



San Diego County Air Pollution Control District

Minnesota Methane San Diego LLC (Miramar Energy)

Public Meeting

November 12, 2025



Background Air Toxics “Hot Spots” Program



Background

Air Toxics “Hot Spots” Program

Health Risk Assessment

- As required by State law, Miramar Energy conducted a Health Risk Assessment based on emissions that occurred in 2018

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, Miramar Energy was required to conduct public notification and submit a risk reduction plan to the District



Miramar Energy



- Landfill Gas to Energy Plant
- 5244 Convoy Street, San Diego, CA 92111

Miramar Energy's Equipment



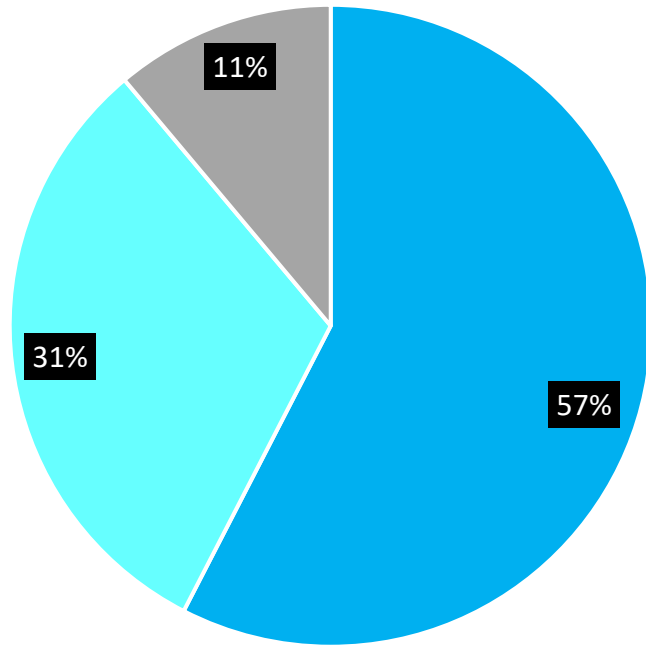
Elevated Health Risks Miramar Energy's 2018 Emissions

Health Risk	HRA Results	Risk Notification/ Reduction Thresholds	After Risk Reduction
Maximum Worker Chronic Health Hazard Index	1.82	1.0	<1.0
Maximum Worker Acute Health Hazard Index	20.86	1.0	<1.0



Emission Contributions

Worker Chronic Health Hazard Index 1.82

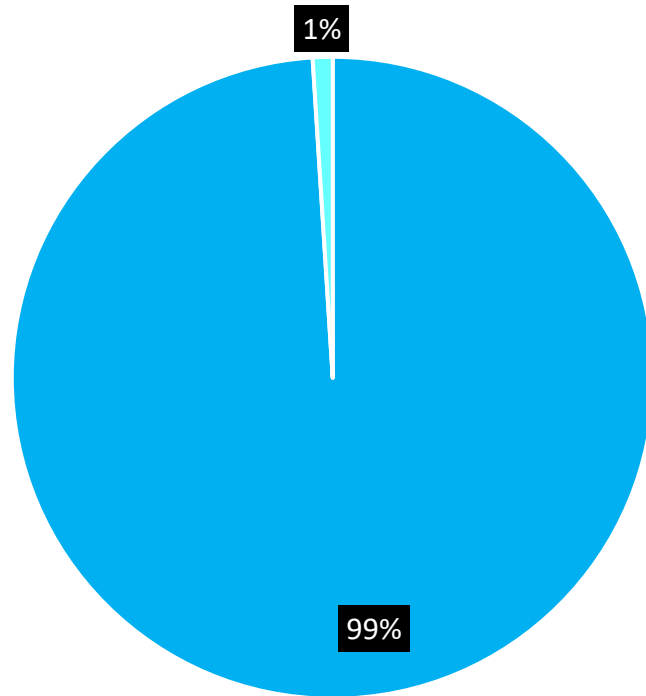


- Formaldehyde (Landfill gas fired engines)
- Arsenic (Landfill gas fired engines)
- Hydrogen Chloride (Landfill gas fired engines)



