AIR QUALITY CONFORMITY ASSESSMENT of the

2011 Constrained Long Range Plan (CLRP)

Item XX
Transportation Planning Board
October 19, 2011

TECHNICAL APPROACH

- **❖** Version 2.3 Travel Demand Model- **NEW!**
- * 3722 TAZ Area System- NEW!
- * Round 8.0a Cooperative Forecasts- **NEW!**
- Mobile 6.2 Emissions Model
- 2008 Vehicle Registration Data
- 2002, 2016, 2020, 2030, 2040 Analysis Years

Version 2.3 Travel Demand Model

CALIBRATED USING:

- 2007/2008 Household Interview Survey
- On-board Transit Surveys
- * 2007 HPMS Traffic Count Data
- INRIX Highway Speed Data

RESULTS TRAVEL DEMAND

Transit Trips, Vehicle Trips, and VMT Increase Through Time (millions)

	<u>2002</u>	<u>2016</u>	<u>2020</u>	2030	<u>2040</u>
Transit Trips	1.2	1.3	1.4	1.5	1.6
Vehicle Trips	14.9	17.6	18.4	20.2	21.4
VMT	150.7	178.7	186.4	203.9	219.2

RESULTS

EMISSIONS CRITERIA:

Ozone Season Pollutants (VOC and NOx):

❖Must not exceed 8-hour ozone 2008 RFP mobile budgets

Fine Particles Pollutants (Precursor Nox & Direct PM2.5):

❖Must be less than 2002 base levels

Wintertime CO:

Must not exceed approved budget

RESULTS EMISSIONS

Dramatic Reductions Through Time Due To:

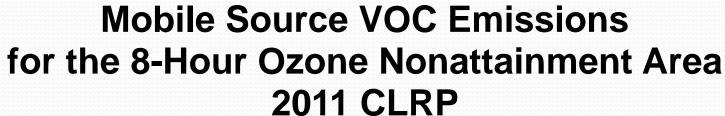
- * Tier II Vehicle Standards
- Cleaner Fuels
- Heavy Duty Engine Rule

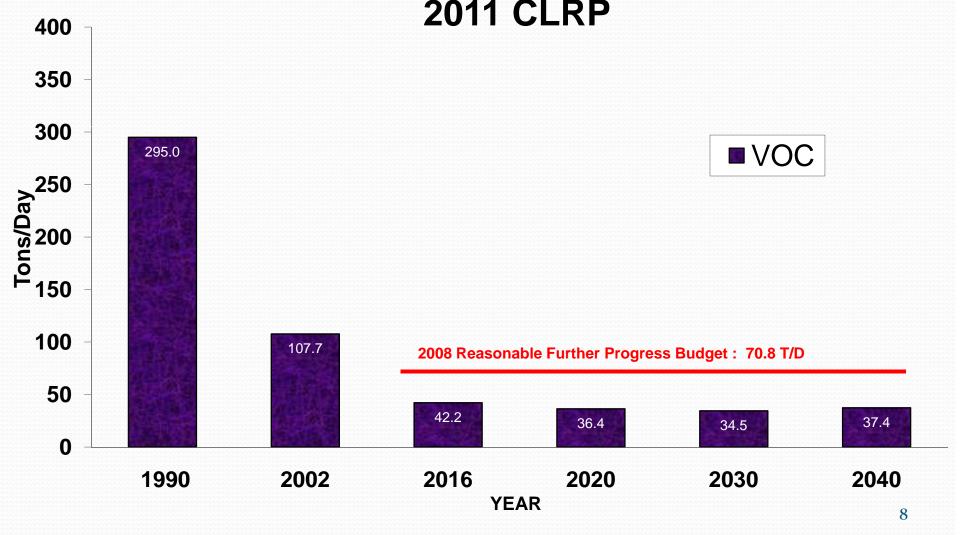
...but by 2040, emissions start to increase again

