



**San Diego County Air Pollution Control District**

# **Vulcan Materials Otay Mesa Asphalt Plant**

**Public Meeting**

---

**July 13, 2022**



# Meeting Agenda

## SDAPCD

Purpose of this meeting  
Air Toxics and the “Hot Spots” Program  
Facility operation, emissions, and health risk for 2019 emissions  
Next Steps (Risk Reduction Plan)

---

## Public Comment

Receive public comments  
Answer questions  
SDAPCD staff and Vulcan staff

---







# Vulcan

Materials Company



# Vulcan Materials Company

- Vulcan produces its products safely and with concern for public health, the environment, and pollution prevention.
- Vulcan provides our employees and the communities which we work in with a healthy and safe environment.
- Vulcan engages in the process of continuous improvement by periodically setting health, safety, and environmental targets and objectives and by constantly reviewing progress and achievement.
- Contact:  
Barbara Goodrich-Welk  
Manager, Government & Community Affairs  
858-530-9444 | [goodrich-welkb@vmcmail.com](mailto:goodrich-welkb@vmcmail.com)

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





# Air Toxics “Hot Spots” Program Public Notifications

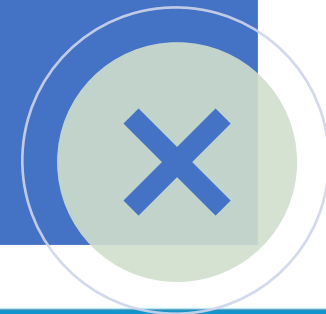
- Potential Health Risks from a Single Source of Air Pollution

Yes



- Potential Health Risks from ALL Sources of Air Pollution

No



# 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 negative health effects

Index ≥ 1 → potential for negative health effects

## Cancer Burden

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



# Rule 1210 Public Notification and Risk Reduction Thresholds

Health Risk	Public Notification Threshold	Risk Reduction Threshold
Cancer Risk	10 in one million	10 in one million (100 in one million for emissions prior to CY 2018)
Acute Noncancer Health Hazard Index	1.0	1.0
Chronic Noncancer Health Hazard Index	1.0	1.0
Cancer Burden	1.0	1.0





# Rule 1210 Public Notification and Risk Reduction Thresholds

Health Risk	Public Notification Threshold	Risk Reduction Threshold
Cancer Risk	10 in one million	10 in one million (100 in one million for emissions prior to CY 2018)
Acute Noncancer Health Hazard Index	1.0	1.0
Chronic Noncancer Health Hazard Index	1.0	1.0
Cancer Burden	1.0	1.0



# Elevated Health Risk

## Vulcan Materials 2019 Emissions

<b>Health Risk</b>	<b>HRA Results</b>	<b>Risk Notification Thresholds</b>	<b>Risk Reduction Thresholds</b>
<b>Maximum Worker Chronic Health Hazard Index</b>	<b>1.91</b>	<b>1.0</b>	<b>1.0</b>
<b>Maximum Worker Acute Health Hazard Index</b>	<b>1.18</b>	<b>1.0</b>	<b>1.0</b>



