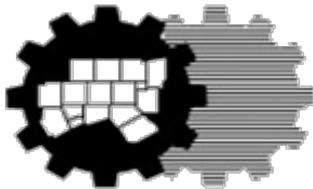


Regional and Local Air Quality Update

City of Fort Worth Pre-Council Meeting

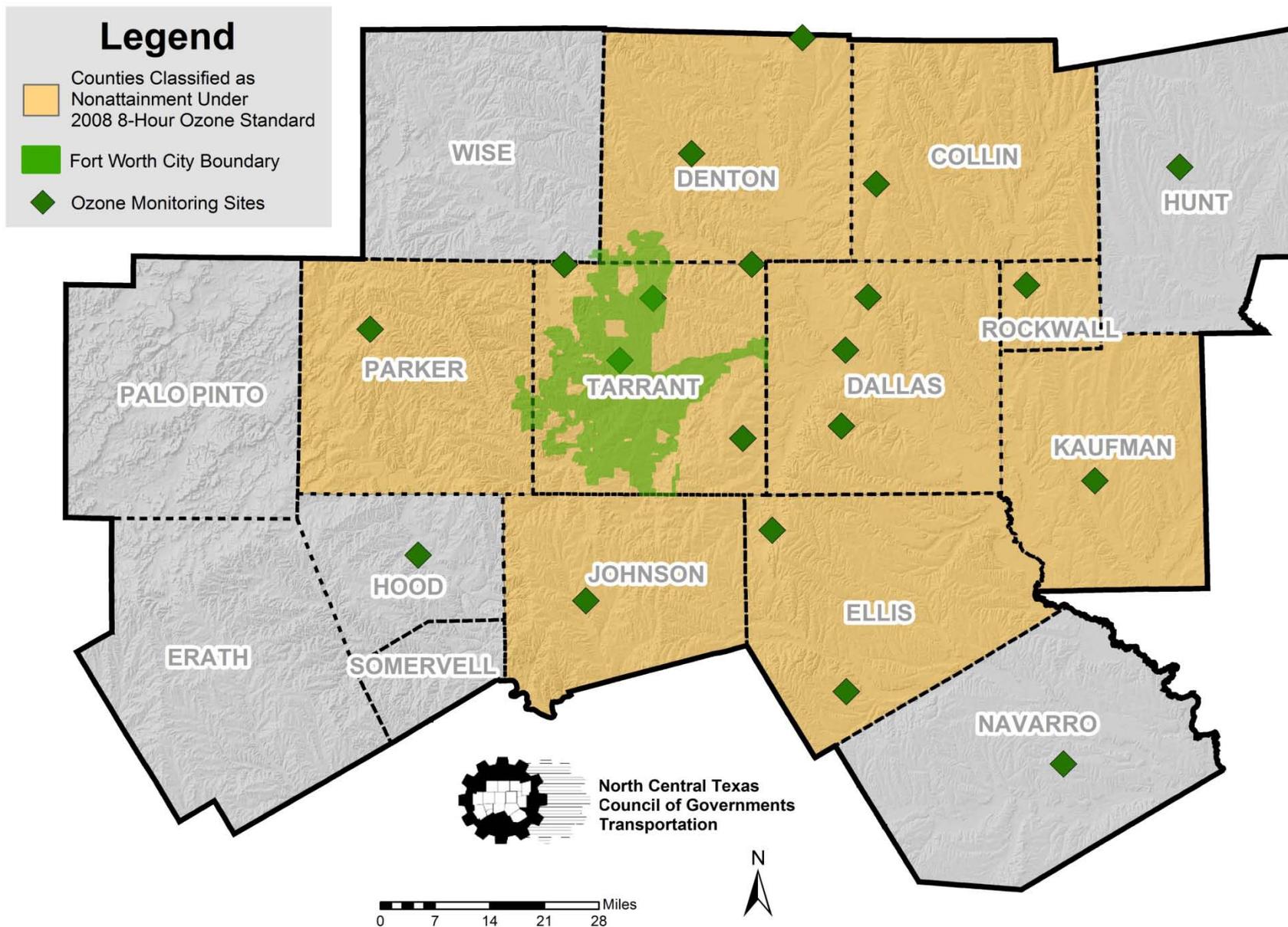
August 3, 2010



**Chris Klaus
Air Quality Planning and Operations
Transportation Department
North Central Texas Council of Governments**

NORTH CENTRAL TEXAS NONATTAINMENT AREA

8-Hour Ozone Counties



ANNUAL 8-HOUR OZONE DESIGN VALUES*

Air Quality Monitoring Sites in Tarrant County

<u>Monitor</u> <u>Location</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010[^]</u>
Arlington Municipal Airport	102	98	85	77	92	85	84	93	85	75	78	80	72
Eagle Mountain Lake	-	-	91	94	100	96	87	103	98	84	85	91	69
Ft. Worth Northwest	102	100	95	98	96	96	90	99	95	81	73	83	69
Grapevine Fairway	-	-	79	97	109	95	92	94	95	89	77	86	67
Keller	96	104	92	97	106	97	92	98	94	84	85	90	70

Monitors located in Fort Worth city limits are highlighted in red.

