



## UPDATED COMMUNITY NOTICE – 10/22/21

### Los Angeles County's Response to Odors Reported in City of Carson

As Los Angeles County Public Works continues working to address and monitor the issue in the Dominguez Channel in the City of Carson, intermittently elevated, but not toxic, concentrations (levels) of hydrogen sulfide, which smells like “rotten egg”, continue to be detected in the air in the surrounding areas. The smell is reportedly stronger and higher levels have been detected in the late evening and early morning in the areas next to the Channel, but the levels of hydrogen sulfide detected have significantly decreased over the last few days. The source continues to be considered as naturally decaying organic material (vegetation and marine life) at the bottom and sides of the Channel in Carson. As air monitoring of the surrounding areas continues, no other point sources for the hydrogen sulfide have been identified.

To reduce the odors, Public Work has implemented the following actions:

- **Neutralize the odor:** Maintenance crews are spraying a natural, water-based and biodegradable deodorizer in the channel to neutralize the odor within the channel.
- **Aerate the water:** Similar to a fish aquarium, a bubbler system will be used to inject millions of tiny oxygen bubbles into the water to increase the levels of dissolved O<sub>2</sub> in the channel and prevent the production of additional hydrogen sulfide gas.

As these treatments take effect, the levels of hydrogen sulfide are expected to decrease, and residents should be able to detect a noticeable difference in the strength or presence of the odors.

During this time, the South Coast Air Quality Management District (AQMD) continues monitoring the air quality and reporting levels detected, and Public Health, in consultation with AQMD, County Fire Health HazMat, and state and federal advisers, continue to evaluate and monitor the hydrogen sulfide levels reported and the actions recommended for the public and businesses to mitigate and prevent any health impacts. The results of air monitoring can be found on the AQMD's webpage for the [Dominguez Channel Odor Event](#) on their homepage at [www.aqmd.gov](http://www.aqmd.gov).

Please read the Center for Disease Control Agency for Toxic Substances and Disease Registry's fact sheet, [Hydrogen Sulfide – ToxFAQs](#), which answers the most frequently asked health questions (FAQs) about hydrogen sulfide.

Los Angeles County Department of Public Health (Public Health) continues to recommend the following for those that may be impacted by foul odors.

### RECOMMENDATIONS

While the effort to get rid of the odor continues, Public Health recommends you take the following actions to lessen your exposure and any symptoms experienced and to protect the health of you, your family, and your pets:

- 1) If symptoms feel life threatening, seek immediate medical care.
- 2) If symptoms are persistent, worrisome, or worsening, seek medical attention. Relocate to another area until odors go away. For assistance, call 2-1-1.
- 3) Avoid prolonged outdoor activities between the hours of 9:00 pm through 8:00 am and whenever odors are strong to reduce your exposure.
- 4) Keep doors and windows closed as much as possible to prevent outdoor odors from entering your residence or business. Air out your home/business when odors are not present.
- 5) If you have a central heating, ventilation, and air conditioning (HVAC) system, contact an air conditioning specialist, if needed, to determine if the air filters in your system may be replaced with High Efficiency Particulate Air (HEPA) or MERV-rated filters with activated charcoal (carbon) to improve the air quality inside. If you notice odors are stronger or symptoms are worse in the late evening or early morning hours (9:00 pm to 7am, try running your central HVAC system throughout the night, if you have not already. Temporarily relocating may be best if this does not help.



- 6) Use a certified portable HEPA indoor air filter with activated charcoal to improve air quality in your home. See some examples of portable HEPA indoor air filters with activated carbon below or on the reverse side for consideration. If you notice odors are stronger or symptoms are worse in the late evening or early morning hours (9:00 pm to 7am, try running your portable indoor air filter throughout the night, if you have not already. Temporarily relocating may be best if this does not help.
- 7) Keep pets indoors. If you notice any of the following in your pets, please contact your local veterinarian: difficulty breathing, vomiting, lethargy, or nausea.

**For businesses that may be impacted by the foul odors**, if you have noticed strong odors inside your building during the last week when opening in the morning, Public Health recommends businesses run their air-conditioning units 1-2 hours, if possible, before on-site operations begin. Doing so will increase air flow inside your business and help reduce any odors present that may have built up overnight.

