



Air Quality Update for the Richmond-Petersburg Area

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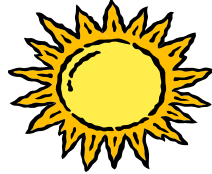
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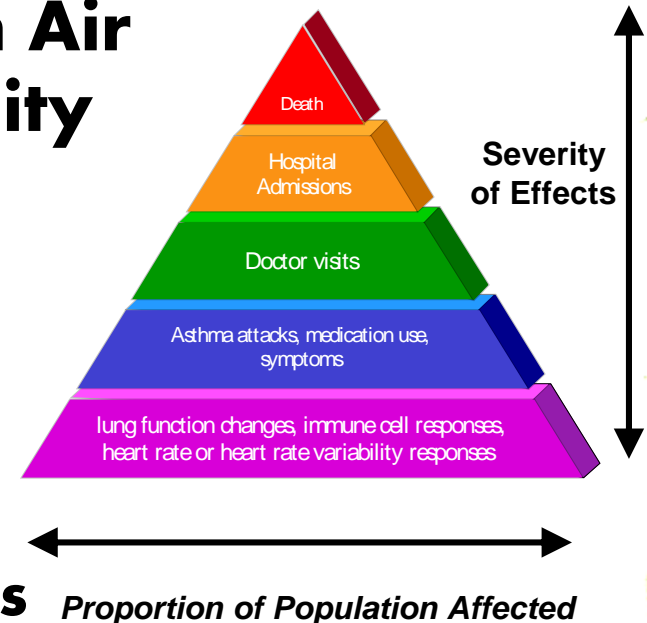
Today's Agenda



- **What is Ozone?**
- **What is the MRAQC?**
- **Richmond-Petersburg Air Quality Update**
- **Richmond-Petersburg Ozone Advance Action Plan Update**

What is Ozone?

- **Formation: VOC + NO_x +  = Ozone**
- **Mainly a summertime pollutant**
- **Lung irritant: primary component of smog**
- **Heavily regulated by the Clean Air Act (National Ambient Air Quality Standards)**
- **Affected populations:**
 - **Children, Elderly**
 - **People with lung diseases**
 - **Heavy exposure/outdoor workers**



Evolution of Federal Health-Based Ozone Requirements

- **1991 Standard**
 - 0.12 ppm (124 ppb)
 - Averaged over one hour
- **1997 Standard**
 - 0.08 ppm (84 ppb)
 - Averaged over eight hours
- **2008 Standard**
 - 0.075 ppm (75 ppb)
 - Averaged over eight hours
- **2015 Standard**
 - 0.070 ppm (70 ppb)
 - Averaged over eight hours

