

Table 1
Roving Air Monitoring Results Summary Table: Post-Controlled Burn
East Palestine Derailment Emergency Response
East Palestine, Ohio
Monitoring Period: 02/06/2023 17:24 to 02/07/2023 14:12

Location	Date/Time	O ₂ (%)	LEL (%)	CO (ppm)	H ₂ S (ppm)	VOC (ppm)	PM _{2.5} (mg/m ³)	PM ₁₀ (mg/m ³)	HCN (ppm)*	Benzene (ppm)	Phosgene (ppm)	HCl (ppm)
		Screening Levels										
		19.5% to 23.5%	5%	25 ppm	0.1 ppm	0.5 ppm	0.025 mg/m ³	0.05 mg/m ³	0.5 ppm	0.5 ppm	0.04 ppm	1.8 ppm
PCR	2/7/2023 5:57				0	0.04				0		0.25
PCR-01A	2/6/2023 20:07	20.9	0	0	0	0	0.031	0.034	0	0	0	0
PCR-02A	2/6/2023 17:24	20.9	0	0	0	0.01			0	0	0	0
PCR-03A	2/6/2023 17:37	20.9	0	0	0	0			0.5	0	0	0
PCR-04A	2/6/2023 18:30	20.9	0	0	0	0.02	0.011	0.011	0.5	0	0	0.109
PCR-05A	2/6/2023 18:48	20.9	0	0	0	0	0.193	0.189	0.5	0	0	0.139
PCR-06A	2/6/2023 18:57	20.9	0	0	0	0	0.267	0.275	0.5	0	0	0.165
PCR-08A	2/6/2023 19:09	20.9	0	0	0	0	0.227	0.228	0.5	0	0	0.151
PCR-09A	2/6/2023 19:15	20.9	0	0	0	0	0.229	0.193	0.5	0	0	0.092
PCR-10A	2/6/2023 19:30	20.9	0	0	0	0	0.273	0.283	0.5	0	0	0.222
PCR-11A	2/6/2023 19:39	20.9	0	0	0	0	0.118	0.118	0.5	0	0	0.075
PCR-12A	2/6/2023 19:48	20.6	0	0	0	0	0.056	0.059	0.5	0	0	0.017
PCR-14A	2/6/2023 20:16	20.9	0	0	0	0			0.5	0	0	0
PCR-15A	2/6/2023 22:32									0	0	0
	2/6/2023 22:41					0			0	0	0	0
PCR-16A	2/7/2023 0:03	20.6		0	0	0.01			0	0	0	0
PCR-17A	2/7/2023 1:01											
	2/7/2023 1:04			0		0.03				0	0	0
PCR-19A	2/7/2023 1:10				0	0.08					0	0.045
PCR-21A	2/7/2023 3:46			0	0	0.04		0.054	0	0		0
PCR-23A	2/7/2023 4:10				0	0.03			0	0	0	0.044
PCR-24A	2/7/2023 4:24			0	0	0.07			0	0		
PCR-25A	2/7/2023 5:24		0	0	0	0.02			0		0	
PCR-26A	2/7/2023 14:12	21.3	0	0	0	0	0.01	0.011	0	0	0	0
PCR-27A	2/7/2023 0:27		0	0	0	0	0.059	0.059	0	0	0	0
PCR-31A	2/6/2023 23:28		0	0	0	0	0.017	0.018	0	0	0	0
PCR-34A	2/6/2023 23:39		0	0	0	0	0.015	0.015	0	0	0	0
PCR-35A	2/7/2023 13:44	21.4	0	0	0	0	0.01	0.011	0	0	0	0
PCR-37A	2/7/2023 13:21	21.4	0	0	0	0	0.009	0.008	0.5	0	0	0
PCR-39A	2/7/2023 10:21		0	0	0	0		0			0	0
PCR-43A	2/7/2023 13:13	21.3	0	0	0	0.01	0.01	0.011	0	0	0	0
PCR-44A	2/6/2023 20:28		0	0	0	0	0.15	0.015	0	0	0	0
PCR-45A	2/6/2023 18:41		0	0	0	0	0.034	0.045	0	0	0	0.073
PCR-46A	2/7/2023 2:02		0	0	0	0	0.029	0.029	0	0	0	0
PCR-47A	2/7/2023 11:20		0	0	0	0	0.01	0.012	0		0	0
PCR-48A	2/7/2023 13:30	21.4	0	0	0	0	0.009	0.009	0	0	0	0
PCR-49A	2/7/2023 5:43		0	0	0	0	0.027	0.029	0	0	0	0
PCR-50A	2/7/2023 6:19		0	0	0	0	0.036	0.037	0	0	0	0
PCR-51A	2/6/2023 17:25		0	0	0		0.31	0.02	0	0	0	0
PCR-52A	2/7/2023 13:51	21.4	0	0	0	0	0.009	0.016	0.5	0	0	0
PCR-53A	2/7/2023 10:29		0	0	0	0	0.01	0.01	0		0	0
PCR-55A	2/7/2023 5:00		0	0	0	0	0.038	0.04	0	0	0	0
PCR-56A	2/7/2023 13:38	21.4	0	0	0	0	0.015	0.016	0.5	0	0	0
PCR-57A	2/7/2023 0:43		0	0	0	0	0.029	0.034	0	0	0	0
PCR-58A	2/7/2023 2:38		0	0	0	0	0.034	0.034	0	0	0	0
PCR-59A	2/7/2023 2:50		0	0	0	0	0.03	0.03	0	0	0	0
PCR-60A	2/7/2023 2:21		0	0	0	0	0.03	0.03	0	0	0	0
PCR-61A	2/7/2023 4:33		0	0	0	0	0.081	0.082	0	0	0	0
PCR-N-01	2/7/2023 9:07	21.4	0	0	0	0	0.017	0.024	0	0	0	0
PCR-N-02	2/7/2023 9:53	21.4	0	0	0	0	0.016	0.016	0.5	0	0	0
PCR-N-03	2/7/2023 10:02	21.3	0	0	0	0	0.019	0.039	0.5	0	0	0