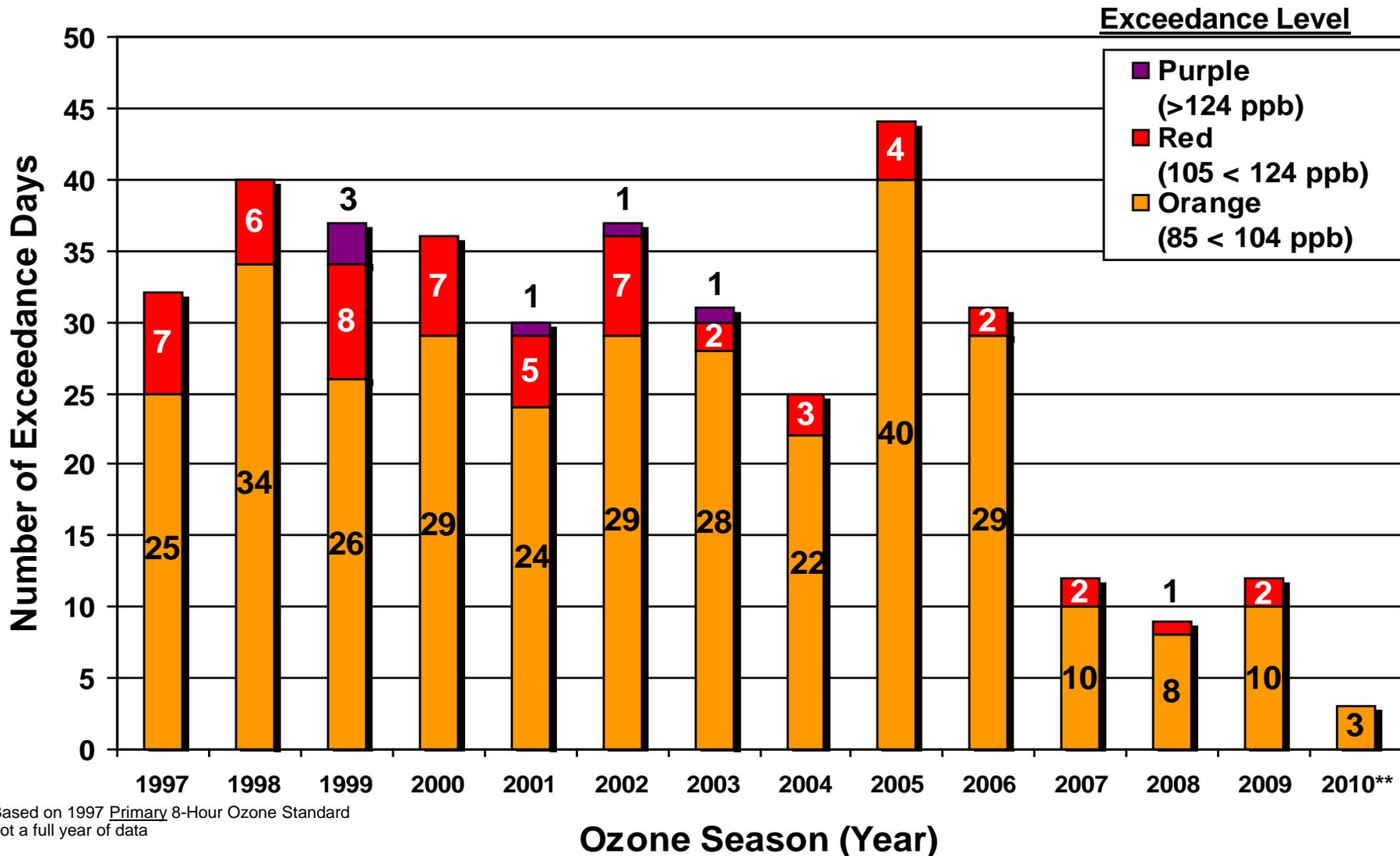
* Fourth-highest 8-hour ozone concentrations. Attainment is reached when the fourth-highest ozone concentration is below 85 ppb when averaged over a consecutive 3-year period.

[^] Not a full year of data – Current as of July 30, 2010

- Monitor not installed. No data recorded for the year.

2010 OZONE SEASON

8-Hour Ozone Exceedance Days*



* Based on 1997 Primary 8-Hour Ozone Standard

** Not a full year of data

Current as of July 29, 2010

ppb = parts per billion

Exceedance Level indicates daily maximum 8-hour average ozone concentration.

