

# **Ground Water Contamination**

**Analysis on California State**

**Presented By:**

**Rabeea Ali**

**Nawaf AlHajeri**

**Hussain AlShaway**

# Executive Summary



## Data Topic

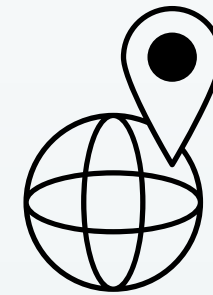
ASSESSMENT OF ENVIRONMENTAL CONTAMINATION CASES ACROSS CALIFORNIA COUNTIES.



## Data Theme

ENVIROMENTAL

Ground Water  
Contamination



## Origin of Data

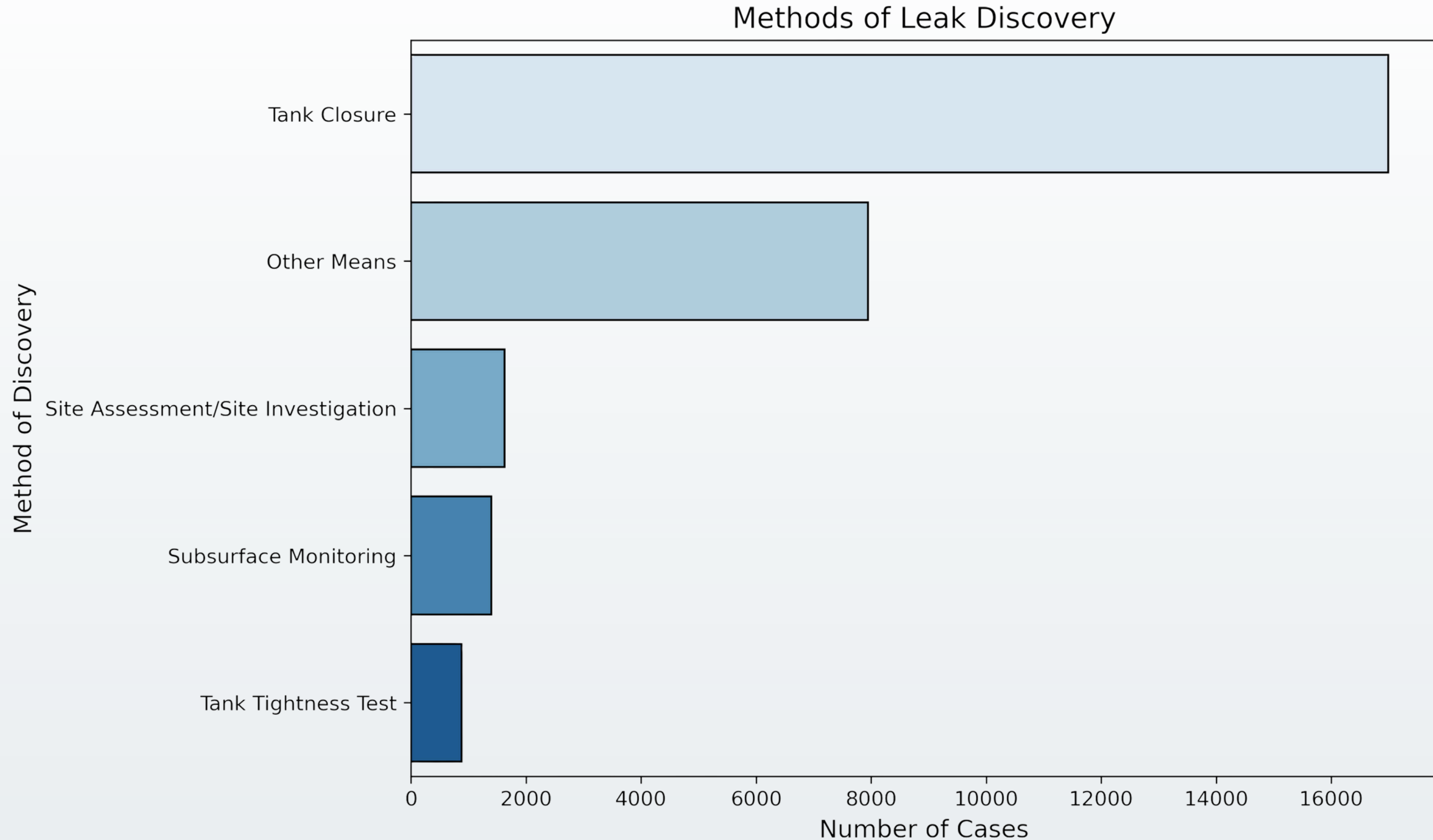
