

# San Diego County Air Pollution Control District (District)



## 2019 & 2020 Air Toxic “Hot Spots” Report

May 2021

# California Air Toxics “Hot Spots” Program (Assembly Bill 2588)



## Program Goal

- Protects the public’s right to know about toxic air contaminant emissions and how these emissions can potentially impact public health; and,
- Requires health risk reductions for facilities with elevated health risks

## Toxic Air Contaminants

- Chemicals emitted into the atmosphere that may cause adverse health effects

## Adverse Health Effect

- Range from minor eye or throat irritation, shortness of breath, or headaches, to cancer, birth defects, or damage to organs

# Sources of Toxic Air Contaminants



Stationary  
Sources



Mobile Sources



Area Sources

# California Air Toxics “Hot Spots” Program



**Quantify Toxic  
Air Contaminant  
Emissions**

**Identify Facilities  
that may Present  
Public Health  
Concerns**

**Request Health  
Risk  
Assessments**

**Implement  
Public  
Notification and  
Risk Reduction  
Requirements**

# Air Toxics “Hot Spots” Program Health Risks



## Cancer Risk

Calculates the probability that a person would contract cancer if exposed to emissions for 30 years

## Health Hazard Index

Calculated for acute exposure (or short-term health impacts) and chronic exposure (or long-term health impacts)

Index < 1 → no adverse health effects

Index ≥ 1 → potential for adverse health effects

## Cancer Burden

Estimates of the number of people that can contract cancer within a community that is exposed to the emission levels