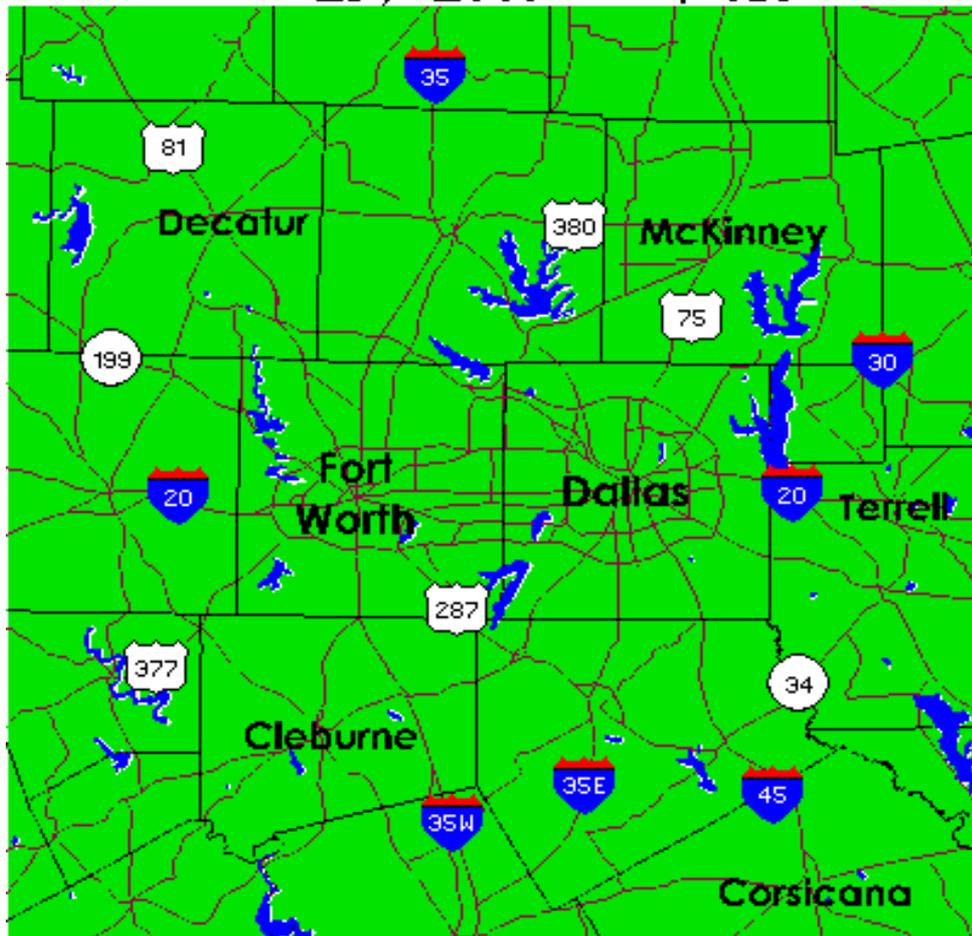
Source: Texas Commission on Environmental Quality

