Public Involvement Meeting Documentation

October 2010

Air Quality Conformity Determination for
24-hour PM$_{2.5}$ Standard
for the
2035 Regional Transportation Plan (RTP) and the FY2010
Rebalanced/Updated FY 2008-2011 Transportation Improvement
Program (TIP) for Jefferson and Shelby Counties and a portion of
Walker County in Alabama

Prepared by the
Regional Planning Commission of Greater Birmingham
Staff to the Birmingham Metropolitan Organization
1731 1st Avenue North, Birmingham, AL 35203
Phone: (205) 251-8139
Fax: (205) 328-3304
www.rpcgb.org
BIRMINGHAM METROPOLITAN PLANNING ORGANIZATION (MPO)

Public Involvement Meeting Documentation
October 2010

This document is posted at
http://www.bhammpo.org/upcomingevents.htm

For further information, please contact
Steve Ostaseski, Principal Planner
Regional Planning Commission of Greater Birmingham,
Birmingham, Alabama
Email: cedwards@rpcgb.org

Date Adopted: December 8, 2010

This report was prepared as a cooperative effort of the U.S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), the Alabama Department of Transportation (ALDOT), Environmental Protection Agency (EPA) and the Regional Planning Commission of Greater Birmingham (RPCGB), as staff to the MPO, by the requirement of Title 42 USC 7401 et seq., Clean Air Act and 40 CFR Parts 51, 81, and 93, Air Quality Conformity Rules and Regulations. The Contents of this report do not necessarily reflect the official views or policy of the USDOT.
This page intentionally left blank
MPO and Advisory Committee Officers
Fiscal Year 2010

Birmingham Metropolitan Planning Organization (MPO)
Doug Brewer, Chairman Mayor, City of Graysville
Thomas Henderson, Vice Chairman Mayor, City of Center Point
Wayne Sullivan, Secretary Director, Roads and Transportation, Jefferson County

Transportation Citizens Committee (TCC)
Ouida Fritschi, Chairman South/Southeast Jefferson County
Doris Powell, Vice Chairman City of Birmingham

Transportation Technical Committee (TTC)
David Hunke, Chairman Shelby County Planning Services Supervisor
Gregory Dawkins, Vice Chairman Birmingham Traffic Engineer

Regional Planning Commission of Greater Birmingham (RPCGB)
Serving as staff to the MPO-
Charles Ball, Executive Director
William Foisy, Director of Planning
Darrell Howard, Principal Transportation Planner
Harry He, Transportation Engineer
Michael Kaczorowski, Senior Planner
Cynthia Barton, Office Administrator
Cissy Edwards, Public Information Officer
Brett Isom, GIS Administrator
TRANSPORTATION CITIZENS COMMITTEE (TCC)
August 2010

