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I-710 Corridor Project EIR/EIS

metro.net

Air Quality / Health Risk Assessment Protocol Status Report

I-710 TAC and CAC Meetings January 21, 2009



Air Quality/Health Risk Assessment Protocol

- **Protocol Objectives:**
 - To ensure transparency and allow communication on technical issues between stakeholders
 - To facilitate consensus on the technical approach
- **Key Topics:**
 - Study area and zone of impact
 - Emissions
 - Dispersion modeling – model choice and scope
 - Health risk assessment scope
 - Other analyses
- **Agency / Stakeholder Outreach and Comments**

Project Operations (Traffic)

- **Air Quality Analysis of Criteria Pollutants**
 - Emissions quantification
 - Conformity analyses for particulate matter and carbon monoxide
 - Qualitative for particulate matter, pending new guidance
 - Local “hotspot” dispersion modeling for carbon monoxide
 - Air dispersion modeling
 - Full dispersion modeling for ambient air quality impacts
- **Discussion Points**
 - SR-47 analysis
 - EPA has offered beta version of AERMOD that may better simulate dispersion from roadways
 - Final model choices to be discussed with air and other agencies

Project Operations (Traffic)

- **Health Risk Assessment**
 - Emissions quantification: mobile source air toxics and possibly other toxic air contaminants
 - Use of full dispersion modeling
 - Results: acute and chronic (non-cancer) hazard indices, cancer risk, cancer burden
- **Discussion Points**
 - 6 priority mobile source air toxics or full list
 - Localized areas may need further analysis
 - Agency comments expected later this week

Other Analyses

- **Project Construction Impacts**
 - Criteria pollutant emissions quantification
- **Greenhouse Gases**
 - Emission quantification for traffic
 - Environmental SWG member asked to what extent will indirect “life-cycle” emissions (e.g. cement/concrete production) be quantified
- **Cumulative Impacts**
 - In addition to qualitative discussion, I-710 and I-5 Project cumulative impacts will be quantified
- ❖ **PM Mortality Qualitative Analysis**
- ❖ **Ultrafine Particulates (particles less than 0.1 microns)**
 - Environmental SWG members raised the issue
 - Qualitative analysis can be done

Protocol Outreach and Next Steps

- **Agency Air Technical Working Group**
 - Met November 4th to discuss Protocol
 - Members reviewing draft-in-progress Protocol
 - Meeting January 22nd to discuss technical comments and finalize draft Protocol for wider distribution
- **Environmental Subject Working Group**
 - Met January 14th to discuss AQ/HRA elements
 - Upcoming meeting will discuss draft Protocol
- **Corridor Advisory Committee**
 - Met October 15th and will receive this status report this evening
- **Draft Protocol**
 - Will be presented to the TAC, SWG, CAC for comments when agency commenting is complete