www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_exceed.pl

REGIONAL OZONE CONCENTRATIONS

**Maximum Daily 8-Hour Average
In Parker County Was 96 ppb**

North-Central Texas
Jun 25, 2009 7 AM



Air Quality

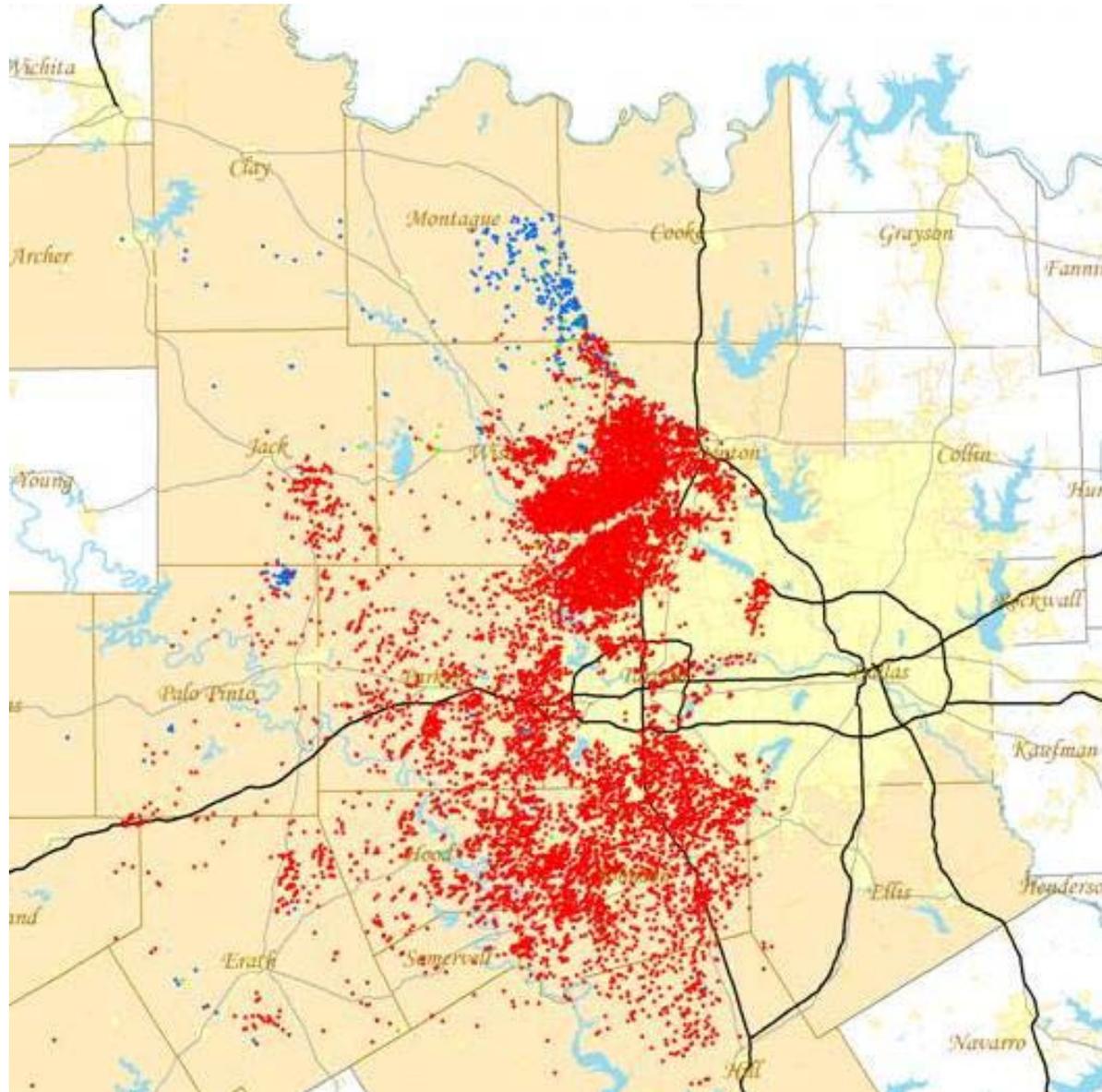


*Orange means that the hourly average is greater than 90 ppb.

Date: June 25, 2009

BARNETT SHALE FORMATION

Ozone Exceenance Correlation?



January 2010



Protecting Texas by
Reducing and
Preventing Pollution

TCEQ
Texas Commission on Environmental Quality
Chief Engineer's Office
Air Quality Division
PO Box 13687 (Mail Code 144)
Austin, Texas 78711-3687 Feb. 9, 2010

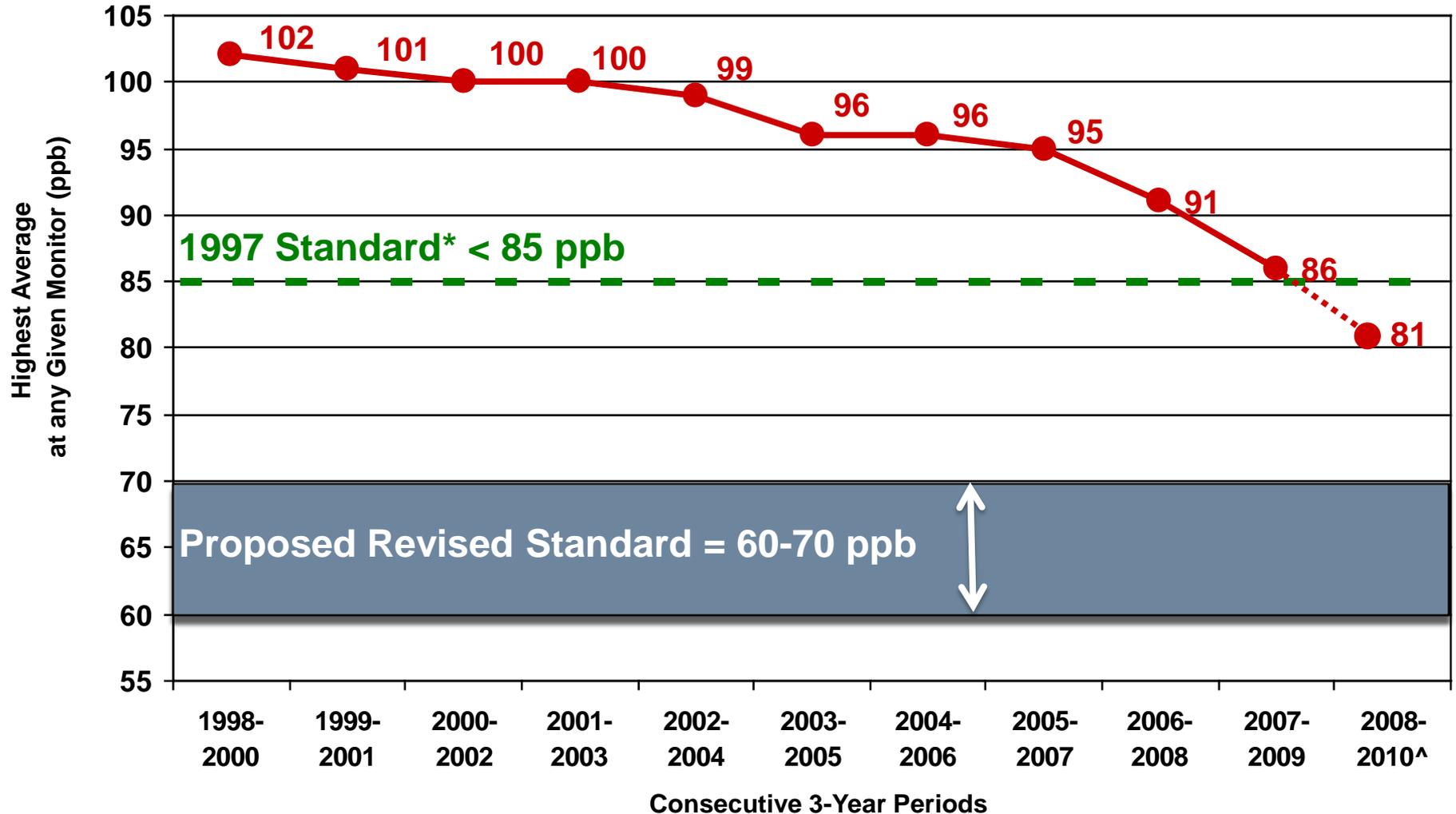
Source Data: Railroad Commission of Texas, Jan. 2010; Wells
Railroad Commission of Texas - Barnett Shale Counties (Dec. 2009)
<http://www.rtc.state.tx.us/data/fieldsdata/barnettshale.pdf>

