

Weekly Air Monitoring Report

September 23 - 27, 2024

Historic Potteries Site RV2
Breunig Avenue Park
Trenton, Mercer County, New Jersey

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Reporting Period: September 23 to September 27, 2024

Report No: 1

1. Introduction

This report summarizes the Historic Potteries Removal Action Two Trenton Parks (RV2) air monitoring program conducted from September 23 to September 27, 2024, at the Breunig Park located at 22 Breunig Ave, Trenton, New Jersey (the site). Air monitoring for particulates less than 10 microns in diameter (PM10) was conducted in accordance with the U.S. Environmental Protection Agency (USEPA)-approved Community Air Monitoring Plan (CAMP). PM10 results were compared with action levels presented in the CAMP.

Air monitoring during the week of September 27, 2024, included the following monitoring tasks:

- Meteorological monitoring
- Site perimeter air monitoring
- Air Sampling

A summary of the monitoring activities that were conducted is presented in Section 3.

2. Meteorological Monitoring

Meteorological monitoring was conducted to measure wind speed, wind direction, and air temperature. Meteorological readings were recorded on a data logging device and evaluated at least three times per day to determine the upwind and downwind boundaries of the site.

Table 2-1 presents a summary of the meteorological monitoring during the week of September 27, 2024. The attached site air monitoring figure shows the locations of the meteorological station.

Table 2-1: Meteorological Monitoring Summary

Date	Weather
9/23/2024	Generally cloudy. High near 70°F. Winds ENE at 5-10 mph. (Online)
9/24/2024	Overcast. High 69°F. Winds E at 5-10 mph. (Online)
9/25/2024	Cloudy in morning with showers in afternoon. High 69°F. Winds E at 10-15 mph. (Online)

3. PM10 Monitoring

Air monitoring was performed using DustTrak® particulate monitors to ensure that site engineering controls for dust suppression are effective in protecting the health of all site personnel (workers, students, and faculty) and adjacent residences from fugitive dust which may potentially contain site-related contaminants. Four air monitoring stations were located around the site perimeter: one upwind and three downwind. Readings were recorded and maintained on site by START V.

A summary of work area perimeter air monitoring data is presented in the table 3-1 below.

Table 3-1 PM10 Perimeter Air Monitoring Summary

Date	Air Monitoring Station/Location	Upwind/ Downwind	PM ₁₀ 15-Minute Average Range (µg/m ³) <i>Action Level <150 µg/m³</i>
9/23/2024	Station ASL01 – Southwest	Downwind	10.3 – 69.5
	Station ASL02 – Southeast	Downwind	10.0 – 33.0
	Station ASL03 – Northeast	Upwind	5.8 – 12.4
	Station ASL04 – Northwest	Downwind	7.8 – 22.3
9/24/2024	Station ASL01 – Southeast	Downwind	10.2 – 22.0
	Station ASL02 – Northeast	Upwind	7.0 – 50.8
	Station ASL03 – Southwest	Downwind	7.0 – 40.2
	Station ASL04 – Northwest	Downwind	7.7 – 43.2
9/25/2024	Station ASL01 – Northeast	Upwind	2.3 – 16.8
	Station ASL02 – Southeast	Downwind	6.1 – 9.0
	Station ASL03 – Northwest	Downwind	7.0 – 38.0
	Station ASL04 – Southwest	Downwind	3.3 – 14.2

Notes:

1. µg/m³: micrograms per cubic meter

2. See CAMP for further details on action levels.

3. Station ASL03 for 9/24/2024 and 9/25/2024 shows overall minimum and maximum readings for that day.

4. Air Sampling

Air sampling for lead was conducted at each station during ground intrusive activities at the direction of the EPA On-Scene Coordinator (OSC). Air sample locations were co-located with air monitoring locations.

A summary of air samples collected is presented in table 4-1 below.