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 East Palestine, Ohio
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Location	Date/Time	O ₂ (%)	LEL (%)	CO (ppm)	H ₂ S (ppm)	VOC (ppm)	PM _{2.5} (mg/m ³)	PM ₁₀ (mg/m ³)	HCN (ppm)*	Benzene (ppm)	Phosgene (ppm)	HCl (ppm)
		Screening Levels										
		19.5% to 23.5%	5%	25 ppm	0.1 ppm	0.5 ppm	0.025 mg/m ³	0.05 mg/m ³	0.5 ppm	0.5 ppm	0.04 ppm	1.8 ppm
PCR-N-04	2/7/2023 10:11	21.4	0	0	0	0	0.013	0.018	0.5	0	0	0
PCR-N-05	2/7/2023 10:19	21.1	0	0	0	0	0.014	0.014	0	0	0	0
PCR-N-06	2/7/2023 10:29	21.1	0	0	0	0	0.012	0.019	0.5	0	0	0
PCR-N-07	2/7/2023 10:38	20.9	0	0	0	0	0.014	0.02	0	0	0	0
PCR-N-08	2/7/2023 11:16	21.2	0	0	0	0	0.009	0.009	0	0	0	0
PCR-N-09	2/7/2023 11:37	21.2	0	0	0	0	0.009	0.01	0.5	0	0	0
PCR-N-10	2/7/2023 11:48	21.3	0	0	0	0	0.009	0.011	0	0	0	0
PCR-N-11	2/7/2023 12:06	21.2	0	0	0	0	0.023	0.029	0.5	0	0	0
PCR-N-12	2/7/2023 12:21	21.3	0	0	0	0	0.006	0.006	0.5	0	0	0
PCR-N-13	2/7/2023 12:37	21.3	0	0	0	0	0.029	0.064	0	0	0	0

Notes:

 Highlighted cells indicate detections above screening levels

 Grey cells indicate no measurement was collected for that specific parameter

* - the screening level is the instrument's limit of detection.

