# Environmental Pollution Event Tracking (EPET) Dashboard

# Background

Environmental pollution events often occur in low-income, minority-concentrated communities, creating environmental injustice. Environmental injustice contributes to health disparities by adding disproportionate environmental pollution burdens to already disadvantaged communities. Timely tracking of environmental pollution events is an effective approach to involve the public and take remediation actions to address environmental injustice issues. To our knowledge, no system has been established to track environmental pollution events.

# Overall Objective

The objective of this project is to establish an online dashboard that identifies and compiles historical environmental pollution events and tracks and reports future environmental pollution events in Tennessee.

# Specific Aims

SA1: To identify the most frequent terms in news of environmental pollution events.

Deliverables:

1.1 Identified terms and words

1.2 A word cloud

SA2: To identify environmental pollution events in Tennessee from 2014 to 2023 reported in social media and online newspapers.

Deliverables:

2.1 Identified events by environmental media (air, water, waste, and noise)

2.2 Time and address of each event

2.3 Frequency tables of environmental pollution events

SA3: To track future environmental pollution events in Tennessee reported in social media and online newspapers.

Deliverables:

3.1 Time and address of the event

3.2 Mapping of the event

3.3 Determination of whether the event occurred in a disadvantaged community

3.4 Automatic forwarding of the event to subscribers

# Funding Opportunity

EPA’s People, Prosperity, and the Planet’s (P3) Program: <https://www.epa.gov/P3>

Due February 21, 2024.