This map was generated by the Chief Engineer's Office, Air Quality Division of the Texas Commission on Environmental Quality.
No claim is made to the accuracy or completeness of the geographic data or to the suitability for a particular use. For information
concerning this map, contact the Air Quality Division at 512-235-1400. Fig. Number: 0110_235-193a

Reclassification of Ozone Nonattainment Area

2010 OZONE SEASON

North Central Texas 8-Hour Ozone Historical Trend



* 2010 Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than 85 parts per billion (ppb).

[^] As of June 29, 2010; Not a full year of data for 2010.

NORTH CENTRAL TEXAS AIR QUALITY Programs Minimizing Transportation Impacts



Don't Choke, Call #SMOKE



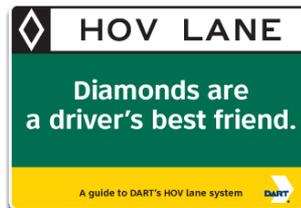
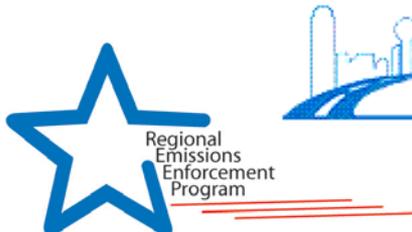
north.central.texas.clean.school.bus.program



BLUE SKYWAYS COLLABORATIVE



tryparkingit.com



RECLASSIFICATION OF NONATTAINMENT AREA

Timeline

Important Dates		Reclassification of Moderate Nonattainment Area
2010	May 1	TCEQ Submits Certified 2009 Ozone Data to EPA
	July	Estimated Timeframe for EPA to Propose Reclassification Action
	December	EPA Issues Final Action for Reclassification
2012	January	Revised DFW Air Quality Plan to EPA
2013	June 15	Serious Attainment Date Based On 2010–2012 Ozone Data

Reconsideration of 2008 8-Hour Ozone Standard

OZONE STANDARD RECONSIDERATION

Proposed Revision

Primary 8-Hour Standard

Protect Public Health

0.060-0.070 parts per million (ppm)