RESULTS

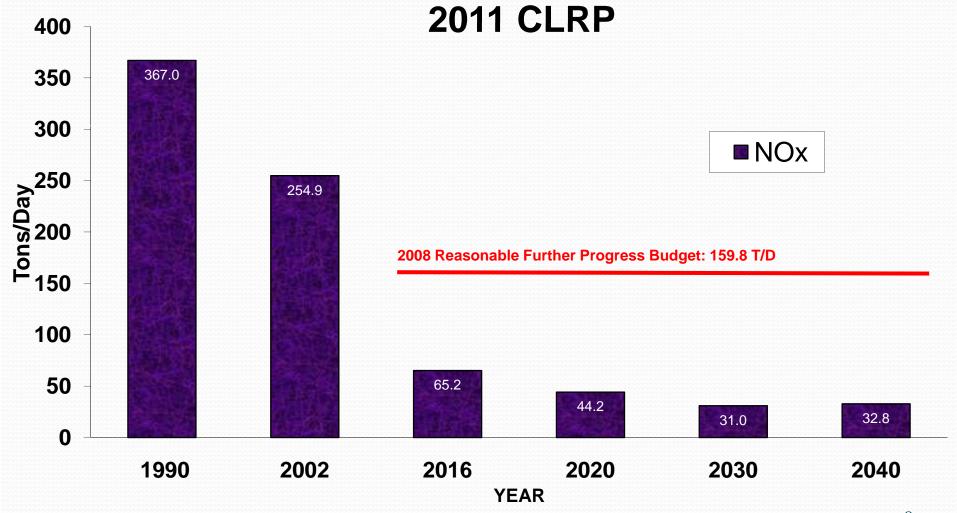
EMISSIONS

- * OZONE SEASON POLLUTANTS:
 Within Approved Budgets
- * FINE PARTICLES POLLUTANTS:
 Forecast Years Lower Than Base Year
- WINTERTIME CO:Within Approved Budget

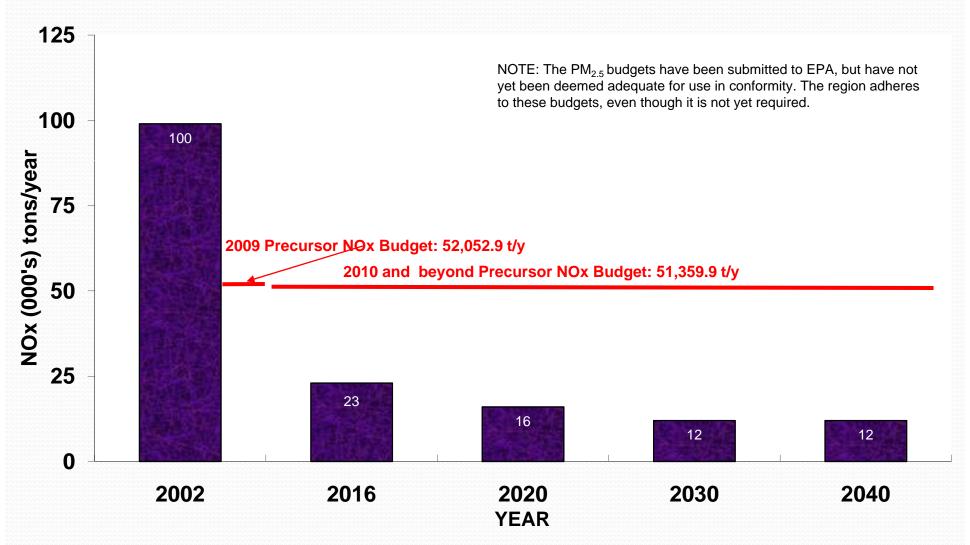




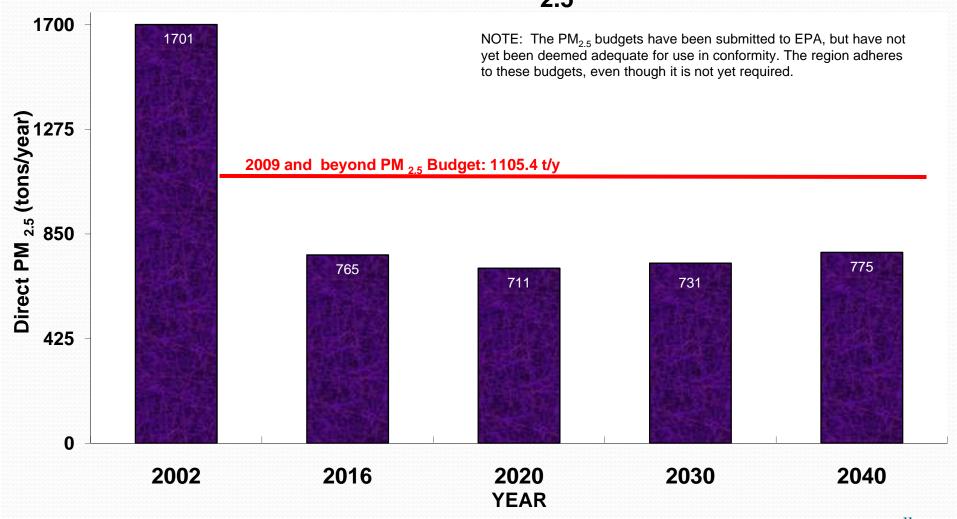
Mobile Source NOx Emissions for the 8-Hour Ozone Nonattainment Area 2011 CLRP



Mobile Source Emissions 2011 CLRP Precursor NOx



Mobile Source Emissions 2011 CLRP Direct PM_{2.5}



SCHEDULE

October 13 Public Comment Begins

October 19 TPB Briefed on Conformity Results

November 12 Public Comment Ends

November 16 TPB Reviews Comments, Asked to Adopt Amendments