% - percent

Cl - chlorine

CO - carbon monoxide

H₂S - hydrogen sulfide

HCl - hydrogen chloride

HCN -hydrogen cyanide

LEL - lower explosive limit

mg/m³ - milligrams per cubic meter

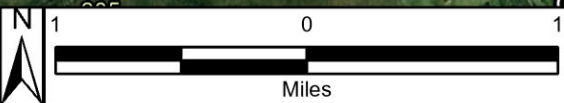
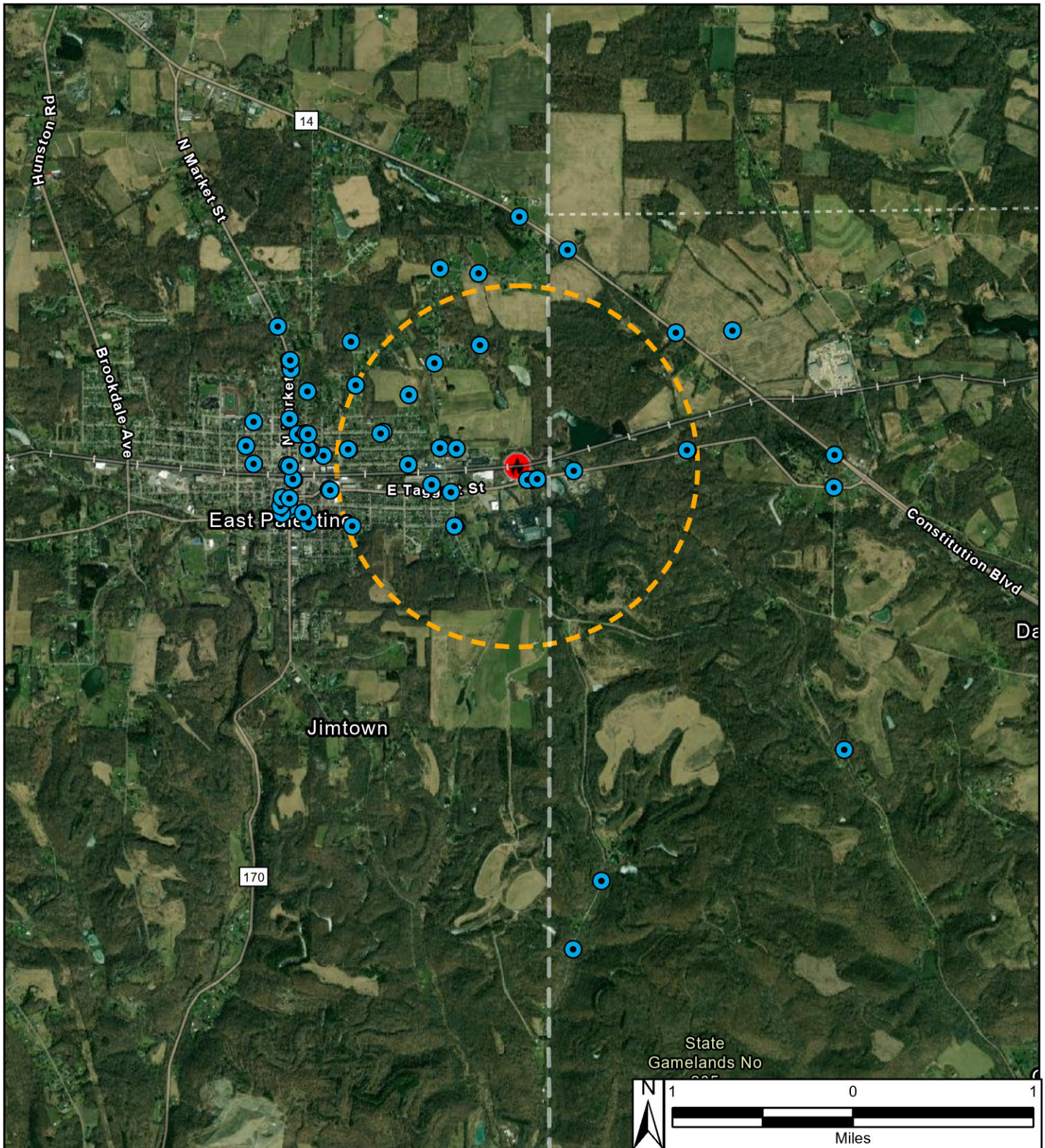
O₂ - oxygen

PM_{2.5} - particles that are 2.5 micrometers and smaller

PM₁₀ - particles that are 10 micrometers and smaller

ppm - parts per million

VOC - volatile organic compounds






Reference Map



Site Location

Legend

-  Derailment Location
-  One Mile Radius
-  Roaming Air Monitoring Locations

East Palestine Derailment ER Site
 75 E Main St
 East Palestine, Columbiana County, OH 44413

Figure 1
Roaming Air Monitoring Locations



Prepared For: EPA

Prepared By: Tetra Tech Inc.