Secondary Standard

Protect Sensitive Vegetation & Ecosystems

7-15 ppm-hours

Milestone

Date

Final Rule

August 31, 2010

State Designation Recommendations

January 2011

EPA Designations & Classifications

July 2011

State Implementation Plans Due

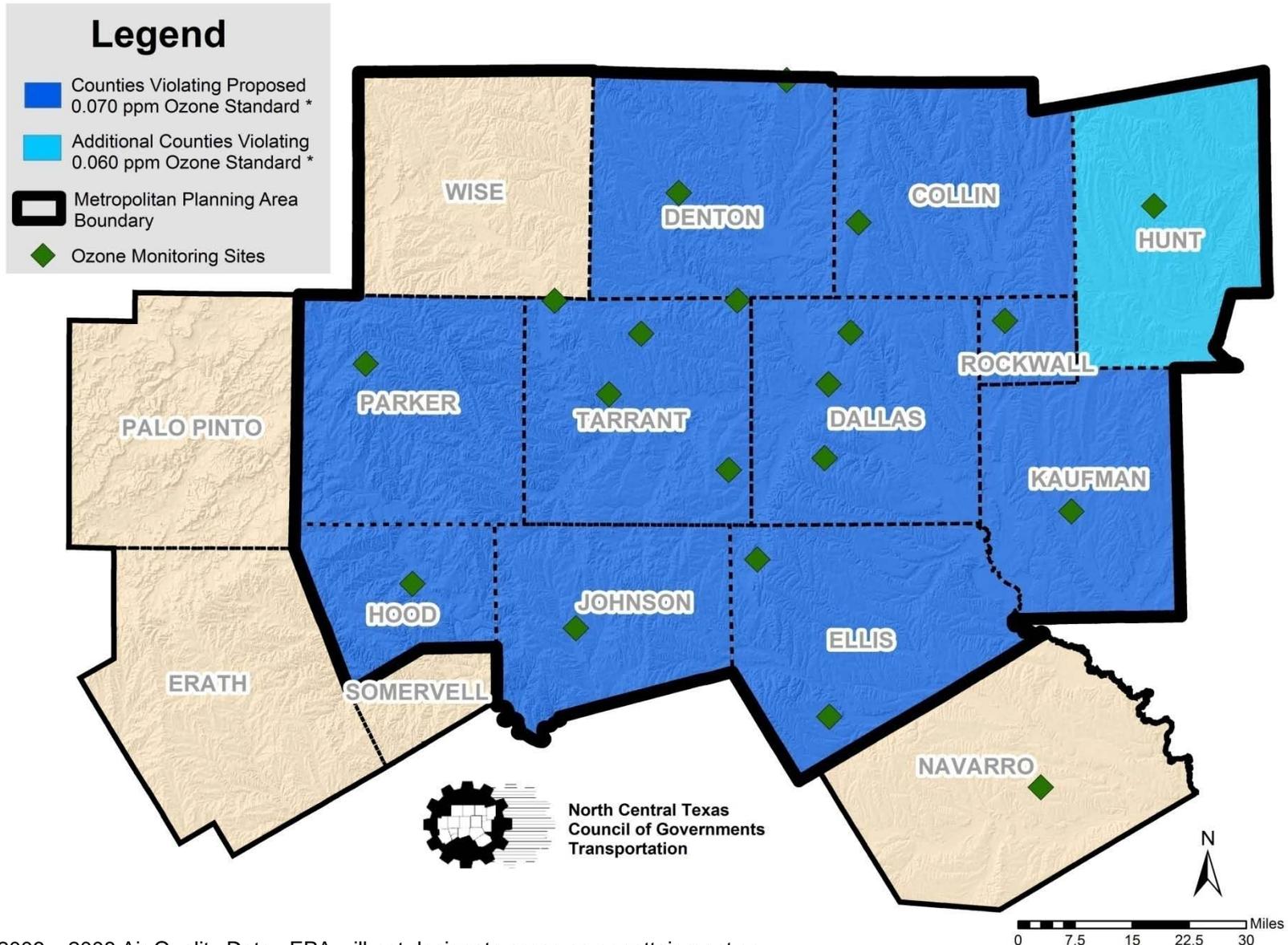
December 2013

Attainment Dates

2014-2031

RECONSIDERATION OF 2008 OZONE STANDARD

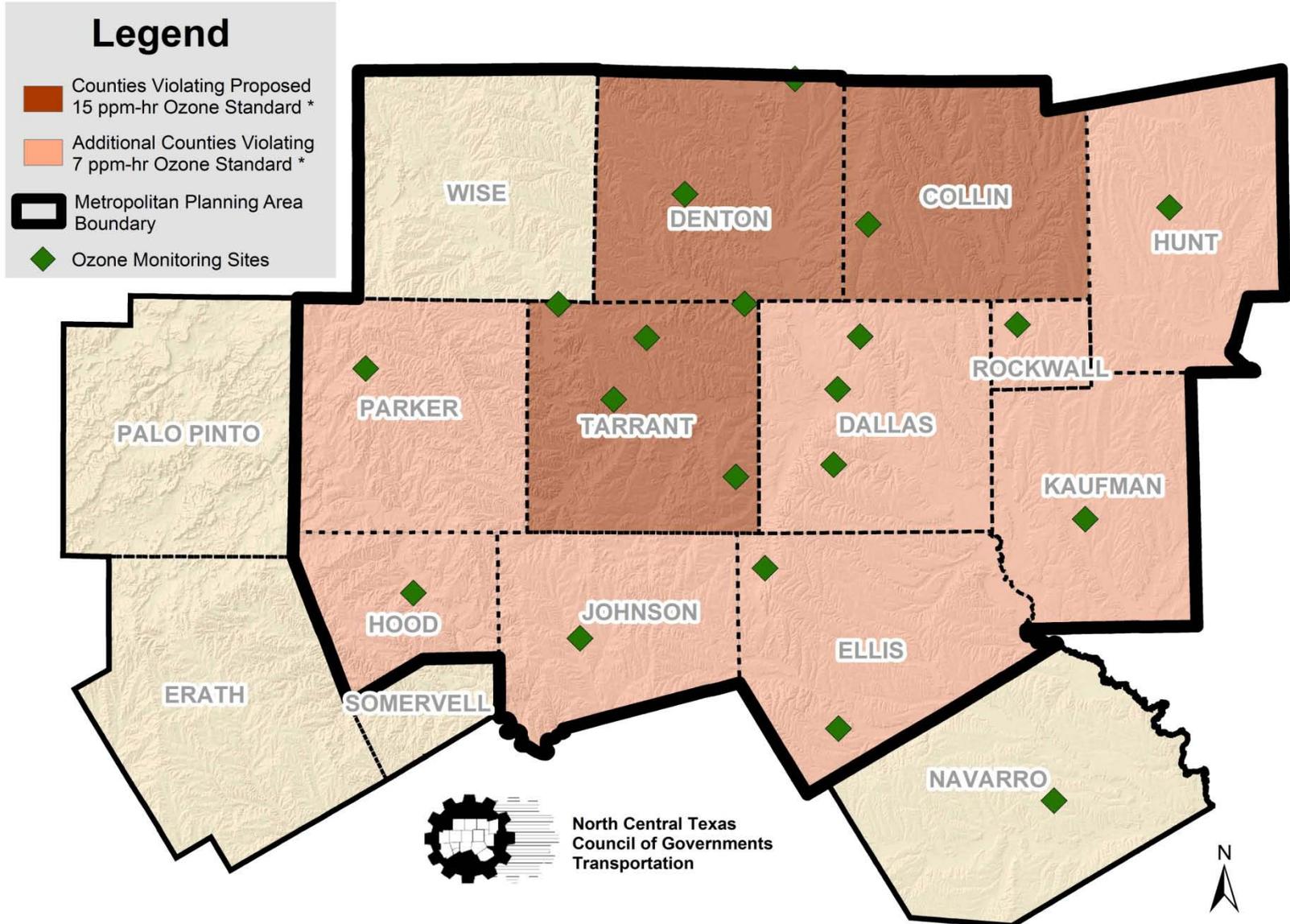
Primary Standard



* Based on 2006 – 2008 Air Quality Data. EPA will not designate areas as nonattainment on these data, but likely on 2008 – 2010 data which are expected to show improved air quality.

RECONSIDERATION OF 2008 OZONE STANDARD

Secondary Standard



* Based on 2006 – 2008 Air Quality Data. EPA will not designate areas as nonattainment on these data, but likely on 2008 – 2010 data which are expected to show improved air quality.

REGIONAL AND LOCAL AIR QUALITY UPDATE

Conclusion

Region Experiences Cleanest Air on Record

Monitor Success => Control Strategies => Inventories

On-Road Mobile Sources Continue Significant Decline

Extensive Array of Emission Reduction Control Strategies

Major Challenges on Horizon