CALIFORNIA STATE



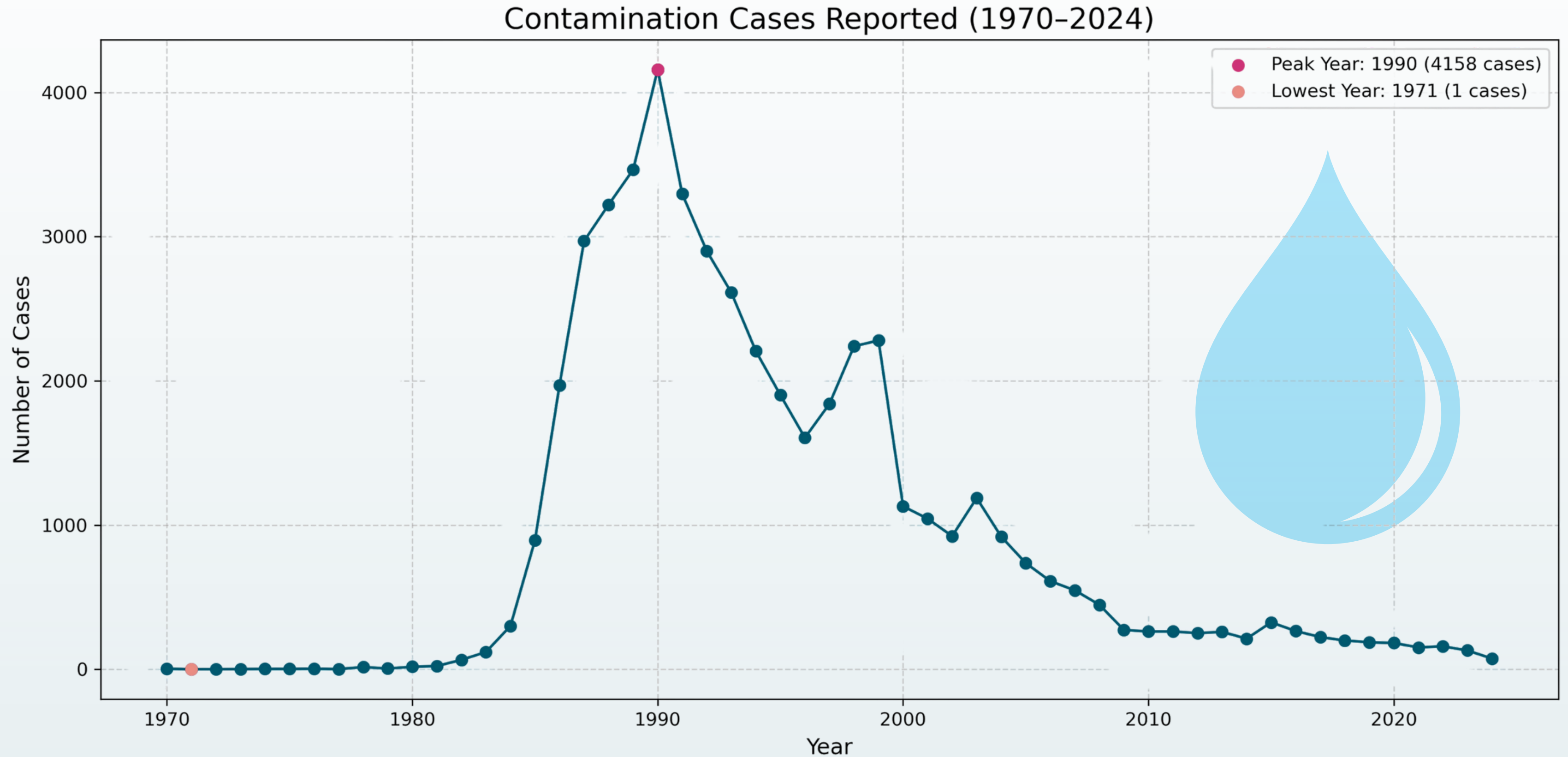
## Data-Set Size

75,063 ROWS × 44 COLUMNS

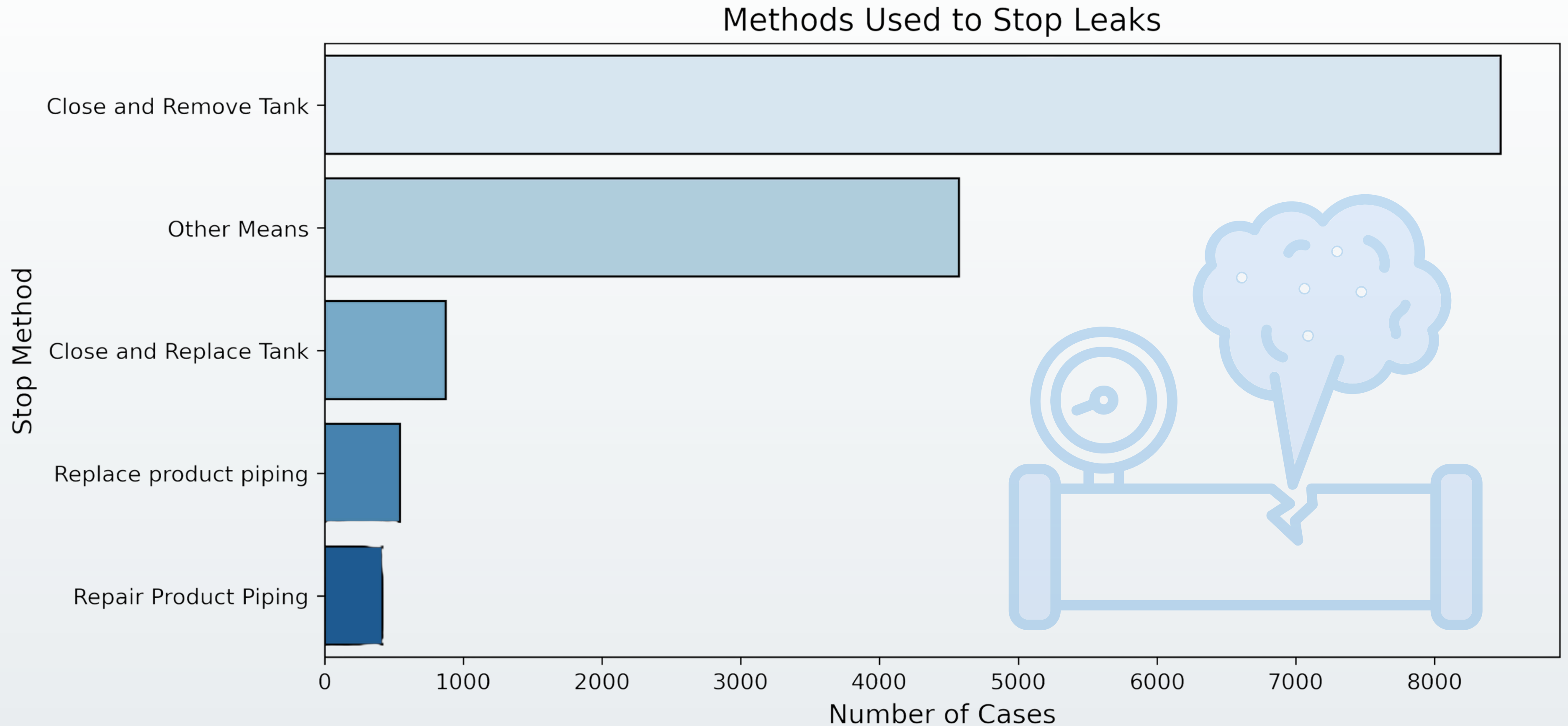
# How Leaks Were discovered?