# Existing Public Notification and Risk Reduction Thresholds

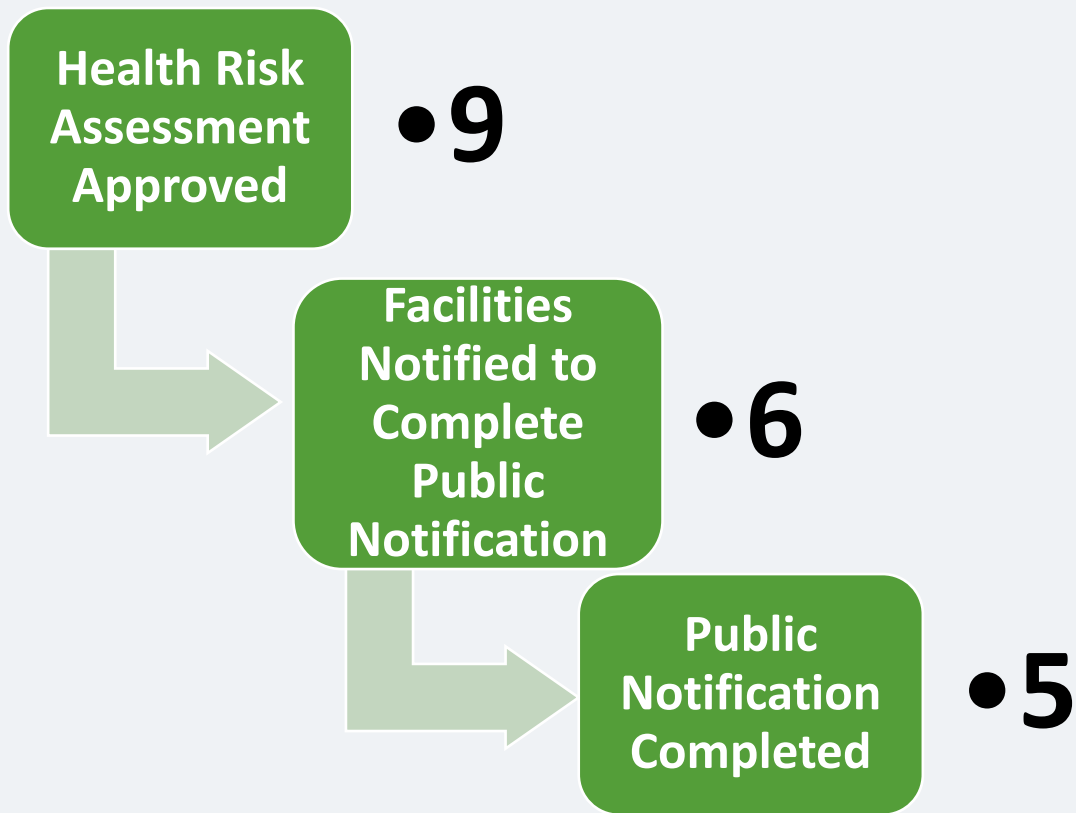


<b>Health Risk</b>	<b>Public Notification Threshold</b>	<b>Risk Reduction Threshold</b>
Cancer Risk	10 in one million	100 in one million
Acute Noncancer Health Hazard Index	1.0	1.0
Chronic Noncancer Health Hazard Index	1.0	1.0
Cancer Burden	1.0	1.0

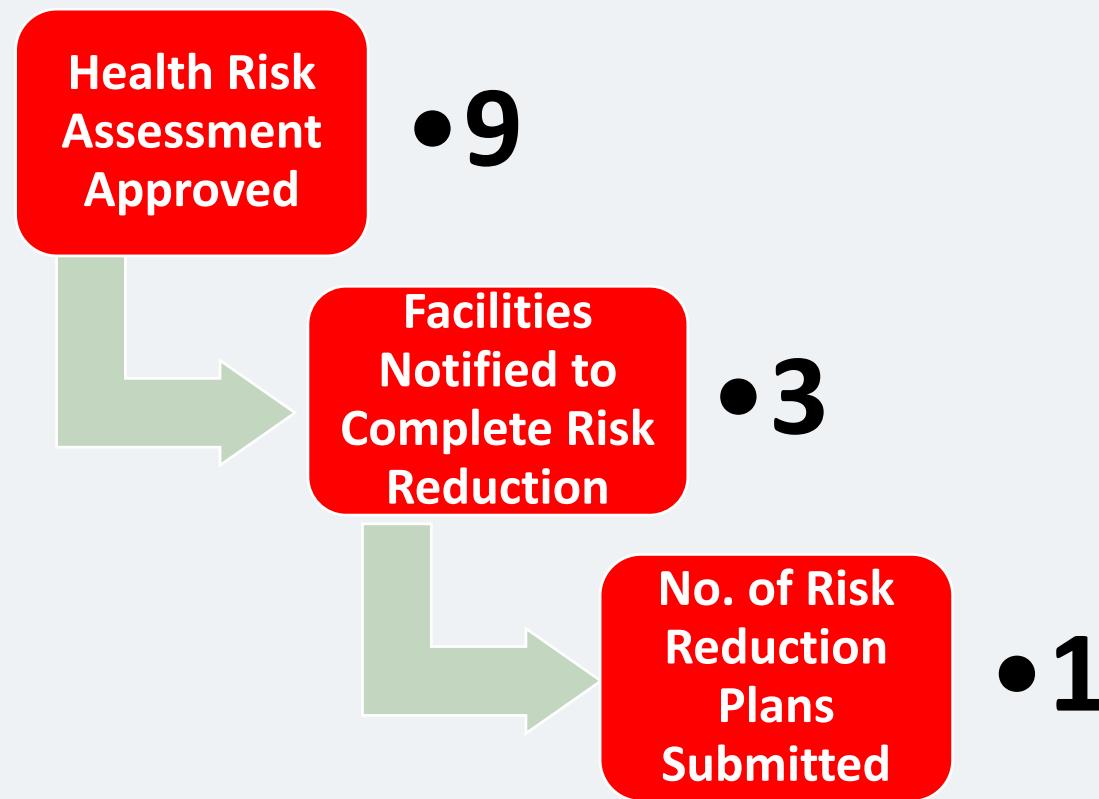
# Air Toxic “Hot Spots”