Chairman: Ouida Fritschi
Vice-Chairman: Doris Powell

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Membership District</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adcock</td>
<td>Joanne</td>
<td>North / Northwest Jefferson County</td>
</tr>
<tr>
<td>Brown</td>
<td>Anna</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Clark</td>
<td>Lawrence</td>
<td>Shelby County</td>
</tr>
<tr>
<td>Clark</td>
<td>Nancy</td>
<td>Shelby County</td>
</tr>
<tr>
<td>Cochran</td>
<td>Peggy</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Dye</td>
<td>Jackie</td>
<td>Shelby County</td>
</tr>
<tr>
<td>Ferrell</td>
<td>Butch</td>
<td>West / Southwest Jefferson County</td>
</tr>
<tr>
<td>Fritschi</td>
<td>Ouida</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Giddens</td>
<td>Harry</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Gilbert</td>
<td>Joel</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Gordon</td>
<td>Judy</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Gunnin</td>
<td>Jim</td>
<td>East / Northeast Jefferson County</td>
</tr>
<tr>
<td>Hall</td>
<td>Pat</td>
<td>East / Northeast Jefferson County</td>
</tr>
<tr>
<td>Hodgson</td>
<td>Jeff</td>
<td>North / Northwest Jefferson County</td>
</tr>
<tr>
<td>Hodgson</td>
<td>Thelma</td>
<td>North / Northwest Jefferson County</td>
</tr>
<tr>
<td>Klein</td>
<td>Gilbert</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Ludwig</td>
<td>Bruce</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>McKenna</td>
<td>Barbara</td>
<td>East / Northeast Jefferson County</td>
</tr>
<tr>
<td>Newton</td>
<td>Courtney</td>
<td>West / Southwest Jefferson County</td>
</tr>
<tr>
<td>Osborne</td>
<td>Willie</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Owen</td>
<td>Pittman</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Peebles, III</td>
<td>Johnny</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Powell</td>
<td>Doris</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Robertson</td>
<td>T.H.</td>
<td>East / Northeast Jefferson County</td>
</tr>
<tr>
<td>Royster</td>
<td>Ruthie</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Russell</td>
<td>David</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Sims</td>
<td>Nichalaus</td>
<td>West / Southwest Jefferson County</td>
</tr>
<tr>
<td>Springer</td>
<td>John</td>
<td>City of Birmingham</td>
</tr>
<tr>
<td>Waendelin</td>
<td>Steffen</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Wiedmeyer</td>
<td>Phillip</td>
<td>South / Southeast Jefferson County</td>
</tr>
<tr>
<td>Last Name</td>
<td>First Name</td>
<td>Job Title</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Acocaff</td>
<td>Alfredo</td>
<td>Environmental Coordinator</td>
</tr>
<tr>
<td>Boozer</td>
<td>Ken</td>
<td>Traffic Engineer</td>
</tr>
<tr>
<td>Caudle</td>
<td>Richard</td>
<td>Traffic Engineer</td>
</tr>
<tr>
<td>Chaffin</td>
<td>Sheila</td>
<td>Planner</td>
</tr>
<tr>
<td>Church</td>
<td>Fenn</td>
<td>President</td>
</tr>
<tr>
<td>Clement</td>
<td>Ron</td>
<td>Railroad Representative</td>
</tr>
<tr>
<td>Cobb</td>
<td>Matthew</td>
<td>Engineer</td>
</tr>
<tr>
<td>Cothron</td>
<td>Scott</td>
<td>Assistant Project Manager</td>
</tr>
<tr>
<td>Darden</td>
<td>Richard</td>
<td>At-Large</td>
</tr>
<tr>
<td>Dawkins</td>
<td>Greg</td>
<td>City Traffic Engineer</td>
</tr>
<tr>
<td>Folcher</td>
<td>Al</td>
<td>At-Large</td>
</tr>
<tr>
<td>Fort</td>
<td>Kim</td>
<td>Director</td>
</tr>
<tr>
<td>Garratt</td>
<td>Phillip</td>
<td>At-Large</td>
</tr>
<tr>
<td>Hale</td>
<td>Doug</td>
<td>Bicycle / Pedestrian Representative</td>
</tr>
<tr>
<td>Hatcher</td>
<td>Chris</td>
<td>Operation New Birmingham Representative</td>
</tr>
<tr>
<td>Hawkins</td>
<td>Fred</td>
<td>Engineer</td>
</tr>
<tr>
<td>Holladay</td>
<td>Scott</td>
<td>Chief Civil Engineer</td>
</tr>
<tr>
<td>Hornbuckle</td>
<td>Denise</td>
<td>Program Director</td>
</tr>
<tr>
<td>Howanitz</td>
<td>Jason</td>
<td>Air Pollution Control Engineer</td>
</tr>
<tr>
<td>Hunke</td>
<td>David</td>
<td>Planning Services Supervisor</td>
</tr>
<tr>
<td>Kemp</td>
<td>Randy</td>
<td>City Engineer</td>
</tr>
<tr>
<td>Long</td>
<td>Rod</td>
<td>Engineer</td>
</tr>
<tr>
<td>Magee</td>
<td>Tom</td>
<td>Chief Planner</td>
</tr>