# The Rise and Fall of Contamination Cases

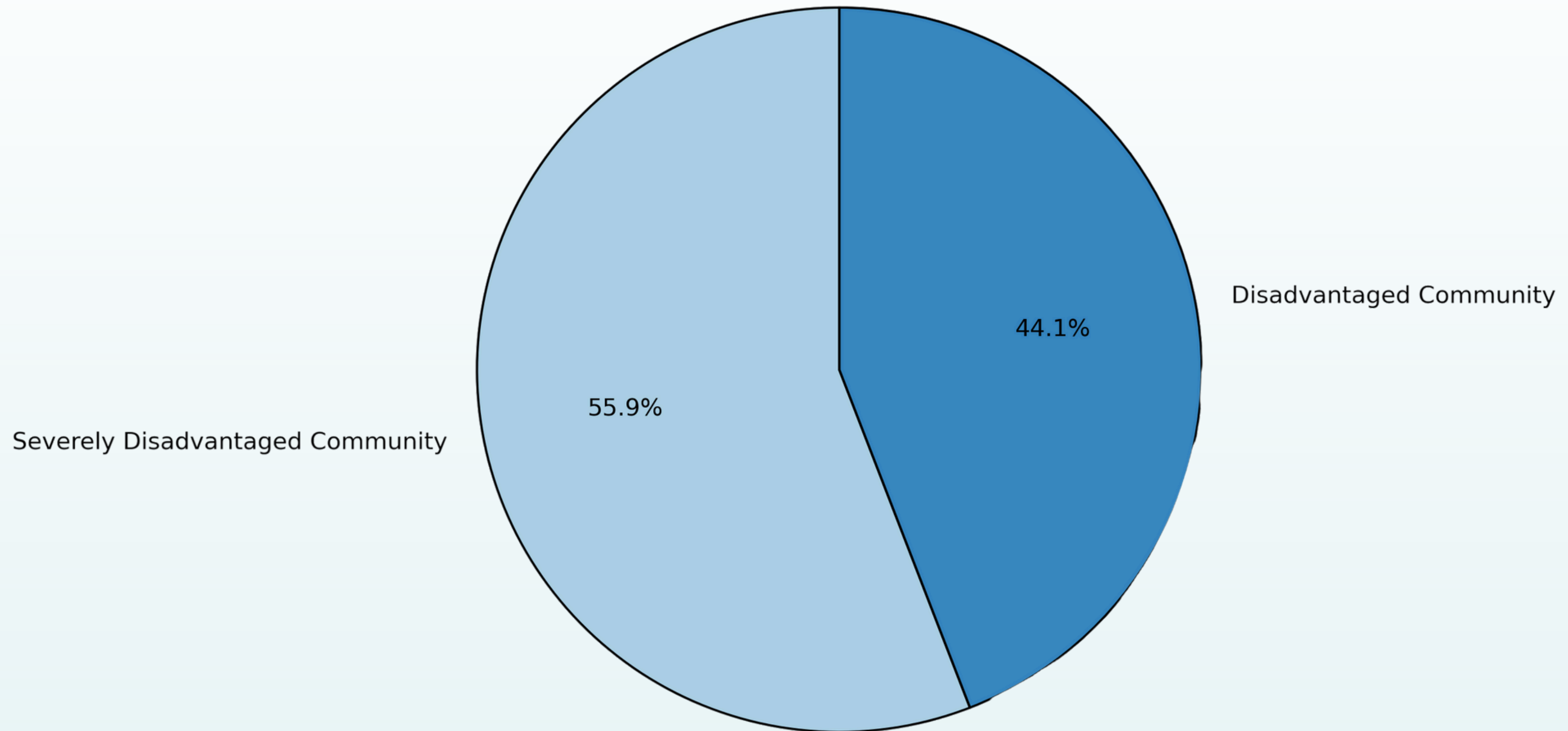


