



South Coast Air Quality Management District

PUBLIC NOTICE OF HEALTH RISKS FOR A FACILITY IN YOUR NEIGHBORHOOD

The following business in your neighborhood has been emitting toxic air pollutants that could potentially cause a risk to public health. Eco Services Operations Corp. (Eco Services) has been required to conduct a Health Risk Assessment (HRA) to evaluate how emissions are released and dispersed from Eco Services, and the potential impact those releases may have to public health.

Business Name	Location Address	Type of Business
Eco Services Operations Corp. (Eco Services)	20720 S. Wilmington Ave. Long Beach, CA 90810	Sulfuric Acid Manufacturing

SUMMARY OF HEALTH RISK ASSESSMENT

The approved HRA, which used 2017 data, showed that hydrogen sulfide emissions from Eco Services may cause an increased health risk for people who live and work in the immediate area as seen in the attached Facility Risk Map (Figure 1).

The attached information sheet provides additional background on the business, air pollutants and health risks. The following table shows the estimated, potential health risks from the 2017 Approved HRA.

	2017 Approved HRA
Highest acute risk (1-hour, non-cancer) for an individual that lives or works near the fence line	1.64 hazard index

For more information about South Coast AQMD programs to control toxic air pollution, please contact Victoria Moaveni of South Coast AQMD at (909) 396-2455 or vmoaveni@aqmd.gov. For more information about the facility, please contact John Richardson at 225-241-3156 or John.Richardson@eco-services.com.

**BUSINESSES RECEIVING THIS NOTICE SHOULD POST IT
WHERE IT IS MOST LIKELY TO BE READ BY EMPLOYEES.**





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2017 Approved HRA Facility Risk Map (Figure 1)

Eco Services Operations Corp.

(South Coast AQMD ID No. 180908)

Long Beach, California

Public Notification Area Map

Acute Hazard Index of 1.0 (blue contour)

Eco Services facility (red outline)



Public Notification Required if:

- Maximum probability of cancer for those living closest to the facility is greater than 10 chances in-one-million; or,
- Maximum probability of cancer for those working closest to the facility is greater than 10 chances in-one-million
- Long-term non-cancer health effects are greater than state health-based guidelines.
- Short-term non-cancer health effects are greater than state health-based guidelines





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INFORMATION SHEET

What are toxic air pollutants?

Chemicals that can cause cancer and other adverse health effects such as harm to the human respiratory system are known as toxic substances. When these toxic substances are released in the air, they are called toxic air pollutants. Toxic air pollutants come from a variety of sources including chemical plants, large manufacturers, businesses and cars and trucks. Many products used at home, such as cleaners and paint thinners also contain toxic air pollutants.

What toxic air pollutants does this facility emit?

Exposure to elevated concentrations of hydrogen sulfide can have potential cancer and non-cancer health risks. Long and short term health-based levels have been established by the California Office of Environmental Health Hazard Assessment (OEHHA).

The facility emits the following toxic air pollutants as a result of sulfuric acid manufacturing.

Pollutants	Possible Health Effects
Hydrogen sulfide	Short-term inhalation (1 hour) may cause headache, nausea, or physiological responses to odor

How was the health risk from this facility determined?

The 2017 Approved HRA used estimated amounts of pollutants released from operations at Eco Services. That information is inputted into a computer-based model that evaluates air quality dispersion and predicts air pollution concentrations throughout the community. The results are then measured against exposure levels determined by OEHHA to predict potential impacts to people's health.

OEHHA updated their health effects guidance in March 2015 to specifically include new information that provides more insight on how toxic air pollutants can have a greater impact on children than they do on adults. This newer methodology led to stricter health standards, which in turn resulted in health risk estimates that are approximately three times more conservative than those using previous methods. This method of determining risk may differ from other regulatory programs, such as public notification being carried out under Proposition 65.

What did the Health Risk Assessment find?

The 2017 Approved HRA for Eco Services was calculated using the highest one-hour concentration exposure assuming a person would be acutely exposed for one hour.

The 2017 Approved HRA, based on known information at the time, found that people in the area shown on the Facility Risk Map (Figure 1), if exposed for a one-hour period, would experience a maximum hazard index of 1.64 mainly due to hydrogen sulfide emissions from this facility. The risk is primarily due to sulfuric acid manufacturing.

What is being done to reduce the health risks from this facility?

South Coast AQMD Rule 1402 — Control of Toxic Air Contaminants from Existing Sources applies to facilities that exceed specific risk thresholds (e.g., cancer risk greater than 25 chances in-one-million) and requires the facility to submit a plan to reduce its risk below thresholds and implement this risk reduction plan within two and a half years after approval.

In this case, Eco Services is required to conduct only public notification. South Coast AQMD has also developed other programs designed to prevent pollution and reduce exposure to toxic air pollution, such as air toxic regulations specific to certain sources.

What is the cancer risk from toxic air contaminants in general?

The Multiple Air Toxics Exposure Study V (MATES V) presents estimates of cancer risk throughout South Coast AQMD's four county jurisdiction. The estimated risk for cancer from all toxic air contaminants emitted from all sources (cars, trucks, factories, power plants, etc.) is about 455 chances in-one-million.

How can I get more information?

Table ES-2 of MATES V Executive Summary, available at: <http://www.aqmd.gov/docs/default-source/planning/mates-v/mates-v-final-report-9-24-21.pdf>

A copy of South Coast AQMD's approved health risk assessment for Eco Services is available online at: <https://www.aqmd.gov/docs/default-source/planning/risk-assessment/eco-services/ecoservices-hra.pdf>