# Vulcan Materials

- Asphalt Batch Plant
- 7522 Paseo De La Fuente, San Diego,



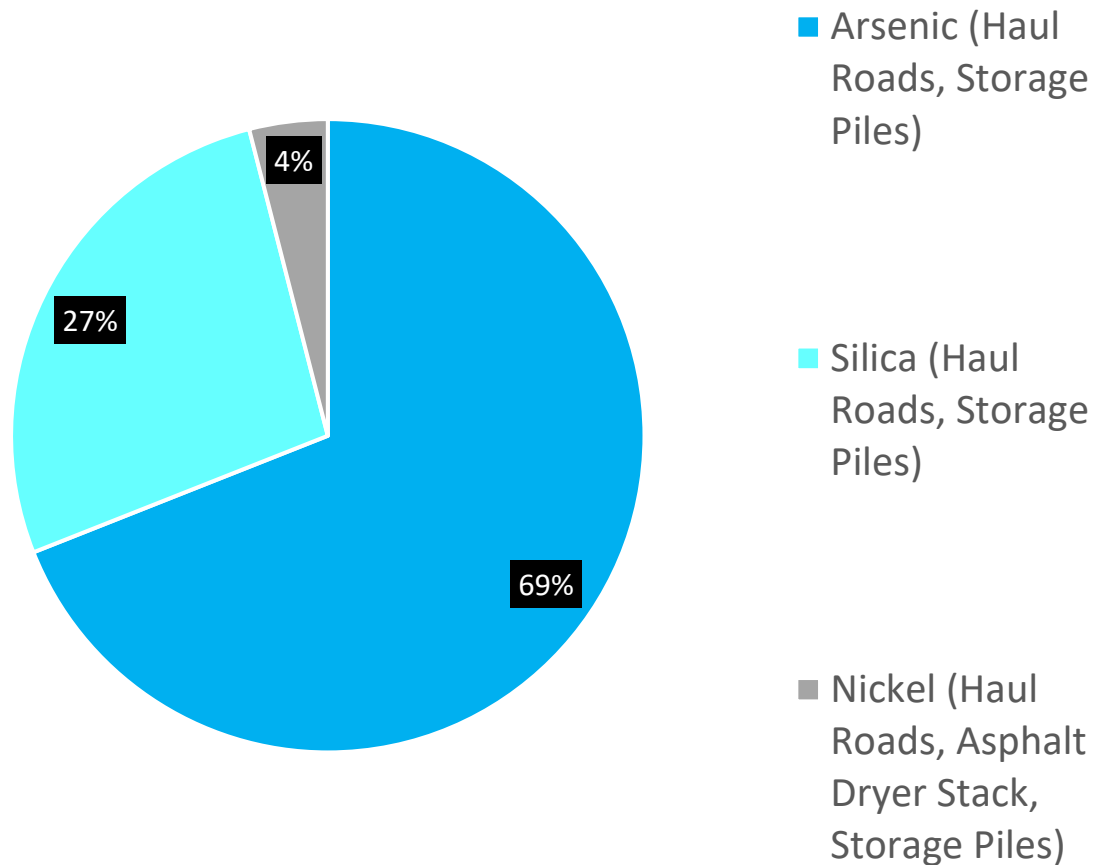


# Vulcan Materials Equipment

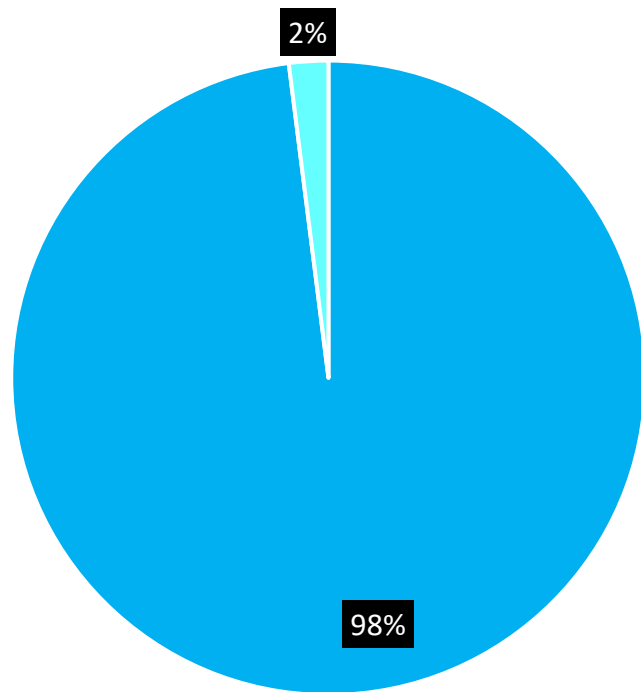




# Emission Contributions Worker Chronic non-Cancer Health Hazard Index of 1.91



# Emission Contributions Worker Acute non-Cancer Health Hazard Index of 1.18



■ Nickel (Asphalt Dryer Stack, Storage Piles, Haul Roads)

■ Benzene (Asphalt Dryer Stack, Engine)



# Calculated Health Risks

## Health Risks are Determined Based on where a Person may be exposed

- Residence
- Workplace
- School, Public Park, Library, etc.

## Health Risks are also Calculated at the Point of Maximum Impact (PMI)

- Location with the highest risk, that is not a residence, workplace, school, public park, library, etc. For example, in the middle of the ocean or river
- Not used to determine public notification or risk reduction requirements



# Next Steps

Vulcan to submit a risk reduction plan (due October 3, 2022)

Considering public comments, District to review and approve risk reduction plan

Vulcan will conduct annual notifications

District to review and approve Vulcan's 2023 emission inventory and determine if a HRA is required

Sign up for District Updates to receive notices at <https://bit.ly/3JTGsre>

