



**San Diego County Air Pollution Control District**

# **Encina Wastewater Authority**

**Public Meeting**

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**April 16, 2024**







# Encina Water Pollution Control Facility

- Regional provider of wastewater and recycled water
  - Cities of Carlsbad, Vista, Encinitas; Buena Sanitation, Vallecitos Water, and Leucadia Water Districts
  - 123 square mile service area; population 377k
- Average ~20 Million Gallons / Day
- Environmental Steward
  - Water Quality Protection
  - Biosolids => Fertilizer
  - Cogeneration Energy



# Background Air Toxics “Hot Spots” Program



# Background

## Air Toxics “Hot Spots” Program

### Health Risk Assessment

- As required by State law, Encina conducted a Health Risk Assessment based on emissions that occurred in 2021

### Approval

- State law requires the District and the Office of Environmental Health Hazard Assessment (OEHHA) to review and approve Health Risk Assessments conducted by facilities subject to the Hot Spots Program

### Requirements

- Based on the approved Health Risk Assessment, Encina was required to conduct public notification and submit a risk reduction plan to the District



# Elevated Health Risks Encina's 2021 Emissions

Health Risk	HRA Results	Risk Notification Thresholds	Risk Reduction Thresholds
Maximum Residential Cancer Risk	16.0 in one million	10 in one million	10 in one million
Maximum Worker Acute Health Hazard Index	1.17	1.0	1.0
Maximum Residential Acute Health Hazard Index	1.01	1.0	1.0





# Encina Wastewater Authority



- Wastewater Treatment Plant
- 6200 Avenida Encinas, Carlsbad



# Encina Equipment

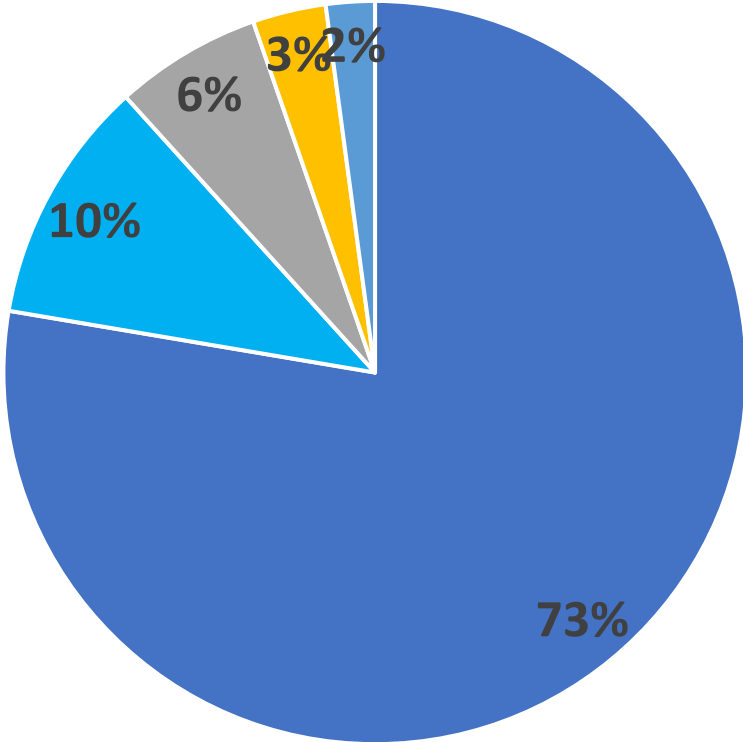




# Emission Contributions

## Residential Cancer Risk 16.0 in One Million

- Formaldehyde (Cogen Engines)
- Ethylene DiChloride (Engines and Odor Reduction)
- PAHs (Cogen Engines)
- Arsenic (Cogen Engines)
- Benzene (Cogen Engines, Odor Reduction)