REGIONAL AND LOCAL AIR QUALITY UPDATE

Contact Information

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Transportation Department
cklaus@nctcog.org
(817) 695-9286

For More Information, Visit: www.nctcog.org/trans/air

Local Air Quality Update



Presented by

Brian K. Boerner, CPM, CHMM, Director
Michael A. Gange, Assistant Director
Environmental Management Department

August 3, 2010

Fort Worth Clean Air Initiatives

- Clean Air Act Compliance
- Support Regional Efforts
- Contractual Obligations

Compliance

- Clean Air Act
 - o Federal and State
 - Regulate emissions from operations
 - Paint booth
 - Gasoline storage tanks
 - Landfill Gas
 - Waste Water Treatment
- Other Law
 - o SB 5 and SB12
 - Energy efficiency

Regional Efforts

- Coordinate Ozone Attainment
 - o Clean Fleet
 - o Employee Trip Reduction Programs
 - o Enhanced Waste Management Programs
 - o Anti Idle efforts
 - o Preferential purchasing
 - o Green Cement

Clean Air Contracts

- Work for the Texas Commission on Environmental Quality
 - o Help complete delegated work of State
 - o Work specified in contract
 - Inspections
 - Monitoring
 - Nuisance complaints
 - o Aid TCEQ in enforcement

