

February 16, 2023

TO: Members of the Facility & Plan Review Subcommittee
Los Angeles County Solid Waste Management Committee/
Integrated Waste Management Task Force

FROM: Alexander Castro, Staff

**REVISED STAFF REPORT
SUNSHINE CANYON LANDFILL COMMUNITY ADVISORY COMMITTEE DATA REVIEW
REPORT AND HEALTH RISK ASSESSMENT**

On January 18, 2023, the Sunshine Canyon Landfill – Community Advisory Committee (SCL-CAC) transmitted the ECorp Consulting, Inc. Data Review Report and Health Risk Assessment (Report) for the Sunshine Canyon City/County Landfill (Landfill), dated September 2022. The objective of the Report is to determine the incremental increase in particulate matter (PM) concentration in the area surrounding the Sunshine Canyon Landfill (SCL) and discuss potential health risk associated due to operations at said facility. This Staff Report summarizes the data, findings, and potential health risk associated as stated in the report.

The report analyzed two types of PM: PM with an aerodynamic diameter under 10 micrometers (PM₁₀) and PM generated from operation of diesel equipment or diesel particulate matter (DPM), generally under one micrometer. The Report utilized over 10 years of PM₁₀, DPM and wind monitoring data provided by the Landfill in conjunction with calculated emissions and dispersion modeling to estimate the contribution of both DPM and PM₁₀ from the SCL in the surrounding community.

Monitored PM₁₀ data and modeled concentrations both showed that activities at the SCL resulted in measurable concentration increases of over the 2.5 µg/m³ (micrograms per cubic meter) threshold established by the local air quality control officer (South Coast Air Quality Management District) and occasionally resulting in exceedances of the 50 µg/m³ 24-hour California Ambient Air Quality Standard (CAAQS).

The analysis of modeled and monitored concentrations and health risk reported that operations at the SCL result in a significant incremental contribution to PM₁₀ concentrations and elevated health risk in the surrounding community. Wind monitor data was derived using a correlation of local SCAQMD sites and Ventura County Air Pollution Control Districts in comparison to the SCL Van Gogh Elementary Site. Data problems with the SCL wind sensors made modeling of multiple scenarios necessary. For the purposes of this Report a health conservative approach is taken, thus the “worst-case” results are presented. The Report also states that an “Upwind” Monitoring Site at the SCL is vital to properly quantify the full amount of PM₁₀ and DPM emissions generated at SCL.

Staff recommends Public Health and South Coast Air Quality Management District review and analyze the Report and provide findings to the Task Force.