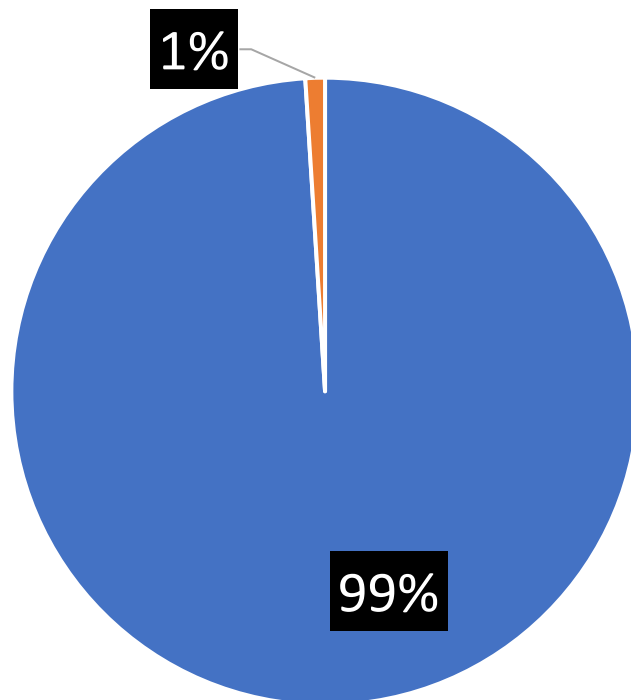




# Emission Contributions

## Acute Health Hazard Index

### Worker 1.17; Residential 1.01



- Formaldehyde (Cogen Engines)
- Acrolein (Cogen Engines, emergency diesel engine)

MEIW

MEIR



# Next Steps



**Encina must submit a Risk Reduction plan by June 3, 2024**

**District will evaluate and approve the plan if it demonstrates that risks will be reduced below the significant risk thresholds**

**Encina will notify and host a public meeting annually until the Risk Reduction Plan is fully implemented**

**Encina's toxic emissions will be re-evaluated every four years under AB2588. 2025 will be the next emissions year analyzed under this program.**







# ENCINA WASTEWATER AUTHORITY

- Biogas is a local renewable source of energy
  - Saves Agency \$3.5 million annually in electricity and heat costs
  - Provides backup power in case of outage
- Energy Resiliency Assessment is evaluating costs and benefits of options including:
  - Gas treatment
  - Fuel cells
  - RNG pipeline injection
- Capital Improvement Program assesses + funds needs across the facility



# Stay Informed

## Sign up for District Updates

- <https://bit.ly/SDAPCD-Updates>

## Visit District Hot Spots Page

- <https://sdapcd.org/hotspots>

**SDAPCD Air Toxic "Hot Spots" Mapping Tool**

**To use:** Select the dropdown menu to choose from the following informational maps and then click "Apply":

- "Approved HRA" - This option will show all facilities with an approved Health Risk Assessment (HRA), the HRA results, and related documents.
- "HRA in Progress" - This option will show all facilities required to conduct an HRA.
- "Areas of Impact" - This option will show the areas potentially impacted by toxic emissions from surrounding facilities for different types of selectable health risks.

**Click Apply**

Approved HRAs

HRA

Apply Reset

**Legend**

**SDAPCD Health Risk Assessment Data**

Approved HRA Results

- ★ Facility requires public notification and risk reduction
- Facility requires public notification only
- Health risks below notification threshold

HRAs in Progress

- ▲ HRAs that were requested

Isopleths

- ☐ Risk Notification Isopleth

Facility Boundary

- ☐ Facility Boundary

## Procedures & Guidelines

### Public Documents for "Hot Spots" Facilities

The facilities listed below are subject to the notification requirements of the "Hot Spots" program. Select a facility to see documents related to this program. The most recent facility documents below are also available when viewing a facility record in the SDAPCD Air Toxics "Hot Spots" Mapping Tool presented above.

BAE Systems Ship Repair - San Diego - 92113 - 2017

Pacific Ship Repair - San Diego - 92113 - 2019

Vulcan Materials (Carrol Canyon) - San Diego - 92126 - 2017

Superior Ready Mix (Escondido Asphalt) - Escondido - 92024 - 2019

Encina Wastewater Authority - Carlsbad - 92011 - 2017

Minnesota Methane - San Diego - 92111 - 2018

Vulcan Materials (Otay) - San Diego - 92154 - 2019

Otay Landfill - Chula Vista - 91911 - 2017