# How Leaks Were Stopped?



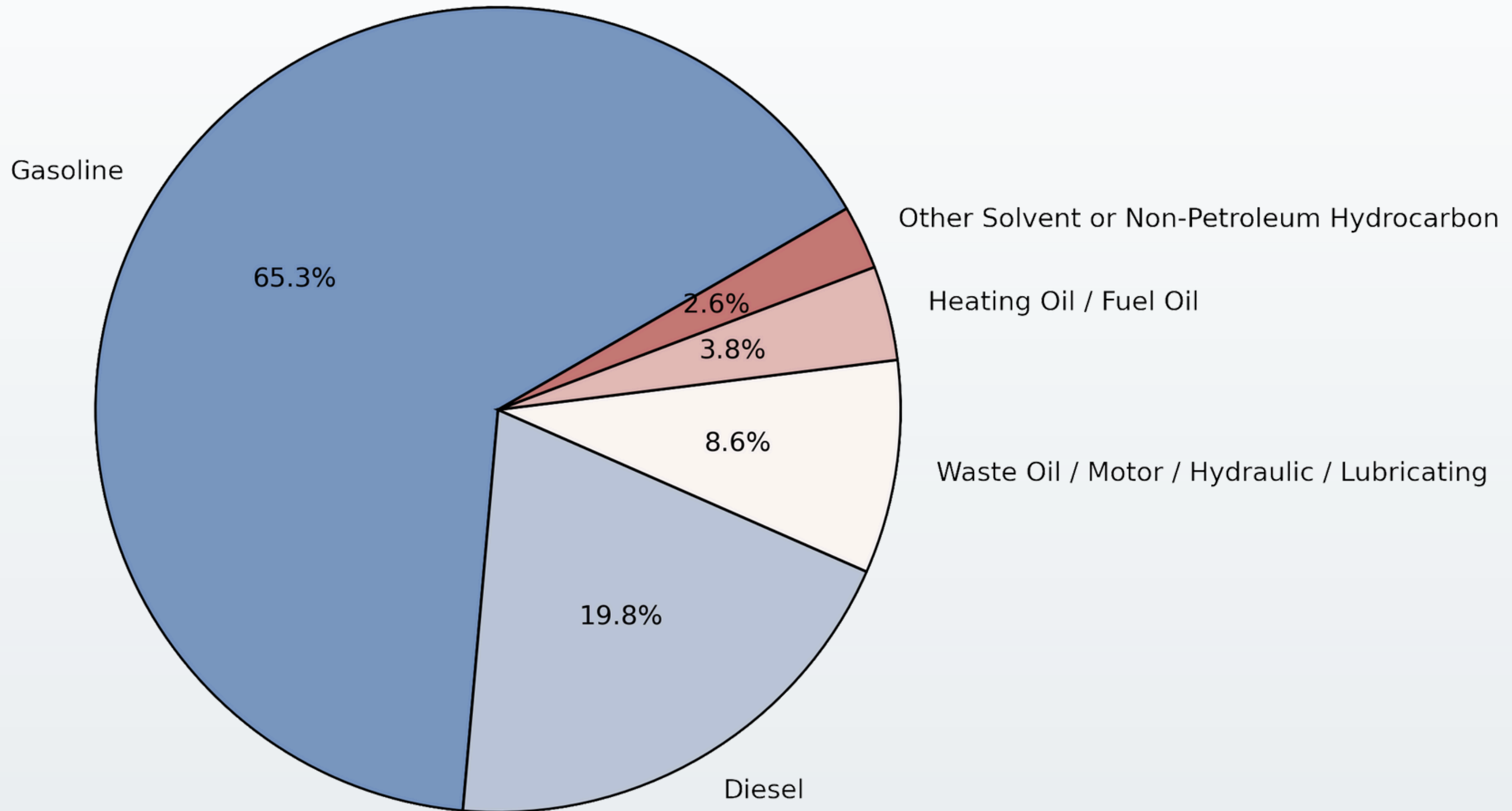
# What are the Communities at Risk?