<tr>
<td>Malone</td>
<td>Charles</td>
<td>Maintenance Engineer</td>
</tr>
<tr>
<td>McCord</td>
<td>Wallace</td>
<td>At-Large</td>
</tr>
<tr>
<td>Nicholson</td>
<td>Mary Margaret</td>
<td>At-Large</td>
</tr>
<tr>
<td>Oranika</td>
<td>Emmanuel</td>
<td>Metropolitan Planning Engineer</td>
</tr>
<tr>
<td>Reeves</td>
<td>Chris</td>
<td>Assistant City Engineer</td>
</tr>
<tr>
<td>Siserir</td>
<td>Rhonda</td>
<td>Planning Manager</td>
</tr>
<tr>
<td>Stewart</td>
<td>John</td>
<td>Principal Civil Engineer</td>
</tr>
<tr>
<td>Sullivan</td>
<td>Andrew</td>
<td>Research Engineer</td>
</tr>
<tr>
<td>Tally</td>
<td>John</td>
<td>Assistant Director</td>
</tr>
<tr>
<td>Taylor</td>
<td>Lance</td>
<td>Preconstruction Engineer</td>
</tr>
<tr>
<td>Williams</td>
<td>Virginia</td>
<td>Executive Administrative Assistant</td>
</tr>
<tr>
<td>Womack</td>
<td>Eric</td>
<td>Senior Planner</td>
</tr>
<tr>
<td>Peterson</td>
<td>Holly</td>
<td>FTA Representative (Non-Voting Member)</td>
</tr>
<tr>
<td>Baldwin</td>
<td>Nan</td>
<td>Vice-President Regional Development</td>
</tr>
<tr>
<td>Gore</td>
<td>Ron</td>
<td>Chief - Air Division</td>
</tr>
<tr>
<td>Harris</td>
<td>Dave</td>
<td>Planning Program Manager</td>
</tr>
<tr>
<td>Last Name</td>
<td>First Name</td>
<td>Job Title</td>
</tr>
<tr>
<td>-----------</td>
<td>------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Abbott</td>
<td>Valerie</td>
<td>Councilor</td>
</tr>
<tr>
<td>Adams</td>
<td>Tracey</td>
<td></td>
</tr>
<tr>
<td>Alexander</td>
<td>Tommy</td>
<td>Mayor</td>
</tr>
<tr>
<td>Austin</td>
<td>Jonathan</td>
<td>Councilor</td>
</tr>
<tr>
<td>Baumann</td>
<td>Delor</td>
<td>Mayor</td>
</tr>
<tr>
<td>Beason</td>
<td>Scott</td>
<td>Senator</td>
</tr>
<tr>
<td>Bell</td>
<td>William</td>
<td>Mayor</td>
</tr>
<tr>
<td>Bittas</td>
<td>Andre</td>
<td>Director</td>
</tr>
<tr>
<td>Bouyer</td>
<td>Melanie</td>
<td>Mayor</td>
</tr>
<tr>
<td>Brasseale</td>
<td>Jerry</td>
<td>Mayor</td>
</tr>
<tr>
<td>Brewer</td>
<td>Doug</td>
<td>Mayor</td>
</tr>
<tr>
<td>Caliento</td>
<td>Robert</td>
<td></td>
</tr>
<tr>
<td>Carns</td>
<td>Jim</td>
<td>Commissioner</td>
</tr>
<tr>
<td>Cole</td>
<td>Randy</td>
<td>Engineer</td>
</tr>
<tr>
<td>Collins</td>
<td>Bettye Fine</td>
<td>Commissioner</td>
</tr>
<tr>
<td>Cook</td>
<td>Chris</td>
<td></td>
</tr>
<tr>
<td>Davis</td>
<td>Brian</td>
<td>Division Engineer</td>
</tr>
<tr>
<td>Dawkins</td>
<td>Greg</td>
<td>City Traffic Engineer</td>
</tr>
<tr>
<td>Dillard</td>
<td>Larry</td>
<td>Commissioner</td>
</tr>
<tr>
<td>French</td>
<td>Steve</td>
<td>Senator</td>
</tr>
<tr>
<td>Frings</td>
<td>David</td>
<td>Mayor</td>
</tr>
<tr>
<td>Hamilton</td>
<td>Ray</td>
<td>Manager</td>
</tr>
<tr>
<td>Henderson</td>
<td>Tom</td>
<td>Mayor</td>
</tr>
<tr>
<td>Hill</td>
<td>Mike</td>
<td>Representative</td>
</tr>
<tr>
<td>Humphries</td>
<td>Bobby</td>
<td>Commissioner</td>
</tr>
<tr>
<td>Jowers</td>
<td>Jesse</td>
<td>City Engineer</td>
</tr>
<tr>
<td>Kemp</td>
<td>Randall</td>
<td>City Engineer</td>
</tr>
<tr>
<td>Kemp-Rotan</td>
<td>Renee</td>
<td>Assistant</td>
</tr>
<tr>
<td>Long</td>
<td>Rod</td>
<td>Engineer</td>
</tr>
<tr>
<td>Phillips</td>
<td>Othell</td>
<td>Mayor</td>
</tr>
<tr>
<td>Magee</td>
<td>Tom</td>
<td>Chief Planner</td>
</tr>
<tr>
<td>May</td>
<td>Edward</td>
<td>Mayor</td>
</tr>
<tr>
<td>McCondichie</td>
<td>Roger</td>
<td>Mayor</td>
</tr>
<tr>
<td>Melton</td>
<td>Gene</td>
<td>Mayor</td>
</tr>
<tr>
<td>Oden</td>
<td>Lawrence</td>
<td>Mayor</td>
</tr>
<tr>
<td>Parker</td>
<td>Maxine Herring</td>
<td>Councilor</td>
</tr>
<tr>
<td>Parsons</td>
<td>Steve</td>
<td>Mayor</td>
</tr>
<tr>
<td>Rafferty</td>
<td>Kimberly</td>
<td>Councilor</td>
</tr>
<tr>
<td>Richardson</td>
<td>Gary</td>
<td>Mayor</td>
</tr>
<tr>
<td>Robinson</td>
<td>Guin</td>
<td>Chairman</td>
</tr>
<tr>
<td>Scales</td>
<td>LaShunda</td>
<td>Councilor</td>
</tr>
<tr>
<td>Sullivan</td>
<td>Wayne</td>
<td>Director</td>
</tr>
<tr>
<td>Tuck</td>
<td>Loxcil</td>
<td>Mayor</td>
</tr>
<tr>
<td>Voketz</td>
<td>Dan</td>
<td>Chief Planner</td>
</tr>
<tr>
<td>Bartlett</td>
<td>Mark</td>
<td>Division Administrator</td>
</tr>
<tr>
<td>Jilla</td>
<td>Robert</td>
<td>Multimodal Transportation Engineer</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS

