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

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

Air Monitoring Instrument: Serial Number	Analyte	Screening Level[1]	Screening Level Exceeded?	8-hour Period Concentration Range	Average of All 8-hour Periods
8533230504	$PM_{2.5}$ (mg/m^3)	0.035 (mg/m^3)	No	0.002 to 0.028	0.015
	PM_{10} (mg/m^3)	0.070 (mg/m^3)	No	0.004 to 0.030	0.016
8533230702	$PM_{2.5}$ (mg/m^3)	0.035 (mg/m^3)	No	0.007 to 0.018	0.010
	PM_{10} (mg/m^3)	0.070 (mg/m^3)	No	0.012 to 0.022	0.016
8533183117	$PM_{2.5}$ (mg/m^3)	0.035 (mg/m^3)	Yes[2]	0.010 to 0.040	0.021
	PM_{10} (mg/m^3)	0.070 (mg/m^3)	No	0.016 to 0.042	0.025
W01A00002133	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.00	0.00
W01B00002209	VOC (ppm)	0.5 (ppm)	No	0.00 to 0.02	0.01
W01B00002220	VOC (ppm)	0.5 (ppm)	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:

mg/m^3 - milligrams per meter cubed

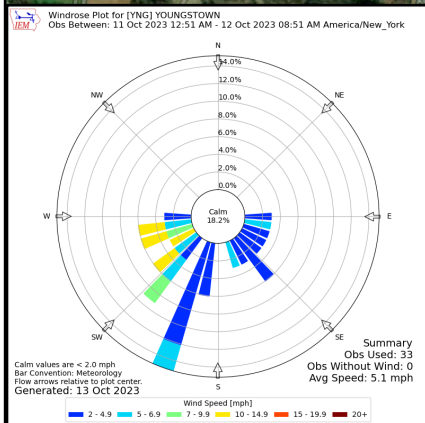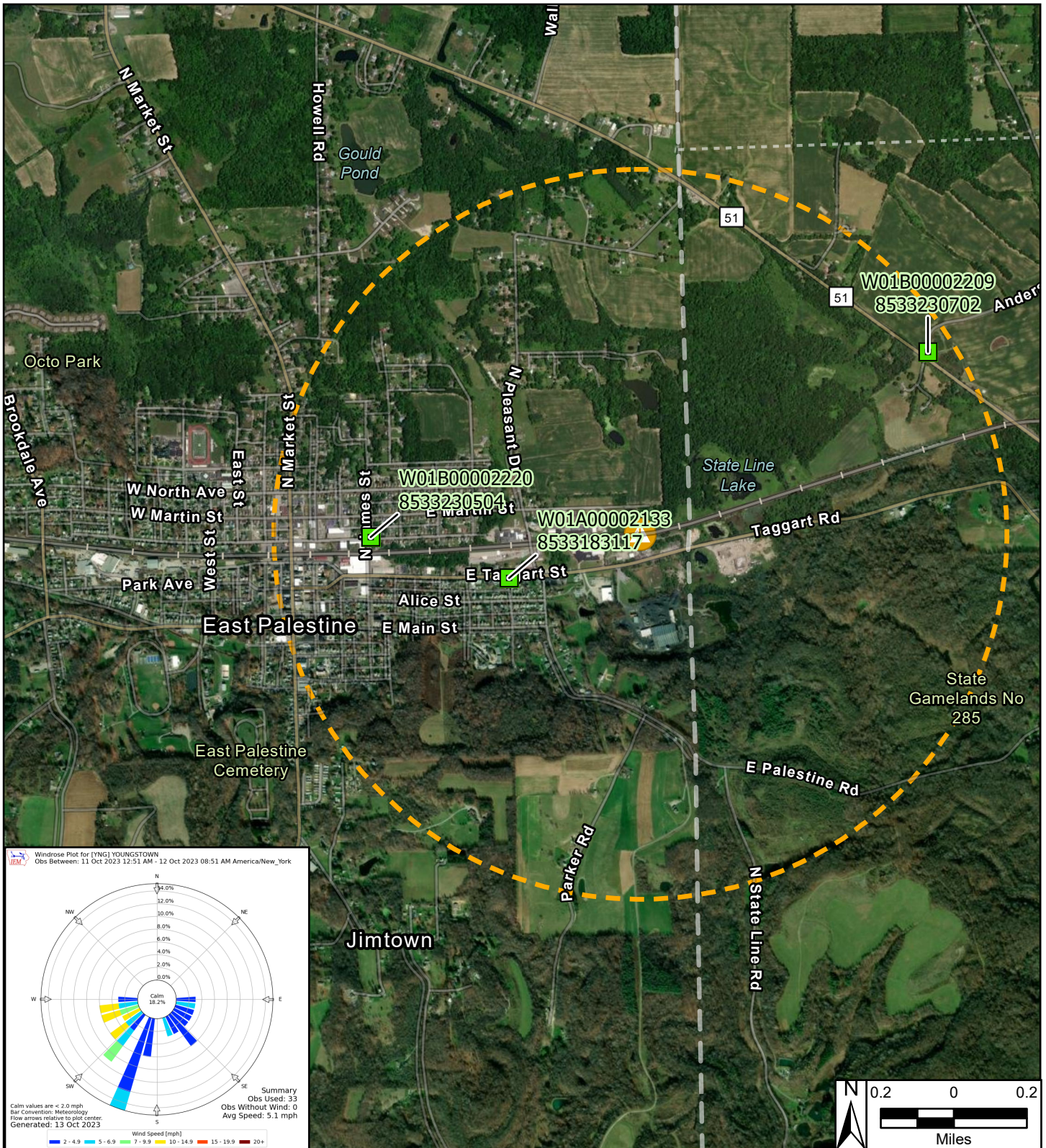$PM_{2.5}$ - Particulate Matter, diameter 2.5 micrometers and smaller

PM_{10} - Particulate Matter, diameter 10 micrometers and smaller

ppm - Parts per million

S/N - Serial number

VOC - Volatile organic compound

Windrose Plot for [YNG] YOUNGSTOWN
Obs Between: 11 Oct 2023 12:51 AM - 12 Oct 2023 08:51 AM America/New_York

Summary
Obs Used: 33
Obs Without Wind: 0
Avg Speed: 5.1 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Oct 2023

Wind Speed [mph]
2 - 4.9 5 - 6.9 7 - 9.9 10 - 14.9 15 - 19.9 20+

Calm 18.2%

W01B00002209
8533230702

W01B00002220
8533230504

W01A00002133
8533183117

Reference Map

Ohio

Site Location

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.

Date Saved: 10/12/2023

0.2   0   0.2
Miles