Contamination Cases in Disadvantaged vs Other Communities



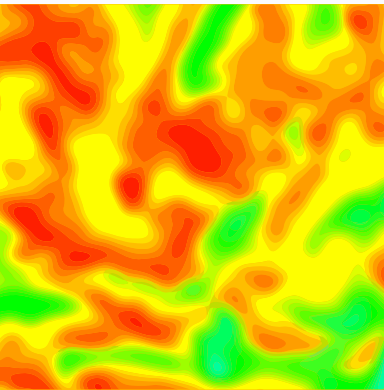
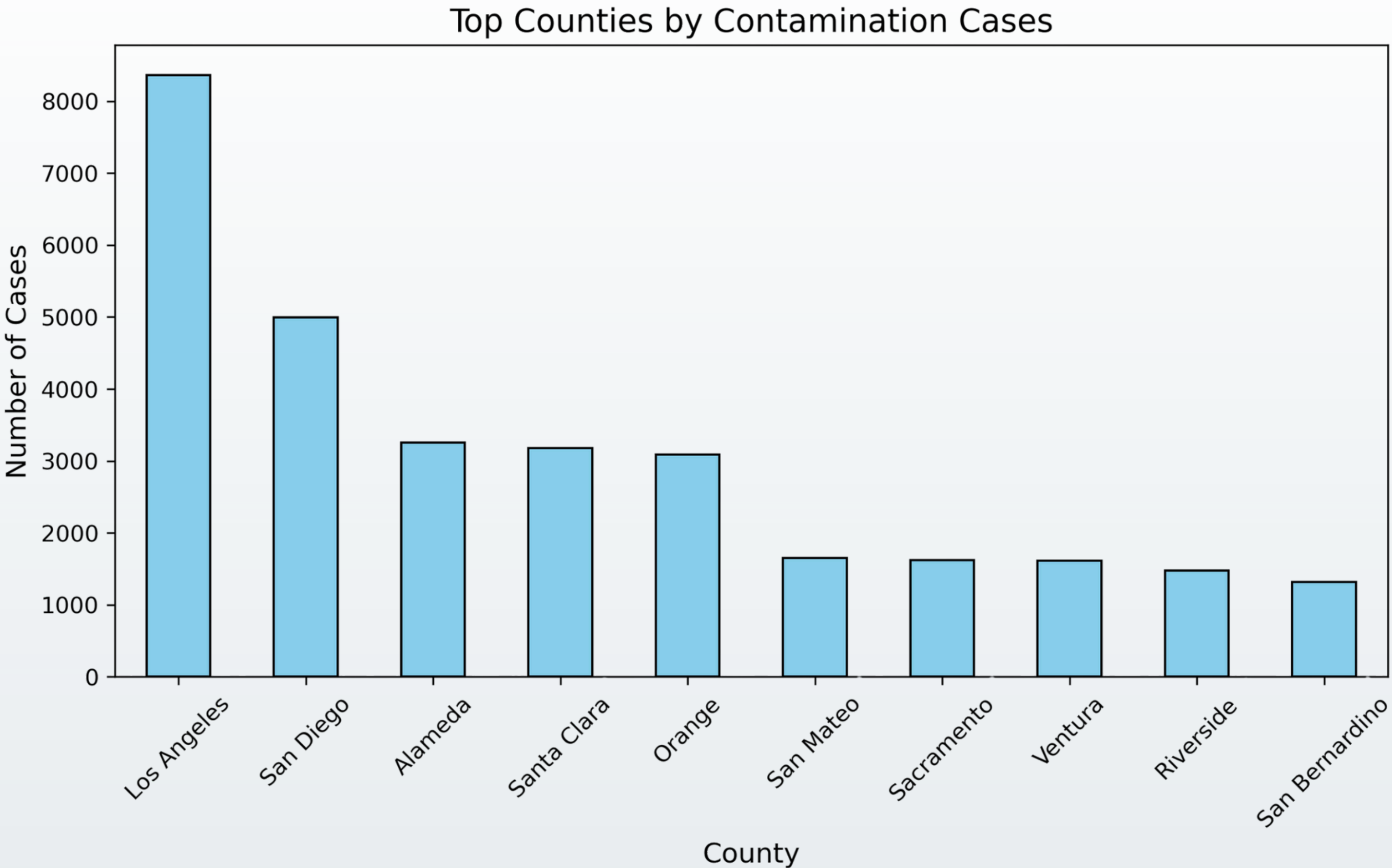
# What's the top Contaminants?