Emission Contributions

Worker Acute Health Hazard Index 20.86



■ Formaldehyde
(Landfill gas fired engines)

■ Arsenic (Landfill gas fired engines)



Miramar Energy's Risk Reduction Plan

Approved October 31, 2024

- Plan was submitted to the District, which proposes to as an option:
 - Install emission controls to reduce emissions
 - Specific design will be submitted to SDPACD in an application which will be reviewed prior to beginning installation

Installation Pending Contract Renewal

- Before installing controls, Miramar Energy must confirm renewal of gas rights contract, which expires at the end of 2026, or would shut down operations – or the City would implement the plan



Expected Control Techniques

- The specific plan is not finalized, but there are a variety of health risk reduction options, such as those listed below, to reduce health impacts
- Total 95 % reduction in health impacts needed
- Catalytic Controls
 - Removes air contaminants in engine exhaust
 - Similar technology to car catalytic converters
- Gas Treatment
 - Cleans gas before combustion
 - Removes contaminants and protects controls
- Combustion Design
- Dispersion Improvements



Next Steps

Miramar Energy will be informed by landfill operator of ultimate contract extension no later than end of June, 2026.

If contract extended, application to install controls along with all design specifications must be submitted by end of 2026, or earlier.

Controls must be fully installed and operational no later than one year after permit approval of design. Emissions will be verified with testing by 2028.

Quarterly progress reports and annual public notifications and meetings will continue until the health impacts are below the notification thresholds.

Health Impacts must be reduced below thresholds no later than November 1, 2029



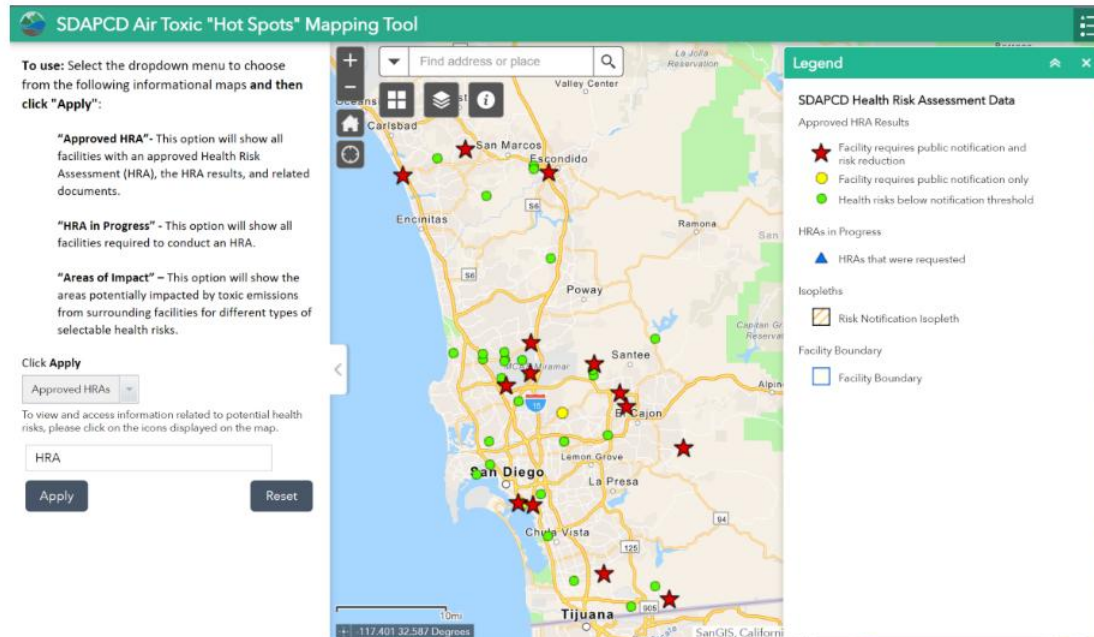
Stay Informed

Sign up for District Updates

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

Visit District Hot Spots Page

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



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