Table 4-1: Air Samples Summary

Date	Sample Name	Sample Location	Analyses
9/23/2024	HP001-P141-ASL01-240923-01	ASL01	Lead NIOSH 7307M
	HP001-P141-ASL02-240923-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-240923-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-240923-01	ASL04	Lead NIOSH 7307M
	FB-240923	NA	Lead NIOSH 7307M
	LB-240923	NA	Lead NIOSH 7307M
9/24/2024	HP001-P141-ASL01-240924-01	ASL01	Lead NIOSH 7307M
	HP001-P141-ASL02-240924-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-240924-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-240924-01	ASL04	Lead NIOSH 7307M
	FB-240924	NA	Lead NIOSH 7307M
9/25/2024	HP001-P141-ASL01-240925-01	ASL01	Lead NIOSH 7307M
	HP001-P141-ASL02-240925-01	ASL02	Lead NIOSH 7307M
	HP001-P141-ASL03-240925-01	ASL03	Lead NIOSH 7307M
	HP001-P141-ASL04-240925-01	ASL04	Lead NIOSH 7307M
	FB-240925	NA	Lead NIOSH 7307M

5. Issues or Potential Modifications to the CAMP

On 9/24/2024, the Dust Trak at ASL03 ceased transmitting data to the Envizor website, preventing real-time readings for dust levels from being viewed online. Despite troubleshooting efforts, this issue continued during site activities on 9/25/2024. Technical diagnostics indicated the Dust Trak modem to be at fault for the issue, and a functional replacement modem was installed on the Dust Trak on the morning of 9/26/2024.

Figure 1: 9/23/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction:



Figure 2: 9/24/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction:



Figure 3: 9/25/2024 Air Monitoring/Sampling Locations and Prevailing Wind Direction



Attachment A

Table 5: Air Analytical Results Summary - Lead
Historic Potteries Site
Trenton, Mercer County, New Jersey
HP001-P141
September 23 through 25, 2024

START V Sample Number	OSHA Action Level	HP001-P141-ASL01-240923-01	HP001-P141-ASL02-240923-01	HP001-P141-ASL03-240923-01	HP001-P141-ASL04-240923-01	FB-240923	LB-240923
Sample Location		HP001-P141-ASL01	HP001-P141-ASL02	HP001-P141-ASL03	HP001-P141-ASL04	Not Applicable	Not Applicable
Sample Stop Date		9/23/2024	9/23/2024	9/23/2024	9/23/2024	9/23/2024	9/23/2024
Sample Matrix		Air	Air	Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Blank	Lot Blank
Lead							
Lead (µg/m ³)*	30.0	ND	ND	ND	ND	ND	ND

START V Sample Number	OSHA Action Level	HP001-P141-ASL01-240924-01	HP001-P141-ASL02-240924-01	HP001-P141-ASL03-240924-01	HP001-P141-ASL04-240924-01	FB-240924	HP001-P141-ASL01-240925-01
Sample Location		HP001-P141-ASL01	HP001-P141-ASL02	HP001-P141-ASL03	HP001-P141-ASL04	Not Applicable	HP001-P141-ASL01
Sample Stop Date		9/24/2024	9/24/2024	9/24/2024	9/24/2024	9/24/2024	9/25/2024
Sample Matrix		Air	Air	Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Sample	Field Sample	Field Blank	Field Sample
Lead							
Lead (µg/m ³)*	30.0	ND	ND	ND	ND	ND	ND

START V Sample Number	OSHA Action Level	HP001-P141-ASL02-240925-01	HP001-P141-ASL03-240925-01	HP001-P141-ASL04-240925-01	FB-240925
Sample Location		HP001-P141-ASL02	HP001-P141-ASL03	HP001-P141-ASL04	Not Applicable
Sample Stop Date		9/25/2024	9/25/2024	9/25/2024	9/25/2024
Sample Matrix		Air	Air	Air	Air
Sample Type		Field Sample	Field Sample	Field Sample	Field Blank
Lead					
Lead (µg/m ³)*	30.0	ND	ND	ND	ND

Notes:

START V - Superfund Technical Assessment & Response Team V

OSHA - Occupational Safety and Health Administration

µg/m³ - micrograms per cubic meter

* - Field blank and lot blank results are expressed in micrograms per filter

ND - Analyte was not detected at or above the detection limit