South Sacramento/Florin Community Air Protection

Steering Committee Meeting
Tuesday, May 25, 2021
<table>
<thead>
<tr>
<th>Time</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 – 6:20 pm</td>
<td>Welcome &amp; Administrative Items</td>
</tr>
<tr>
<td>6:20 – 6:25 pm</td>
<td>District Update</td>
</tr>
<tr>
<td>6:25 – 6:40 pm</td>
<td>Recap Discussion on Land Use and Air Quality Impacts</td>
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<tr>
<td>6:40 – 7:00 pm</td>
<td>Outreach Subgroup Report Back</td>
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<tr>
<td>7:00 – 7:40 pm</td>
<td>Air Monitoring Data/Phase 3 Location Discussion</td>
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<tr>
<td>7:40 – 7:50 pm</td>
<td>New Business and Future Agenda Topics</td>
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<td>7:50 – 8:00 pm</td>
<td>Public Comments</td>
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<td>8:00 pm</td>
<td>Adjourn</td>
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Logistics

• Staff is available if you have technology trouble; please email AB617Clerk@airquality.org

• You can message the host or co-host if you are having technical difficulties.

• During the Steering Committee discussion period or during Public Comment period, each person who wants to speak will need to raise their virtual hand:
  • On Zoom web application – Click either Participants or Reactions, then press “Raise hand”
  • On the phone – Dial *9 to raise your virtual hand.
  • Please state your name and affiliation.

• When you are called – Please unmute yourself on the app or the phone (press *6)

• Email public comments to Clerk of the Committee at AB617Clerk@airquality.org
Administrative Items

1) Approve previous meeting notes
District Updates (5 minutes)
- New District SEP Program
- Reminder on Annual Required Documents
Supplemental Environmental Projects (SEP)

- SEP = a project that benefits air quality and public health
- Up to 50% of a penalty can go to a SEP (violator decides)
- District currently has funding available for SEPs
- Opening Public Solicitation: **June 1 to July 30, 2021**
- Information packet will be sent to Steering Committee
Recap: Land Use and Air Quality Impacts
(15 minutes)
Air Quality Sources
Sac Metro Air District Land Use = Lower Impacts from Emissions

Two paths to this:
1. Lower Emissions at the Source
2. Reduce Exposure to Emissions
## Lower Emissions at the Source

<table>
<thead>
<tr>
<th></th>
<th>Land Use Role</th>
<th>Source</th>
<th>Infrastructure</th>
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</thead>
<tbody>
<tr>
<td>Fewer Vehicle Trips</td>
<td>Promote walk, bike, roll, &amp; transit</td>
<td></td>
<td>Transit, sharing, pooling, hubs</td>
</tr>
<tr>
<td>Shorter Vehicle Trips</td>
<td>Plan land uses closer together</td>
<td></td>
<td>Street design, land use patterns</td>
</tr>
<tr>
<td>Cleaner Vehicles</td>
<td>Plan infrastructure</td>
<td>Low emission and alternative fuels, engine technology</td>
<td>EV Chargers, Hydrogen fueling</td>
</tr>
<tr>
<td>Building Efficiency</td>
<td>Require efficient technology</td>
<td>Heating, cooling, appliances</td>
<td></td>
</tr>
<tr>
<td>Cleaner Operations</td>
<td>Promote cleaner technology</td>
<td>Low emission equipment</td>
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## Reduce Exposure to Emissions

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<tr>
<td><strong>Move Source</strong></td>
<td>Zoning / Land Use designation</td>
<td>Encourage rerouted trips, moved emitters, and separated future emitters</td>
</tr>
<tr>
<td><strong>Move People</strong></td>
<td>Design</td>
<td>Sidewalks, bike lanes, on street parking, separate land uses</td>
</tr>
<tr>
<td><strong>Block Exposure</strong></td>
<td>Design</td>
<td>Trees, shade, etc</td>
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</table>
## Lower Impacts from Emissions

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<thead>
<tr>
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<tbody>
<tr>
<td>Vehicle Trips</td>
<td>Walk, bike, roll, and transit, plan destinations closer together</td>
<td>Transit, rideshare, carpool, vanpool, Transportation Network company (TNC), mobility hubs</td>
</tr>
<tr>
<td>Cleaner Vehicles</td>
<td>Plan infrastructure</td>
<td><strong>Low emission and alternative fuels, engine technology</strong></td>
</tr>
<tr>
<td>Move Source</td>
<td>Zoning / Land Use designation, Reroute</td>
<td>Reroute Trips</td>
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Add solar-powered lighting and shelter to 11 bus stop sites
Photo shows (WB) Sheldon Blvd at Freesia Dr in Elk Grove
Outreach Subgroup Report Back
(20 minutes)
Data Presentation from Phase 2 of Community Air Monitoring
(40 minutes)
Review: Big Picture Timeline

- Community Air Monitoring Plan (CAMP) Development
- CAMP Adopted
- Phase 1 data available (on-going)
- Phase 2: EPA Grant Project (cont. Phase 2)
- Phase 3: Determine Community Pollution levels and refine strategies to target emissions
- Outreach and Pre-CERP/Local Solution Work

Timeline:
- 2019
- July 2020
- Summer 2021
- Winter 2021-2022
- 2022-2023

Other Partners:
- Sac Air District
- Local Jurisdictions: City of Sacramento, County of Sacramento
- Other Partners
3 Phase Monitoring Approach