People experiencing persistent, worrisome, or worsening symptoms from the odors are encouraged to contact their health care providers, especially if they have any chronic health conditions. People should also ensure that they have adequate supplies of their medications, especially if they have heart or lung conditions. In addition, Public Health recommends temporarily leaving the area where odors are present to alleviate health impacts.

*For more information on protective measures to prevent odors from entering the home, please contact the Public Health Community line at 626-430-9821 and leave a message with your contact information and your call will be returned. The message line will be checked every hour between 7 a.m. to 10 p.m. every day while odors persist.*

## ARE THE ODORS HARMFUL TO MY HEALTH?

Hydrogen sulfide is a colorless gas that has a very strong odor (like “rotten egg”). Its smell can be noticed and cause temporary mild to moderate symptoms well below the detection limit on typical equipment [1 part per million (ppm) or 1000 parts per billion (ppb)]. Everyone should take steps to reduce their exposure when the odors are present. The health effects of hydrogen sulfide can vary depending on the level and duration of exposure, such as asthma, COPD, or heart disease. If symptoms are persistent, worrisome, or worsening, people should seek medical attention and take steps to reduce their exposure to the odors or temporarily relocate to another area until odors go away.

Please read the Center for Disease Control’s Agency for Toxic Substances and Disease Registry’s fact sheet, *Hydrogen Sulfide – ToxFAQs*, which answers the most frequently asked health questions (FAQs) about hydrogen sulfide.

## REIMBURSEMENT PROGRAM

If you live in the areas of Carson or West Carson, or the surrounding vicinity, County Public Works has a reimbursement program for the purchase of HVAC air filters, portable HEPA air filters, or for temporary relocation. during this public nuisance event. Please review the recommendations and guidance on “Air Cleaners and Filters to Improve Indoor Air Quality and Remove Odors” below before purchasing filters. Visit <https://lacounty.gov/emergency> for more information on the reimbursement program. Click [here](#) to submit for reimbursement. For assistance, call 2-1-1.

### Air Cleaners and Filters to Improve Indoor Air Quality and Remove Odors

Air filters, as described above, designed for use in HVAC systems, if properly configured and maintained, may have the greatest potential to improve your entire home’s air quality because most HVACs circulate very large volumes of filtered air throughout the home.

Portable units are usually best for single room use, rather than multiple room or whole-house use, because of their limited capacity to circulate large volumes of filtered air.

### How to Choose an HVAC Air Filters with activated carbon

These are available for purchase online, e.g., through Amazon or Walmart, and at local stores. You must choose the correct sized filter for your HVAC system. 1) Check your furnace manual for the correct sized filter or check the existing filter to determine dimensions. Most filters have the size prominently displayed on the surface in numerous



places. 2) Look for filters designated as HEPA or that are Minimum Efficiency Reporting Value (MERV)-rated. The higher the value, the more particles are removed. 3) Look for filters with activated charcoal or activated carbon. They are commonly labeled as “odor eliminator”, “odor control”, or “odor reduction.”

**Some Examples of Certified Portable Air Filters/Cleaners, as listed by the California Air Resources Board (CARB)**

Brand	Model Name	Model Number	Type	Date Notified	EO Number
Aireox	Model 45x	45B	Mechanical	2020-01-23	G-20-009
Levoit	Tower Pro HEPA Air Purifier	LV-H134	Mechanical	2019-06-05	G-19-086
Winix	5300-2	5500-2	Electronic	2016-04-20	G-16-053
GermGuardian	Air Purifier	RAC5250PT	Electronic	2018-12-14	G-18-136

These are just listed as examples; other brands and models of portable HEPA filters with activated carbon/charcoal exist. The ones listed were found to be available on online and at local stores.

**CARB Certification**

State regulation requires all air cleaners sold or distributed in California to be certified as not exceeding 50 parts per billion of ozone when tested using a specified test method. CARB offers a list of [certified air cleaner models](#) on its web page. Note that this certification only covers ozone emissions and electrical safety; it does not include performance testing for removal of particles or chemicals from the airstream.

**HOW DO I REPORT ODORS?**

If you notice “rotten egg” or “sulfur” odors, you can continue to report them online with South Coast Air Quality Management District at <http://www.aqmd.gov/home/air-quality/complaints>, or by telephone at 1-800-CUT-SMOG (1-800-288-7664).