Inspections

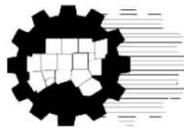
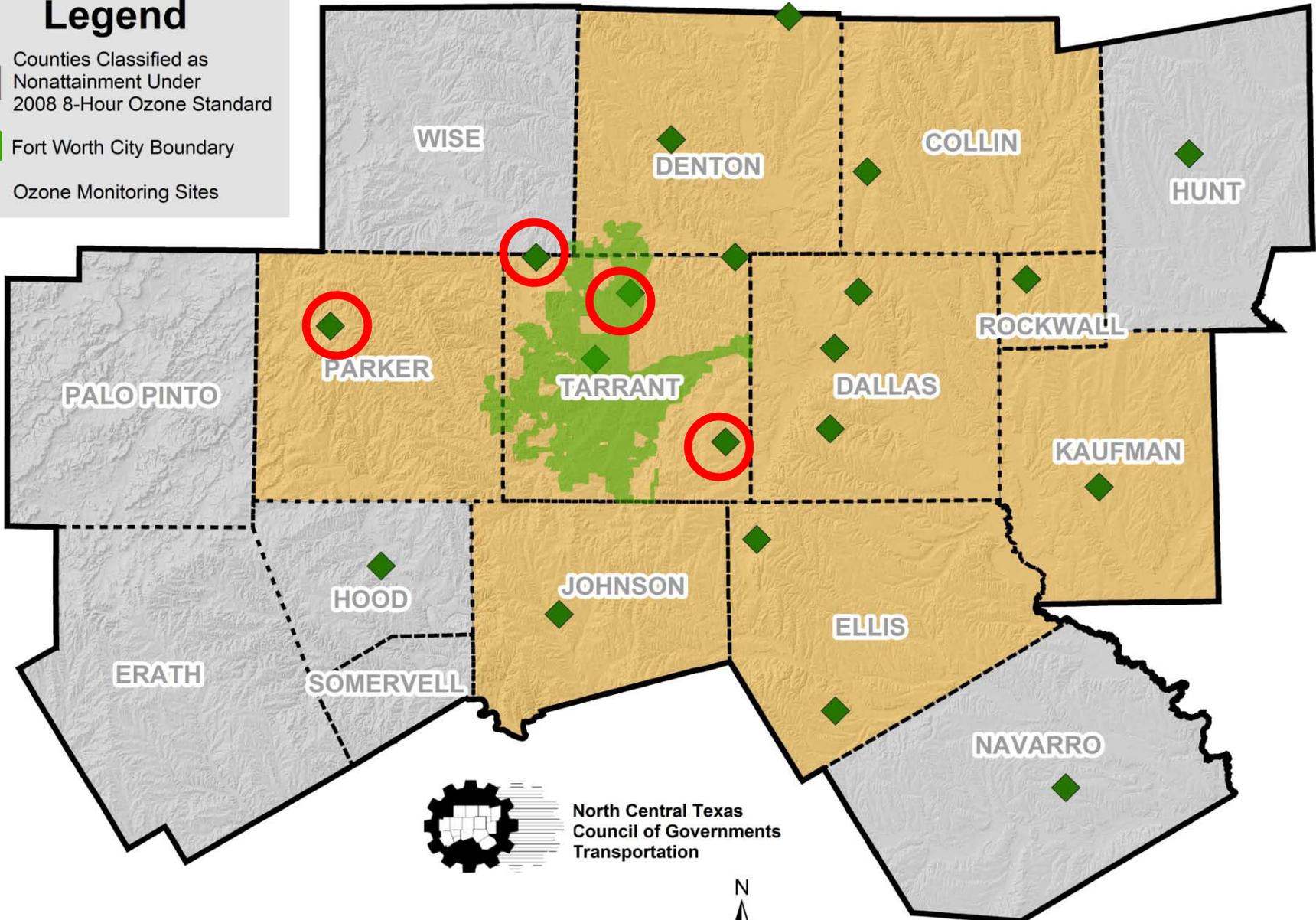
- Confirm permit compliance
 - o Title V facilities
 - Larger Sources
 - o Standard Permits
 - Concrete batch plants
 - Gasoline vapor recovery facilities
 - Paint and body shops
 - Printing facilities
 - o Minor Sources

Monitoring

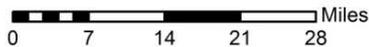
- Help state operate air monitoring network
 - o Ozone
 - o Dust
 - PM10
 - PM2.5
 - o Other air contaminants

Legend

-  Counties Classified as Nonattainment Under 2008 8-Hour Ozone Standard
-  Fort Worth City Boundary
-  Ozone Monitoring Sites



North Central Texas
Council of Governments
Transportation



Nuisance Complaints

- Dust
- Odor
 - o FIDO Protocol
- TCEQ responds to **all** Barnett Shale odor complaints

Fort Worth Air Quality Study

M&C C-24375

Study Details

- Point Source Emission Testing
 - Screen 75% of sites
 - IR Camera (visible emissions)
 - Toxic Vapor Analyzer (airborne concentration)



GasFindIR Camera



TVA 1000B

Study Details

- Point Source Emission Testing
 - o High-Flow Sampler (emission rate)
 - Check sources with TVA confirmed emissions
 - On 35 to 50 sites collect canister sample
 - o Provide chemical specific emission rate







Study Details

- Ambient Air Network
 - o Similar to EPA School Air Toxics Initiative
 - o 7 fixed sites
 - o 24-hour samples
 - Collected once every three days
 - 200 samples over 2 months
 - o 130 air toxics analyzed
 - Including 45 Hazard Air Pollutants (HAP)



SUMMA
Canister

Study Details

- Air Dispersion Modeling
 - o Using Point Source Results as input
 - o Account for:
 - Multiple sources on a single site
 - Concentrated sites in an area

Study Details

- Quality Assurance / Quality Control
 - o Internal Peer Review
 - o Certified Laboratories
 - Accuracy verified by round robin analysis
 - Internal QA/QC protocols
 - o Quality Assurance Project Plan (QAPP)
 - Equipment calibration
 - Sampling handling and collection

Study Details

- Major Milestones
 - o Field Work
 - August 2010 thru November 2010
 - o Modeling Work
 - January 2011 thru February 2011
 - o Final Report
 - March 2011
- Results made public when final

Questions?