Section 1: Introduction………………………………………….. 1-1

Section 2: Outreach and Notification Procedures…………………. 2-1

Section 3: Attendance and Distribution of Information……………… 3-1
  Sign In Sheet…………………………………………………………… 3-3
  Meeting Evaluation with Results…………………………………… 3-4

Section 4: Summary of Comments and Questions………………….. 4-1

Appendix A: Outreach Notification……………………………… A-1

Appendix B: Information Distributed……………………………… B-1

Appendix C: Display Information………………………………….. C-1
This page intentionally left blank
Section 1

INTRODUCTION

This document summarizes the public involvement meeting held on October 20, 2010, 12:00 p.m. – 1:30 p.m. at the Regional Planning Commission of Greater Birmingham, First Floor Conference Room, 1731 1st Avenue North, Birmingham, AL. This meeting was conducted to discuss and document comments and questions on the Air Quality Conformity Determination for 24-hour Particulate Matter 2.5 (PM2.5) Standard for the 2035 Regional Transportation Plan (RTP) and the Rebalanced FY2008-2011 Transportation Improvement Program (TIP).

The public involvement meeting was conducted in an open house format with formal presentations by the Regional Planning Commission of Greater Birmingham, Jefferson County Department of Health, Alabama Department of Environmental Management and CommuteSmart. Detailed information on Particulate Matter and the new Environmental Protection Agency’s new modeling framework MOVES2010 was provided. The results of the modeling for the 2035 RTP fiscally constrained capacity projects and the map and project list were displayed. RPC staff was available to answer questions.

Attendees were provided a copy of the Powerpoint presentations, a comment form and a meeting evaluation form.

The results of a public involvement meeting are used by the Metropolitan Planning Organization in the adoption of plans, programs, and projects. The final written report is made available to the public.

This report has been prepared by the transportation planning staff of the Regional Planning Commission of Greater Birmingham.
Section 2

OUTREACH AND NOTIFICATION PROCEDURES

Flyer Preparation (Examples included in Appendix A)
- A standard size flyer was prepared for distribution.
- A standard size flyer was prepared for distribution to Transportation Citizens Committee, Transportation Technical Committee and MPO Committee members.

Direct Mailing (Examples included in Appendix A)
- The postcard was mailed to 1,422 persons/organizations included in the Transportation Public Involvement contacts list October 1, 2010.
- A letter to the Transportation Citizens, Transportation Technical Committees and the MPO was mailed beginning October 4, 2010.
- A letter was mailed October 4, 2010 to local Librarians with flyers enclosed to distribute to patrons.
- A letter and flyers were mailed to City of Birmingham’s neighborhood association presidents September 24, 2010 for posting in their neighborhoods.

