



Salton Sea Air Monitoring

Monitoring & Analysis Division

Salton Sea was identified as an air quality priority by the Eastern Coachella Valley (ECV) Community. The community has expressed concerns about odors and dust emissions from the Salton Sea.

Working very closely with the Community Steering Committee (CSC), South Coast AQMD staff developed the following Community Emission Reduction Plan (CERP) and Community Air Monitoring Plan (CAMP) strategy to address this air quality priority and to support efforts that reduce exposure to air pollution.

Dust Characterization Study

- Mecca Air Monitoring Station
- Objective: Identify the source of PM (i.e., Distinguish between PM/dust from desert and Salton Sea)
- The Mecca air monitoring station was enhanced by adding several continuous monitors and filter samplers for this study



Expand the H₂S Monitoring Network

- The network provides real-time data that can be used to assess population exposures in case of odor events and for comparison to the state standard for H₂S
- The network was expanded by adding an H₂S monitor at Indio and North Shore air monitoring stations
- Data from these monitors are used in South Coast AQMD's subscription-based notification system: <https://saltonseador.org/>



Expand the PM₁₀ Monitoring Network by Establishing an Air Quality Sensor Network

- The network provides real-time PM data and expands the reach of the PM monitoring network already in place in ECV
- Locations for sensor deployment were selected based on CSC input
- Air quality sensors are co-located with reference monitors at South Coast AQMD monitoring stations to verify sensor performance



Dust Characterization Study



Sample Collection
+
Laboratory Analysis

6 Samplers



Continuous Measurements

8 Continuous Monitors

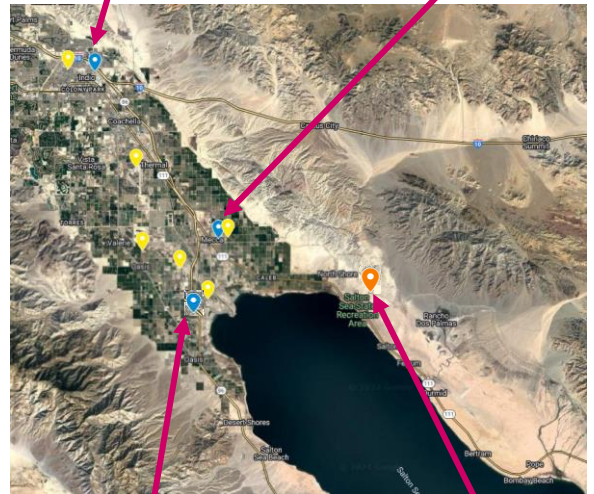
- Study measurement period from Jan 2022 – May 2023
- Continuous measurements are ongoing
- Filter sampling will resume in early 2025 as part of the next Multiple Air Toxics Exposure Study, MATES VI

Indio Air Monitoring Station

Continuous measurements of H₂S and PM
December 2020 to Present

Mecca Air Monitoring Station

Continuous measurements of PM, Metals, Black Carbon, Organic Carbon, Ammonia, H₂S, NO₂, O₃
December 2020 to Present



Near-Shore Air Monitoring Station

Continuous measurements of H₂S and PM
December 2020 to Present

North-Shore Air Monitoring Station

Continuous measurements of H₂S and PM will be added



Air monitoring station



Air sensor location