

# Scoring Criteria

35% Emission Reduction

35% Cost Effectiveness

15% Vehicle Miles Traveled Reduction

15% Land Use/Category Specific

# Total Emissions Reduction (35%)

<u>Points</u>	<u>VOC + NOx Reduction (kg/proj life)</u>
0	0 – 14,999
7	15,000 – 34,999
14	35,000 – 74,999
21	75,000 – 124,999
28	125,000 – 199,000
35	200,000 and above

# Total Emissions Reduction (Qualitative Projects)

## Qualitative Assessment of AQ Benefits:

- Low (7 pts) – 15,000 kg emissions reduction assumed
- Medium (21 pts) – 75,000 kg emission reduction assumed
- High (28 pts) – 125,000 kg emission reduction assumed

# Cost Effectiveness (35%)

<u>Points</u>	<u>Cost Effectiveness (CMAQ\$/kg)</u>
0	300 and above
7	225 – 299
14	150 – 224
21	100 – 149
28	50 – 99
35	0 – 49

# Vehicle Miles Traveled Reduction (15%)

<u>Points</u>	<u>VMT Reduction/Project Lifetime</u>
0	0
5	1 – 499,999
10	500,000 or more

# Land Use/Category Specific (15%)

## Factor 1: All Projects

- Supports redevelopment, infill development, and mixed-use development in existing town centers, activity centers, established neighborhoods and/or a ¼ mile area around transit stations currently served by public facilities by constructing new or improving existing transportation facilities within these areas.

# Land Use/Category Specific (15%) (Cont.)

## Factor 2: Project-type Specific

- *Traffic Flow: Accessibility* – improves safety and access for all modes.
- *Transit*: Increases connectivity.
- *Bike/Pedestrian*: Increases connectivity.
- *Alternative Fuel*: Reduces emissions by promoting alternative fuels.
- *Outreach/Other*: Supplements or enhances the benefits of previously funded CMAQ projects to avoid duplication or incompatibility.

# Transit

Example: Purchase new buses

Emissions equation: (number of new buses\*  
(new bus ridership\*bus trip length\*auto  
emission factor (35mph)\* new ridership  
factor) – (bus trip length\*bus emission  
factor))\*# transit days\*project life

VMT equation: (number of new buses\*(new  
bus ridership\*bus trip length\*new ridership  
factor)-bus trip length))\*#transit  
days\*project life

# Traffic Flow

Example: Intersection improvement

Emissions equation: (peak percent\*(pre-project stopped delay\*pre-project ADT\*idle emission factor)-(post-project stopped delay\*post-project idle emission factor))\*# days\*project life

VMT equation: N/A

# Alternative Fuels

Example: Vehicle replacement

Emissions equation: (# vehicles \* ((average VMT/Auto \* emission rate (35mph)) - (average VMT/auto \* alt.fuel emission rate (35mph) \* alt. Fuel emission correction factor)) \* # days \* project life

VMT equation: N/A

# Bicycle - Pedestrian

Example: Construct new bicycle facility

Emissions equation: # bike riders/day \* Ave.  
bike trip length \* 2 \* emissions factor  
(35mph) \* # days \* project life

VMT equation: # bike riders/day \* Ave. bike  
trip length \* 2 \* # days \* project life

# Outreach/Other

Example: Promotional activity

Emissions equation: # auto trips removed\*  
ave trip length\*auto emissions factor (35  
mph)\*#operational days\*project life

VMT equation: # auto trips removed\*ave trip  
length\*#operational days\*project life