Advertising (Included in Appendix A)
- A legal notice was included in the following newspapers:
  The Birmingham News- October 6, 10, 13, 17, 2010
  The Birmingham Times- October 7 and 14, 2010
  Shelby County Reporter- October 6 and 13, 2010

Media Outreach (Examples included in Appendix A)
- A Press Release was sent to all local media outlets on October 14, 2010.
- A Media Advisory was sent on October 19, 2010.

Additional Outreach
- Information about the public involvement meeting was posted on the MPO website (www.bhammpo.org) on September 25, 2010.
- Information about the public involvement meeting was included in the RPC E-News Connections Update emailed October 7, 2010 to over 500 persons including local media.
- A broadcast email was sent to Birmingham MPO contacts as a reminder on October 19, 2010.
This page intentionally left blank
Section 3

ATTENDANCE AND DISTRIBUTION OF INFORMATION

A total of 20 persons, exclusive of the Regional Planning Commission of Greater Birmingham staff, signed the attendance sheet that is included in this section. (See page 3-3)

The following information was given to each attendee:
- Regional Planning Commission of Greater Birmingham Powerpoint (See Appendix B)
- Jefferson County Health Department Powerpoint (See Appendix B)
- Alabama Department of Environmental Management Powerpoint (See Appendix B)
- CommuteSmart Powerpoint (See Appendix B)
- Meeting Comment Sheet (See Appendix B)
- Meeting Evaluation Form (See results page 3-4)

The following information was available to attendees during the meeting:
- Air Quality Conformity Documentation
- A Citizens Guide to Transportation Planning
- Transportation Citizens Committee information concerning becoming a member

Poster-sized maps and charts were displayed in the room. They included the following: (See Appendix C):
- 2035 Regional Transportation Plan Fiscally Constrained Capacity Projects map and list
- Chart showing air quality conformity for 2035 Regional Transportation Plan Fiscally Constrained Capacity Projects.

During the open house staff manned the displays and attendees had the opportunity to talk with staff and presenters.
This page intentionally left blank
<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>ZIP</th>
<th>REPRESENTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anne Brown</td>
<td>3115 - 24th St. N.</td>
<td>35207</td>
<td></td>
</tr>
<tr>
<td>George Buchanan</td>
<td>4398 Boulder Lake Circle</td>
<td>35207</td>
<td>S. Southeast</td>
</tr>
<tr>
<td>Ashley Frankish</td>
<td>71 Fair Harbor Dr., Homewood</td>
<td>35209</td>
<td>TCC</td>
</tr>
<tr>
<td>Jeriann Wooley</td>
<td>611 Meadow Drive, Birmingham, AL</td>
<td>35240</td>
<td>CBS 42</td>
</tr>
<tr>
<td>Chris Womack</td>
<td></td>
<td>35240</td>
<td></td>
</tr>
<tr>
<td>Matt Lache</td>
<td></td>
<td>35270</td>
<td>TCDT</td>
</tr>
<tr>
<td>Jim Bell</td>
<td></td>
<td>35270</td>
<td>TCDT</td>
</tr>
<tr>
<td>Phillip Nutzmeier</td>
<td>1501 Buckhead Trail Bluff</td>
<td>35216</td>
<td>ACFC</td>
</tr>
<tr>
<td>Craig Maxey</td>
<td>1400 Dick Ave., Hueytown, AL</td>
<td>35216</td>
<td></td>
</tr>
<tr>
<td>Dale Hurst</td>
<td></td>
<td>36130</td>
<td>ADEM</td>
</tr>
<tr>
<td>Lisa Hicks</td>
<td>1400 Coliseum Blvd., Montgomery</td>
<td>36110</td>
<td>ADEM</td>
</tr>
<tr>
<td>Curt Andrews</td>
<td>9500 Wynclaire Dr., Montgomery</td>
<td>36110</td>
<td>FHW1A</td>
</tr>
<tr>
<td>Gilbert Klein</td>
<td>P. O. Box 26425, 1015 Mc Millan Ave, Birmingham, AL 35228</td>
<td>35228</td>
<td>KAC</td>
</tr>
<tr>
<td>Keith Johnston</td>
<td>604 2nd Ave. South, Birmingham</td>
<td>35203</td>
<td>SELC</td>
</tr>
<tr>
<td>Gerri Doggett</td>
<td>1013 Fairmount Circle, BM</td>
<td>35242</td>
<td>TCC</td>
</tr>
<tr>
<td>Sheila Tyson</td>
<td>1233/14 PLS W 13th St., BM</td>
<td>35203</td>
<td>C.A. B.</td>
</tr>
<tr>
<td>Christopher Beale</td>
<td>1706 W 6th Ave., BM</td>
<td>35203</td>
<td></td>
</tr>
<tr>
<td>Gayle Newton</td>
<td>Wild Way 40 Dr., 220</td>
<td>35228</td>
<td></td>
</tr>
<tr>
<td>Ronnie Kemp-Thomas</td>
<td>City Hall, Birmingham</td>
<td>294-2406</td>
<td>City Planner</td>
</tr>
<tr>
<td>Tim Westhoven</td>
<td>City of Hoover</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Public Involvement  
October 20, 2010  
Meeting Evaluation

