MATES – Overview of goals, previous studies, and timeline

PRESENTER: JO KAY GHOSH, PHD
MATES V TECHNICAL ADVISORY GROUP MEETING
JULY 6, 2017
MATES Program Overview

PURPOSE: To evaluate regional air toxics health risks in the South Coast Air Basin

- Governing Board
- Environmental Justice Initiative
- Carcinogenic risk from exposure to air toxics
- Cumulative impacts approach

Air monitoring

Estimate air toxics cancer risks

Emissions inventory
Previous MATES studies

MATES I • 1986-1987

MATES II • 1998-1999

MATES III • 2004-2006

MATES IV • 2012-2013

MATES IV
• >50% decrease in cancer risk from air toxics since MATES III
• Diesel emissions declined by 70% since MATES III
• Diesel PM accounted for 2/3 of air toxics cancer risk
• Continuous UFP and black carbon measurements
• Implemented 2015 OEHHA risk assessment guidelines
Proposed MATES V

- Fixed station monitoring:
  - 10 stations
  - Continuous UFP and Black Carbon measurements
- Emissions inventory update
- Regional modeling
- Risk characterization
- Local Scale and Enhanced Monitoring - proposed focus on refineries and EJ areas
Proposed Timeline

- Draft workplan for fixed sites – July 2017
- Technical Advisory Group meetings – July 2017 and TBD
- Final workplan for fixed sites – Aug 2017
- Fixed site monitoring – January – December 2018
- Finalize Inventory protocol – Mar 2018
- Finalize Modeling protocol – Mar 2018
- Preliminary Modeling and Risk Estimates – June 2019
- Final Report – Fall 2019