

Agenda Item No. 2(b)

**TCEQ Executive Director's Designation Recommendations**

**Austin.** **Travis** County contains the area's federal regulatory design-value monitor with a reading of 80 parts per billion for 2005 through 2007. Mobile sources make up 78 percent of 2005 NO<sub>x</sub> emissions from the five-county MSA. More than 12 percent of the Travis County workforce commutes from **Williamson** County. Historical wind patterns indicate that ozone was transported from Williamson County to Travis County on more than five days with high ozone during the seven year period. Mobile and stationary emissions and commuting from the three remaining MSA counties (**Bastrop**, **Caldwell**, and **Hays**) are relatively insignificant. **Recommendation:** Travis and Williamson. **(NOTE: Commissioners decided to exclude Williamson County from nonattainment recommendation on December 10<sup>th</sup>)**

2008 Eight-Hour Ozone Standard 0.075 Parts Per Million (75 Parts Per Billion) Decision Matrix for Blue Counties														
PLANNING AREA <sup>1</sup>	EMISSIONS INVENTORY Stationary Source 2005 tpd		EMISSIONS INVENTORY Mobile Source 2005 tpd		TRAFFIC % share of core county workforce	MET Historically upwind of design value monitor on high ozone >75 ppb days?	DENSITY Houses per sq. mi. Population per sq. mi.	DESIGN VALUE 2005-07	DESIGN VALUE 2006-08 (as of 11/3/08)	4 <sup>TH</sup> HIGH (ppb)				EXECUTIVE DIRECTOR RECOMMENDATION Nonattainment?
	'05	'06	'07	'08										
<b>AUSTIN</b>														
Travis	NOx 11.77	VOC 55.39	NOx 61.42	VOC 33.14	75.67	Monitor: CAMS 03 Northwest	H - 339.5 P - 821.1	80	77	82	82	76	74	Yes
<b>Bastrop</b> <sup>2</sup>	NOx 3.58	VOC 5.91	NOx 6.14	VOC 2.95	2.53	YES	H - 25.1 P - 65.0 N							NO
<b>Caldwell</b>	NOx 4.53	VOC 12.98	NOx 3.71	VOC 2.06	0.94	YES	H - 21.8 P - 59.0 N							NO
<b>Hays</b> <sup>3</sup>	NOx 7.78	VOC 6.88	NOx 11.69	VOC 5.45	3.80	YES	H - 52.6 P - 144.0 N							NO
<b>Williamson</b> <sup>4</sup>	NOx 0.54	VOC 17.43	NOx 21.76	VOC 9.81	12.76	YES	H - 80.4 P - 222.0 N							YES

**NOTES**

- **DV:** Design value is 3 years of quality assured data; it is the average of each year's 4<sup>th</sup> highest value.
- **PPB:** parts per billion versus **PPM** parts per million: the 2008 eight-hour ozone standard is 0.075 parts per million; it can also be expressed as 75 parts per billion.
- **TPD:** tons per day
- **MSA** Metropolitan Statistical Area: a county-based area with a population nucleus of 50,000, and adjacent communities with a high degree of integration with that nucleus; it is a statistical representation of the social and economic linkages between urban cores and outlying, integrated areas. It is set by the federal Office of Management and Budget.
- **Emissions Inventory (EI)** column is 2005 ozone season daily emissions, June, July, August Monday thru Friday, reported to EPA per the Consolidated Emissions Reporting Rule. Stationary sources include point and area sources; drilling rig emissions are included. Mobile source emissions include on-road and non-road sources.
- **Traffic** column is the percent commuting contribution of each county to an area's core county, i.e., counties with design value monitors. The value is the percent of commuters from each county relative to the total number of people who work in the core counties. Worker residence and workplace locations are from the 2000 Census, U.S. Department of Commerce, Census Bureau, Population Division, Journey-To-Work county-to-county worker flow files.
- **MET (meteorology)** column uses surface wind data to calculate prevailing surface winds in which high ozone days exceed 0.075 parts per million. (This does not reflect wind patterns the majority of the time. This indicates that at least 5 times during a 7-year period (2000-2006), winds impact the design value monitor.)
- **Density:** Density per square mile of land area for population and housing is from the 2000 Census, U.S. Department of Commerce, Census Bureau.

**DECISION CUTPOINTS**

- Stationary Source EI: if significant emissions in [decision counties](#) are upwind of design value monitor on high ozone days, >75 ppb, then yes.
- Mobile Source EI: if significant emissions in [decision counties](#) are upwind of the design value monitor on high ozone days, >75 ppb, then yes.
- Traffic: if % [decision-county share](#) of core county workforce is significant, then yes.
- Met: If at least 5 times during a 7-year period (2000-2006) surface winds impact design value monitor, then yes.
- Density: If [decision county](#) is greater than 50% of the core county in housing and population density, then yes.

END NOTES

<sup>1</sup> EPA March 27, 2008, Federal Register publication of the 2008 eight-hour ozone standard refers states to its March 28, 2000, boundary guidance memorandum: the presumed nonattainment area boundary is the Metropolitan Statistical Area (MSA) where a monitor has a design value that exceeds the eight-hour ozone standard.

<sup>2</sup> The McKinney Roughs monitor in Bastrop County is run by the CAPCOG. It is not a regulatory monitor. The 06-08 DV is 71 ppb. The 4<sup>th</sup> high in 2006 was 71 ppb, in 2007 was 72 ppb, and in 2008 is 70 ppb.

<sup>3</sup> The San Marcos monitor in Hays County is run by the CAPCOG. It is not a regulatory monitor. It started collecting data in 2006. The 06-08 DV is 67 ppb; the 4<sup>th</sup> highest in 2006 was 71 ppb. In 2007 was 66 ppb, and in 2008 is 66 ppb. The CAPCOG's Dripping Springs School monitor is not a regulatory monitor; the 05-07 DV is 69 ppb and the 06-08 DV is 67 ppb; the 4<sup>th</sup> highest in 2005 was 72 ppb, in 2006 was 72 ppb, in 2007 was 65 ppb, and in 2008 is 66 ppb.

<sup>4</sup> The CAPCOG has 2 nonregulatory monitors in Williamson County. The Round Rock C614 monitor has a 06-08 DV of 72 ppb; the 4<sup>th</sup> high in 2006 was 76 ppb, in 2007 was 71 ppb, and in 2008 is 69 ppb. Lake Georgetown monitor started data collection in 2007: the 4<sup>th</sup> highest in 2007 was 57 ppb, and in 2008 is 69 ppb.

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Source: TCEQ, "Decision Rationale for Matrix, 2008 Eight-Hour Ozone Standard of 0.075 parts per million (or 75 parts per billion), Boundary and Designation Determination Recommendation, by Air Quality Planning Area"

State of Texas  
2008 Eight-Hour Ozone Standard of 0.075 parts per million  
Designation Recommendation

The following counties, listed by air quality planning area, should be designated nonattainment. All the rest of the counties in Texas should be designated attainment/unclassifiable.

**Austin-Area**

Travis

**Beaumont-Port Arthur Area**

Hardin

Jefferson

Orange

**Dallas-Fort Worth Area**

Collin

Dallas

Denton

Ellis

Hood

Johnson

Kaufman

Parker

Rockwall

Tarrant

**El Paso County** with the exception of tribal lands, i.e., Ysleta Del Sur  
Reservation or Trust Lands

**Houston-Galveston-Brazoria Area**

Brazoria

Chambers

Fort Bend

Galveston

Harris

Liberty

Montgomery

Waller

**San Antonio Area**

Bexar

**Tyler Area**

Gregg

Rusk

Smith