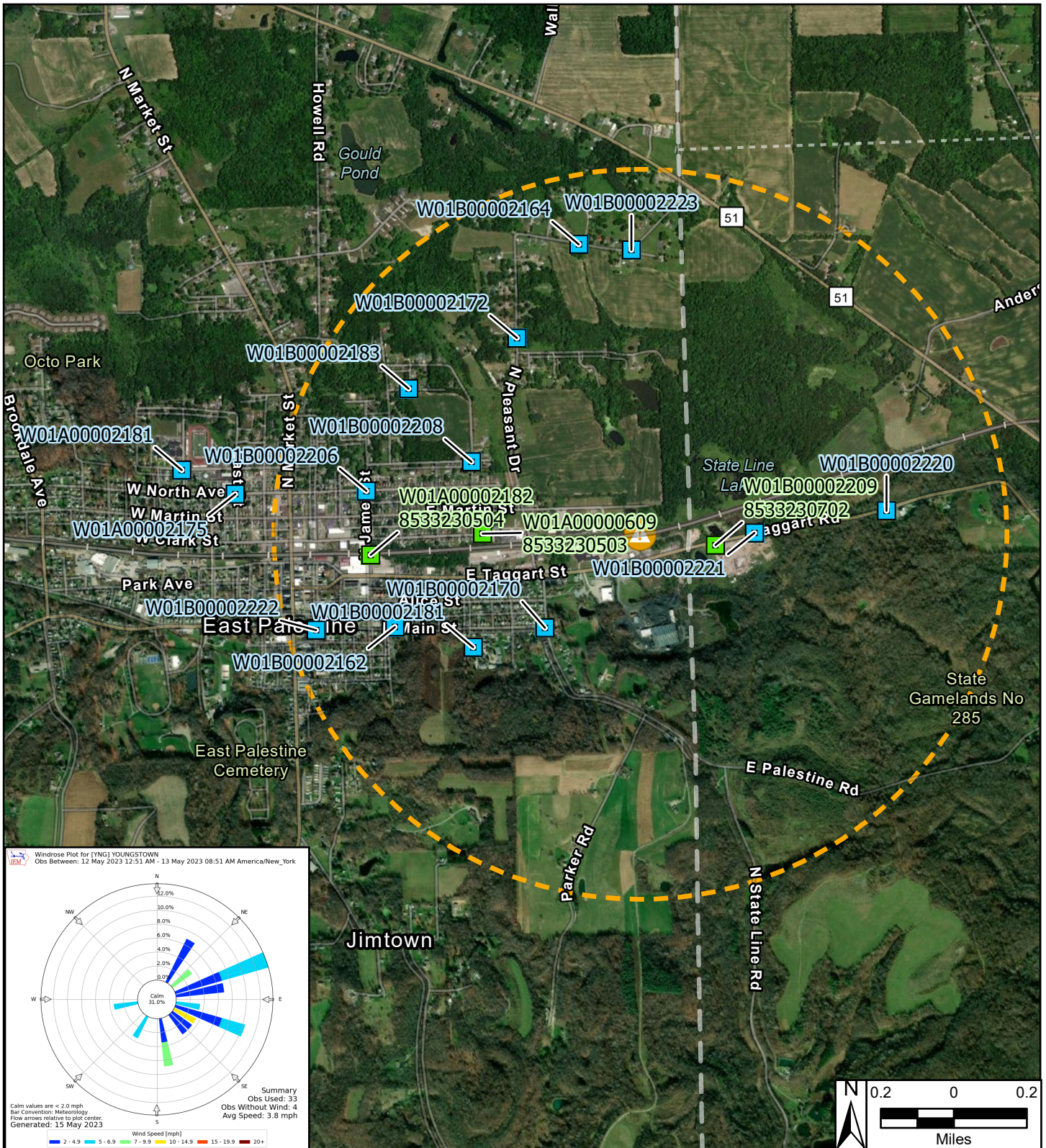
PM<sub>10</sub> - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

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**Legend**

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

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

**Figure 1**  
**Continuous Air Monitoring Community Stations**

**TETRA TECH**

Prepared For: EPA | Prepared By: Tetra Tech Inc.