## Key Program Activities (2019 & 2020)

### Public Notification Requirements



### Risk Reduction Requirements



# Air Toxic “Hot Spots”

## Key Program Activities (2019 & 2020)

- **Emission Inventories Approved**

~2,600



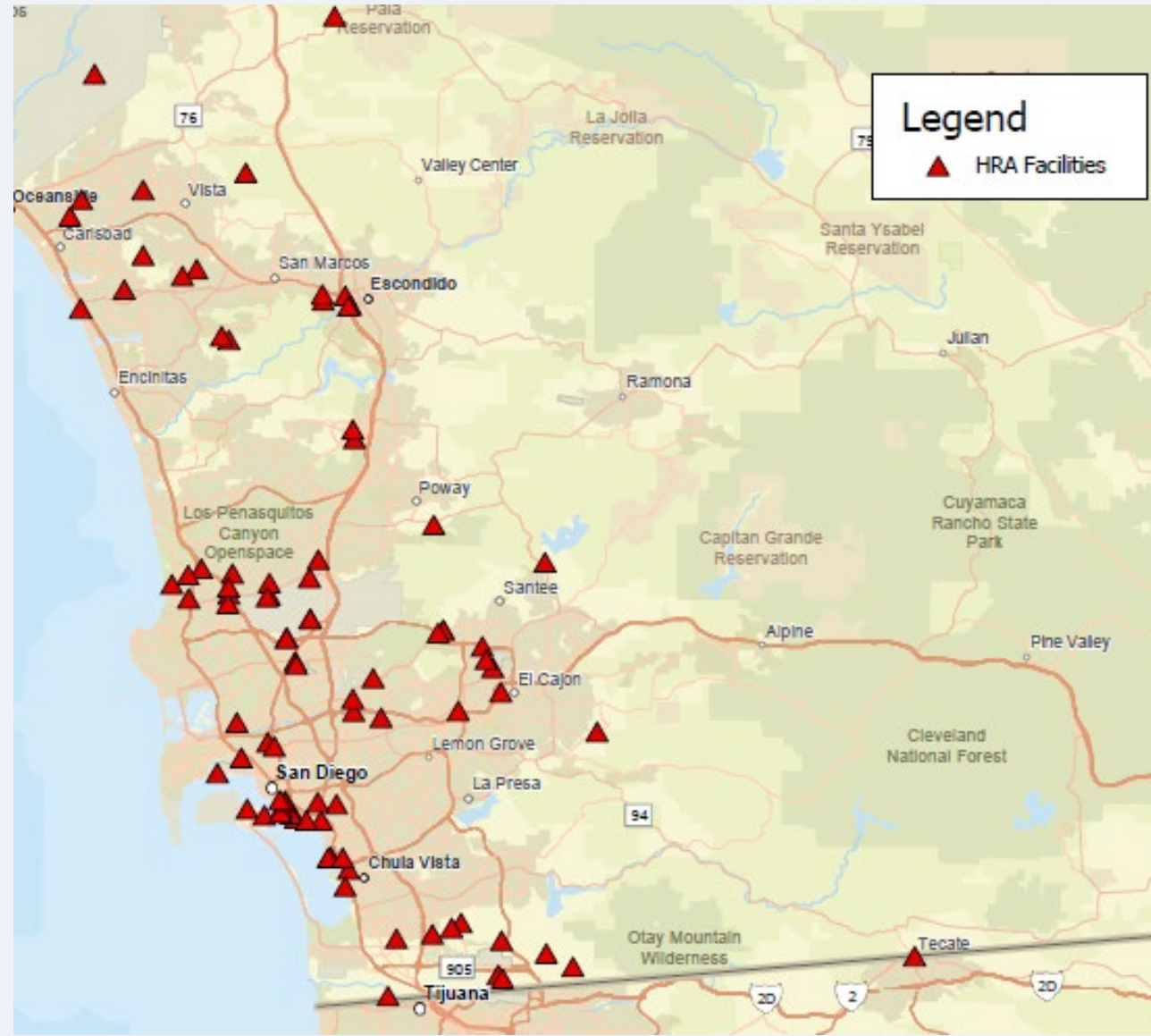
- **Health Risk Assessments Requested**

~50

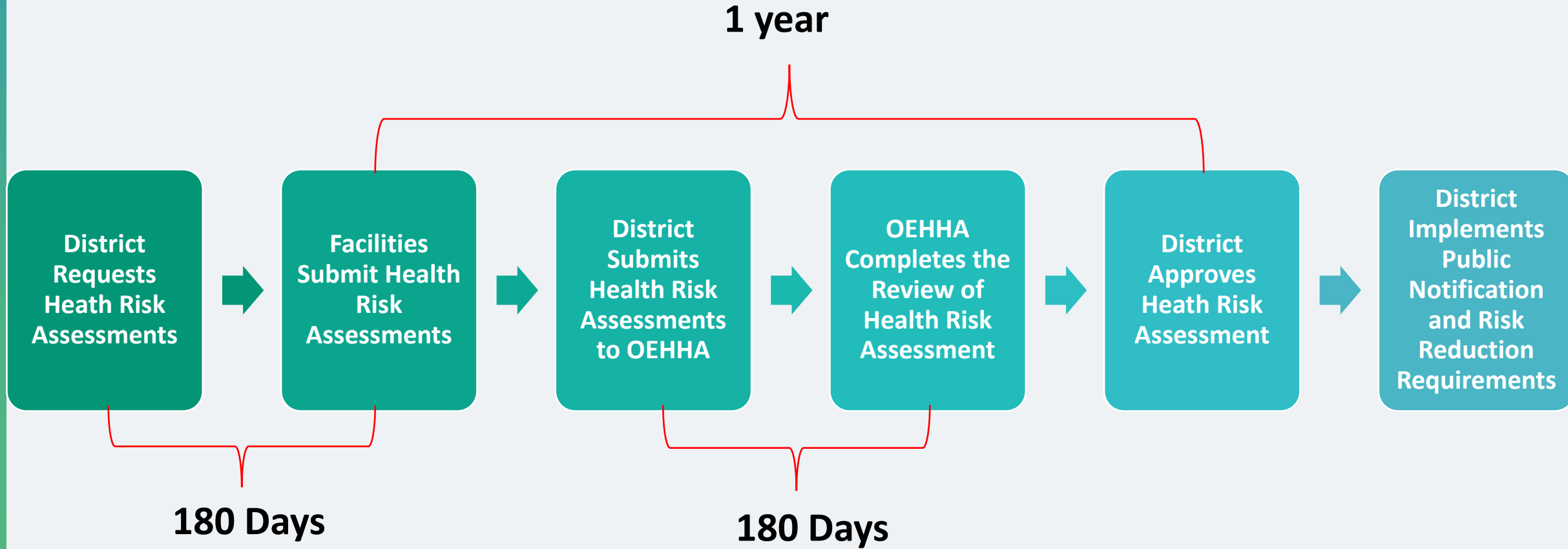




# Stationary Source Locations



# Air Toxic “Hot Spots” Process Overview



# Stakeholder Engagement



On April 1, 2021, a draft of the 2019 and 2020 Air Toxics “Hot Spots” Program Report was released in English and Spanish  
A virtual public meeting was scheduled for April 22, 2021



District reached out to multiple organizations, community partners, regulated community, and members of the public



On April 22, 2021, the District held a virtual public meeting  
Spanish interpretation services were provided during the meeting  
The meeting is available on the District’s YouTube Channel

# Public Meeting Comments

## Report New Format

Report has a new format when compared to previous reports

## Request for Additional Information

Include: (1) progress in reducing overall toxic emissions from all sources and (2) enhanced methodology to calculate health risks

## Report Review Timeline

Concerns based on the assumption that comments had to be provided in two business days

# Ongoing Efforts to Reduce Health Risks

- Amendments to the Emission Inventory Report for the Air Toxics “Hot Spots” Program

## Emission Inventory Report



- Reduce exposure to air pollutants in communities based on environmental, health and socioeconomic data

## Community Air Protection Program



- Evaluate Rule 1210 to better protect public health
- Rule 1200-new/expanding operations

## Air Toxic Rules



- Evaluating health risks from welding operations to determine if these operations need to be permitted

## Welding Operations



- MOU with the California Air Resources Board to enforce diesel on-road and off-road vehicles regulations

## Mobile Sources



- The District administers grant programs to clean up and/or replace diesel powered vehicles and other equipment

## Incentives



# Today's Recommendations

## Staff Recommendation

- Authorize the Air Pollution Control Officer to Distribute the 2019 and 2020 Air Toxics “Hot Spots” Program Report for San Diego County