Phase I
Deploy 22 sensors

Phase II
Deploy 6 stand alone monitors

Phase III
Deploy 1 Mobile Laboratory
Recap: Phase 1 PM2.5 Monitoring

Summary:
- 21 sites, 22 sensors
- Helps increase air quality awareness
- All sites generally had similar levels

Data is displayed at: http://www.airquality.org/Air-Quality-Health/Community-Air-Protection/Community-Air-Monitoring
Phase 2 Monitoring

Where?
• 6 sites

What is being monitored?
• Toxic metals — Discussed at February 2021 meeting
• Toxic gases (VOCs)
• Black carbon

Why?
• Compare the 4 priority areas to pick the Phase 3 Mobile Laboratory location
Recap: Preliminary Results from Phase 2 – Toxic Metals

- VFW Post and Impact Church had one PM2.5 reading higher than the federal standard
- No sites were above the health standard for lead
- VFW Post - Highest average concentration for PM2.5 and most metals
What are Volatile Organic Compounds (VOCs)?

- Volatile Organic Compounds (VOCs) are a category of hundreds of gaseous air pollutants
- Some VOCs have known adverse health effects, including cancer, while others do not
- VOCs are regulated by local, state and federal regulations
Volatile Organic Compounds (VOCs)

Exposure to VOCs can cause:

- **Short-term**
  - Dizziness
  - Headache
  - Eyes, nose, throat irritation

- **Long-term**
  - Damage to liver, kidney, or central nervous system
  - Increased risk of cancer (carcinogenic)

Benzene
- Gas stations
- Cigarettes

Methylene chloride
- Hairspray
- Paint stripper

Xylene
- Paints
- Inks
- Adhesives
Toxic VOC data

• Analyzed for 117 pollutants
• 24 sample days (124 valid samples)
  • August 2020 – February 2021
• Wildfire impacts Aug-Oct 2020
• For each pollutant and site:
  • highest average concentration
  • maximum concentration
Toxic VOC data – Preliminary Findings

- Two highest sites*
  - ★ VFW Post (Area 1)
  - ★ Impact Church (Area 2)
    - Excluding wildfire days
- VFW Post

* Using the EPA Compendium Method TO-15 for determination of VOCs in air collected in specially-prepared canisters and analyzed by gas chromatography/mass spectrometry (GC/MS);
Black Carbon

- Black carbon is a part of PM2.5
- Primarily from cars, trucks, forest fires, fireplaces, etc.
Black Carbon AB617 data

Black Carbon Weekly Average

- Consumnes River College (AB617)
- Impact Church (AB617)
- Sump 50 (AB617)
- Station 56-A (AB617)
- Station 56-B (AB617)
- VFW (AB617)
- Del Paso Manor (permanent, regulatory-grade monitor)

Note: The black carbon monitor at Florin Elementary School malfunctioned and did not collect any data.
Black Carbon in the AB 617 Area

1. Station 56 Site
   – Higher in August/September, needs further investigation
   – Slightly higher than other sites after September

2. All sites trend up and down with each other
Summary of Highest Sites

Low-Cost Sensors
All sites had similar levels

<table>
<thead>
<tr>
<th>PM2.5</th>
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<tbody>
<tr>
<td>Station 56</td>
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<tr>
<td>VFW Post</td>
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Next Step:
Recommendation for placement of the Phase 3 Mobile Laboratory
Discussion and Observations

• Monitoring and analysis:
  – On-going process
  – EPA grant extended monitoring, more information to come at all six locations

• Location recommendation:
  – Can be revisited after monitoring 6+ months plus time for data review
  – On-going process
Discussion and Observations

• Phase 3 monitoring:
  – Ozone
  – Carbon Monoxide (CO)
  – Nitrogen Dioxide (NO2)
  – Weather
  – Particulate Matter 2.5 (PM2.5)
  – Black Carbon
  – Toxic Metals
  – Toxic Gases
Discussion and Observations

1) Consistent with SC member areas of concern: Area 1
2) Sampling for toxics generally was higher at VFW, which is in the central part of the community
3) Near the freeway, within half mile

What should we consider for the Phase 3 location?
- Monitoring at where we see highest readings? Or closer to where people live and play?
- Within half mile to a 1 mile from freeway?
- Area 1 – closer to VFW? Or Station 56?

Other things to consider?
New Business and Future Agenda Topics (10 minutes)
- CARB’s Community Air Grant Opportunity
# Brainstorm – June Agenda Topics?

<table>
<thead>
<tr>
<th>Tentative Agenda Items?</th>
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<tbody>
<tr>
<td>Continued Phase 3 Location Discussion</td>
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<td>AB 617 Program Budget Update</td>
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<table>
<thead>
<tr>
<th>Potential Additional/Future Topics</th>
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<tbody>
<tr>
<td>Outreach – further discussion</td>
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<tr>
<td>Discussion with Elected Officials (Depending on availability)</td>
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<tr>
<td>Next Steps/Emission Reduction Solutions (Pre-CERP) discussion:</td>
</tr>
<tr>
<td>a) Emission reduction strategies &amp; solutions</td>
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<tr>
<td>b) Subgroup?</td>
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<tr>
<td>Partnership building: City planning? County Planning?</td>
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<tr>
<td>Health care? Education? Industry? Transportation?</td>
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<td>Urban Heat Island presentation</td>
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Public Comments
(10 minutes)

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Next Meeting Date: Tuesday, June 22, 2021