*LESS
STRINGENT*



*MORE
STRINGENT*

CAA Ozone History: Richmond-Petersburg



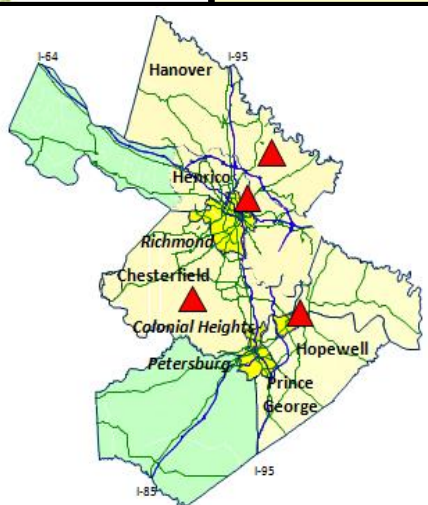
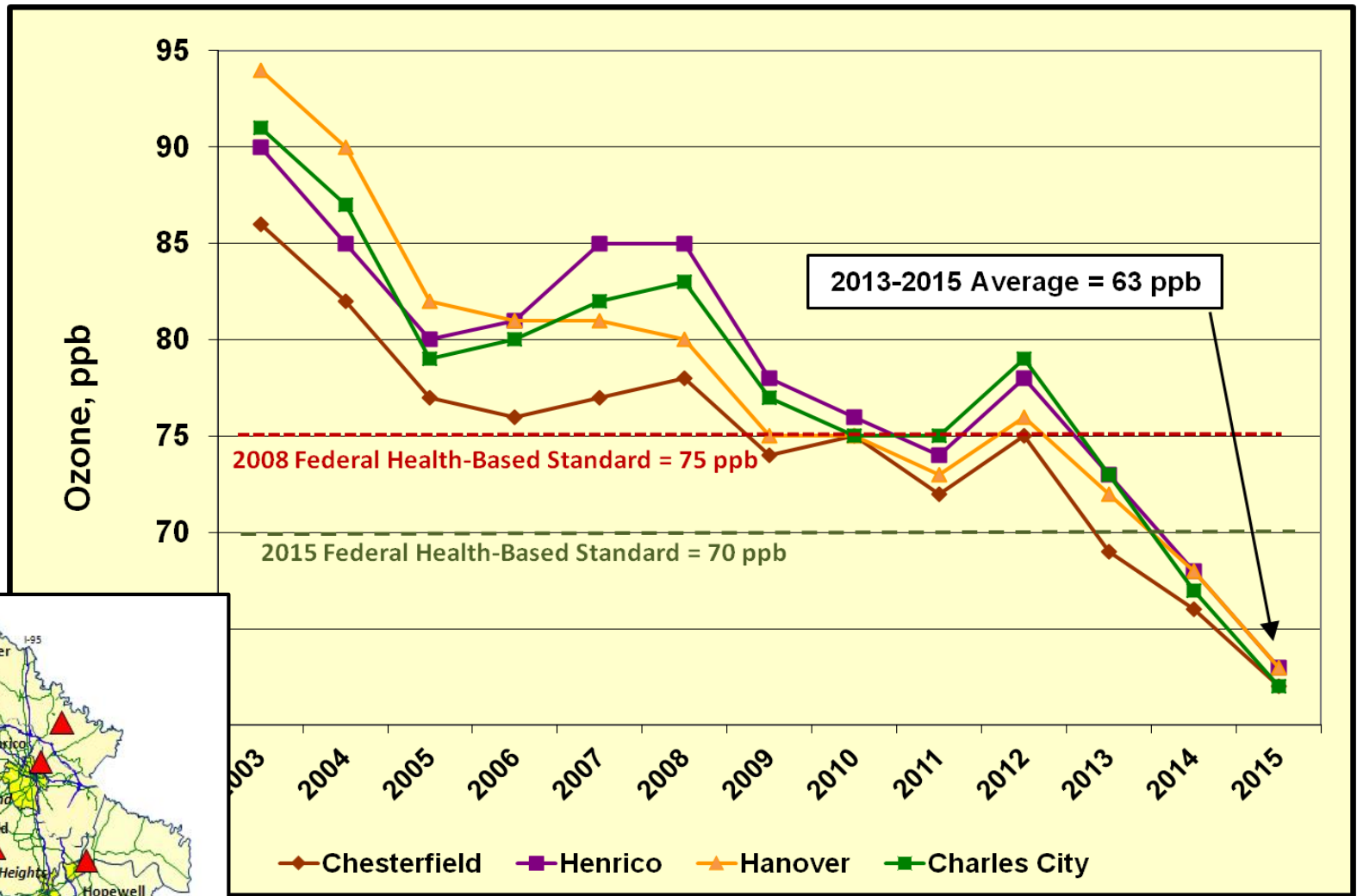
<i>Standard</i>	<i>Richmond-Petersburg's Obligations</i>
1991 Ozone NAAQS (124 ppb)	»1991- Moderate Nonattainment Area <ul style="list-style-type: none"> • Transportation Conformity, Stringent New Source Permitting, RACT »1997- Redesignated to Attainment
1997 Ozone NAAQS (84 ppb)	»2004- Moderate Nonattainment Area <ul style="list-style-type: none"> • Transportation Conformity, Stringent New Source Permitting »2007- Redesignated to Attainment
2008 Ozone NAAQS (75 ppb)	»2012- Designated Attainment Area »2013- Ozone Advance Action Plan submittal
2015 Ozone NAAQS (70 ppb)	» Expected Designations in 2017 » Area currently projected to be Attainment

Local Planning Organizations/ MRAQC



- **§174 of the Clean Air Act (CAA)**
 - **Ad Hoc committee that meets when air quality plans are required under the CAA**
 - **Nonattainment designations**
- **Comprised of:**
 - **Elected Officials of Affected Jurisdictions, MPO**
 - **VDEQ, VDOT, VDRPT Representatives**
 - **Other Stakeholders (e.g., military)**
- **Certified by the Commonwealth**
- **Metropolitan Richmond Air Quality Committee (MRAQC)**
- **Main Responsibilities:**
 - **Provide input into air quality planning process**
 - **Assist in preparing implementation plans**
- **<http://www.deq.state.va.us/Programs/Air/AirQualityPlans/OzoneandPM25RegionalPlanningActivities.aspx>**

Ozone Air Quality-3 Year Averages



Ozone Advance Action Plan

- **Developed in 2012 and early 2013**
 - **Submitted to EPA April 2013 (prior to the start of the 2013 ozone monitoring season)**
 - **2010-2012 ozone average value was 79 ppb (standard was 75 ppb)**
 - **2013-2015 ozone average value is 63 ppb (standard is 70 ppb)**
- **DEQ has submitted three annual updates**
 - **Fourth update, due to EPA 4/30/2016, is in the works**
 - **Stakeholders have provided significant information to include in the reports**
- **Plan and updates are published on EPA's website:**
www.epa.gov/advance

Ozone Advance Action Plan- Control Programs

- **Virginia Clean Cities – “Virginia Get Ready” electric vehicle program**
- **Industrial reductions:**
 - **Dominion control programs (Hopewell, Chesterfield)**
 - **Honeywell (Hopewell)**
 - **Philip Morris (Richmond)**
- **Local programs**
 - **64 Express**
 - **City of Richmond Bike Sharing Program, Ridefinders**
 - **VCU & Fort Lee sustainability efforts**
- **DMME Energy Efficiency Programs**





Questions?

Contact Information



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