Top 5 Contaminants in Reported Cases

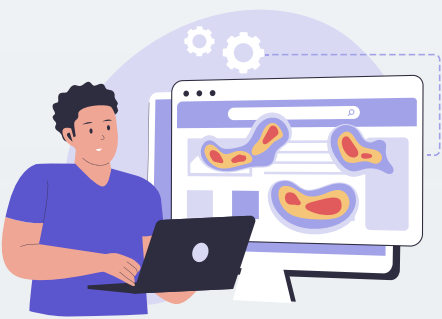
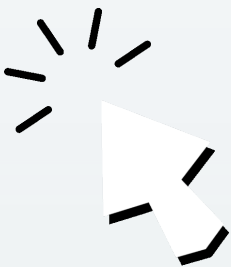




# Where is the contamination present and most concentrated?



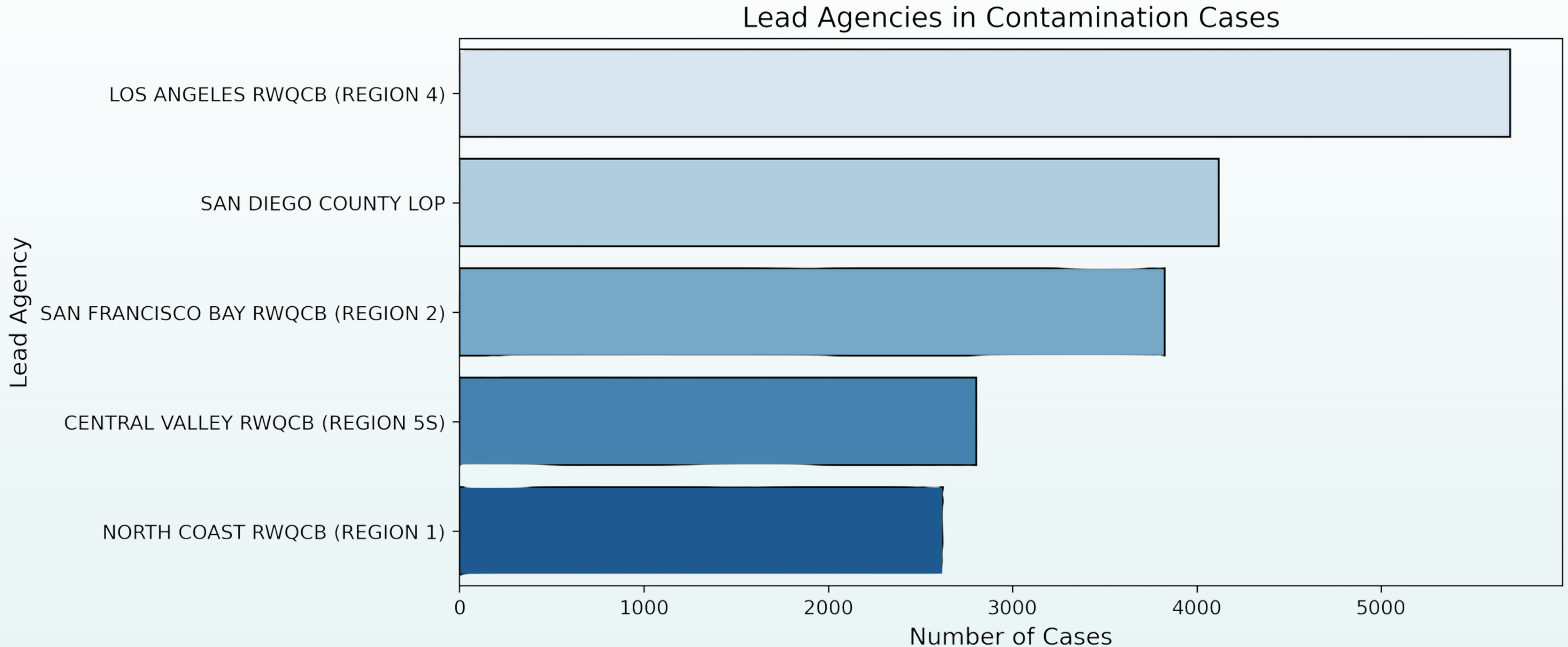
**HEAT**  
**MAP**



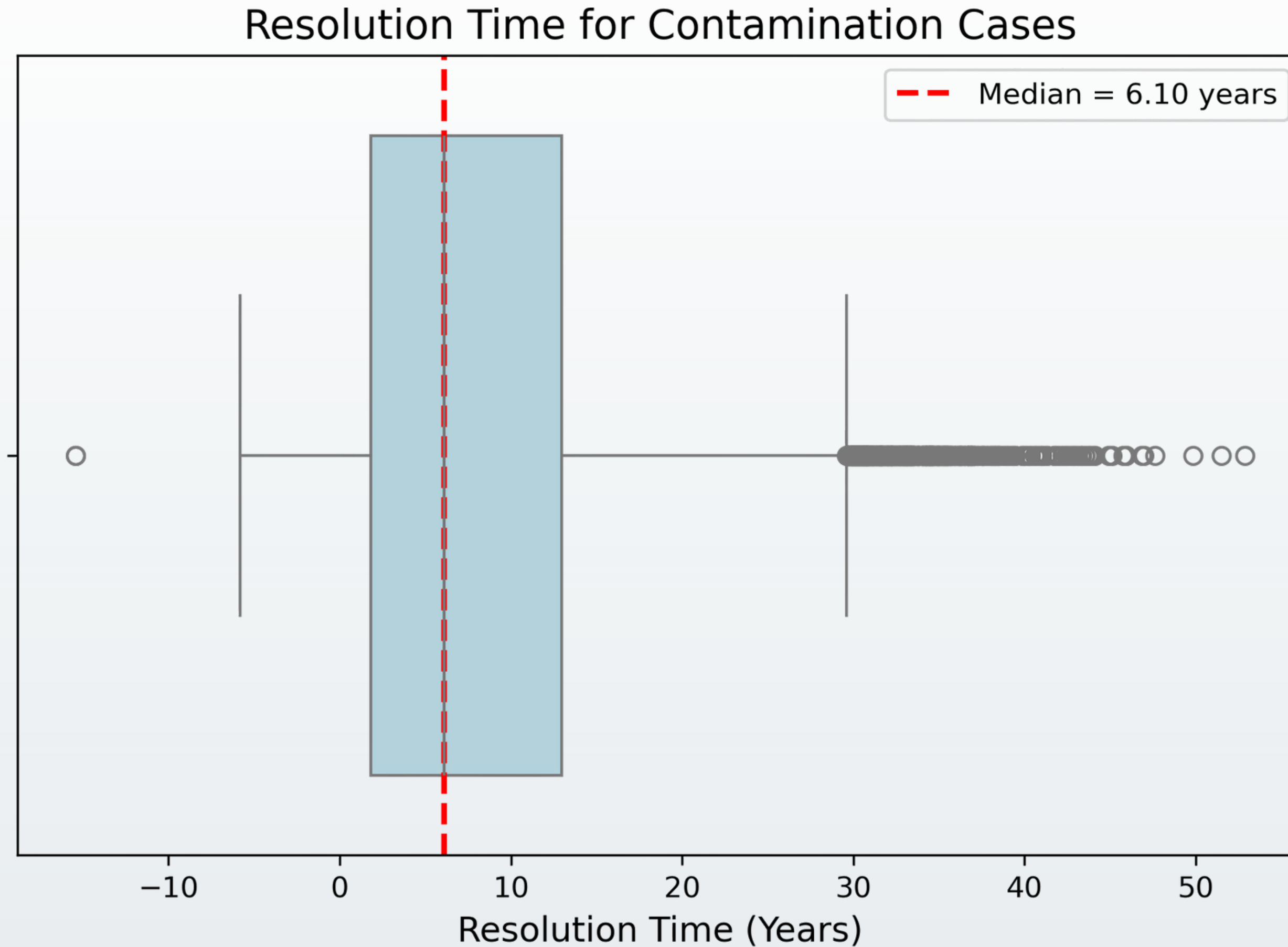
**CONCENTRATION**  
**MAP**



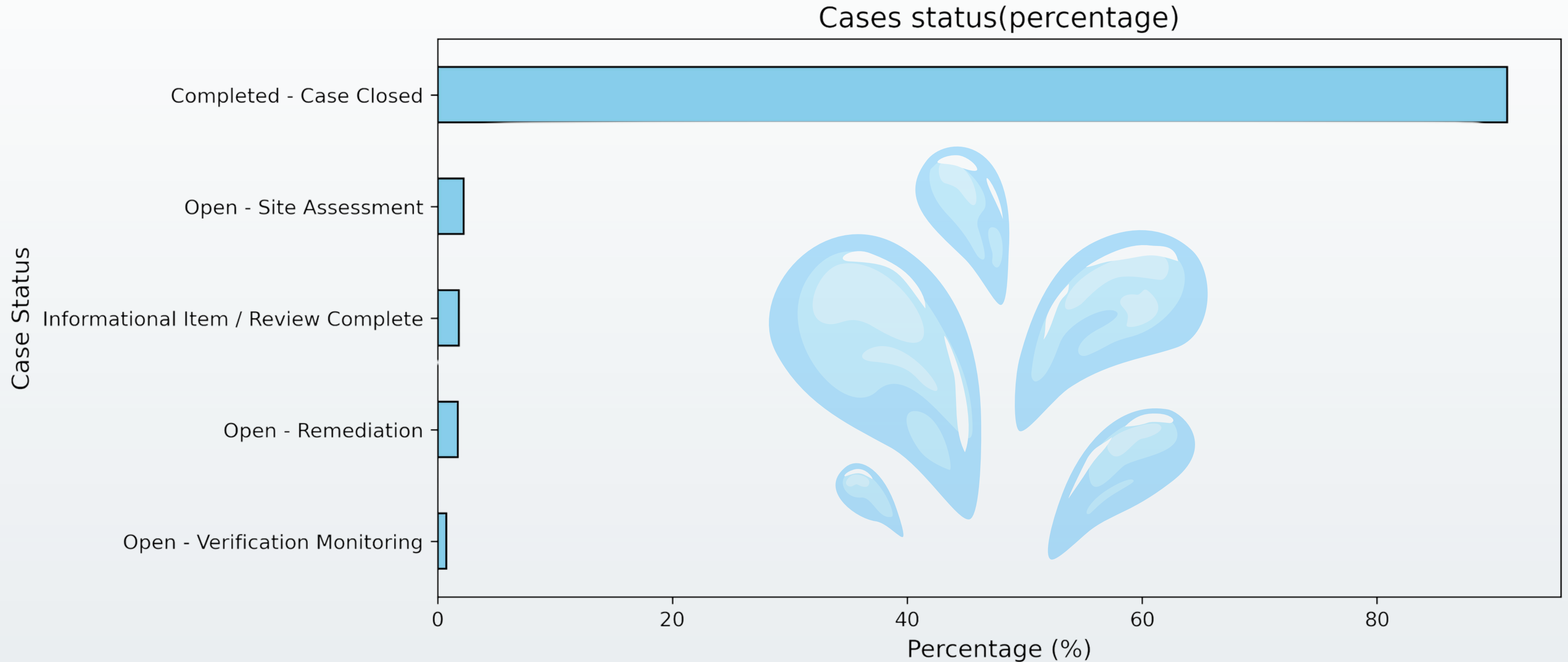
# What are the top lead agencies in charge?



# How long it took to close/repair leaks?



# What is the status of the cases?



# Closing Analysis

(1)



## Los Angeles

HAS THE MOST CASES

+8K CASES



## Central Valley

BEARS THE HIGHEST BURDEN

(2)

(3)



## Deploying Mitigation Plan

HIGH-BURDEN VALLEY COMMUNITIES.

AS PRIORITY.

# Recommendations

- **Double Wall Tanks.**
- **Better Monitoring Systems.**
- **Improve Case Reporting & Data Quality.**
- **Prioritizing Vulnerable Communities.**





**Thank you !**