1. How did you find out about this public involvement meeting? Check all that apply.
   1. Newspaper, Which one? Birmingham News  
   TV
   □ Radio
   □ Friend/Neighbor  
   □ Internet  
   □ Library
   3. Flyer in the Mail
   □ Church
   6. Other:
      Work – 2  
      Email – 1  
      TCC - 3

2. How often have you attended transportation related government meetings in the community in the past year?
   1. 0 times
   1. 1-2 times
   2. 3-4 times
   5. 5 or more times

3. People attend meetings for many reasons. What was the main reason you attended this meeting?
   • To understand conformity determination for 24 PM2.5 standard
   • Education for local government
   • Increase public transportation
   • Information
   • Job assistance
   • Interest in how well my county has done and info in general
   • Schedule meeting with employers on air quality
   • Interested in learning more about air quality in this area and how it is improving

4. Overall, how did you like the format of this meeting?
   5. Liked it very much
   3. Liked it
   1. Neither liked nor disliked it
      Disliked it
      Disliked it very much
5. How would you rank the information presented today?
   5 Very informative
   1 Somewhat informative
   3 Nothing new
   Not very informative
   Not informative at all

6. Did you ask a question during the meeting?
   5 Yes
   3 No

7. Were your questions and/or concerns addressed in the:
   5 Formal Presentation Question and Answer time?
   1 General Discussion?
     One-on-one with RPCGB staff.
     My questions were not addressed.

8. How would you prefer to get transportation project information?
   4 Through a formal presentation
   3 Talking one on one with staff
   3 Website
   2 Through the mail/newsletter
   4 Meetings
   5 Email

9. If you want to make a comment about a project or the process, would you prefer to:
   3 Make that comment for others to hear.
     Make the comment privately, not heard by others.
   2 Submit it in writing.
   1 Depends on the comment
   1 Ask questions during the meeting

10. Do you prefer a meeting format that is:
    4 A formal presentation at a specific time and citizens take turns making
        comments and asking question after the meeting?
    1 Open house where citizens come and go at any time between certain hours to
        get information or make a comment?
    2 A combination of both?

11. Feel free to include other comments you have on how RPCGB can improve these
    meetings or communicate better with you and the public.

    No Comments were submitted
This page intentionally left blank
Questions/Comments and Responses

As required by the Birmingham MPO’s Public Participation Plan, the following is a summary of questions and comments posed during the comment period that opened October 20, 2010 and closed November 9, 2010 for the Air Quality Conformity Determination for 24-hour Particulate Matter 2.5 (PM2.5) Standard for the 2035 Birmingham Regional Transportation Plan and Rebalanced FY2008-2011 Transportation Improvement Program. Matt Lacke, Jefferson County Health Department, Dale Hurst, Alabama Department Environmental Management, Steve Ostaseski and Harry He, Regional Planning Commission of Greater Birmingham and Lindsey Gray, CommuteSmart responded to the following comments and questions.

Responses are noted in Bold following each question/comment.

1. Question/Comment: Very well presented. All questions were answered. Speakers should speak up so that those hearing impaired can hear all that is said. What can be done by those driving older cars to reduce bad emissions?

Response: We will investigate the use of a microphone system. To help reduce bad emissions in older cars the Alabama Partners for Clean Air funds an emissions testing and repair program.

2. Question/Comment: Presenters very well prepared and knowledgeable - able to answer any inquiries.

Response: We invited presenters from other organizations who are responsible for air quality activities.

3. Question/Comment: Reflecting on the air quality - a lack of it – when we moved to Birmingham in 1969 the attainment announced today is amazing. Going back to 1970 when steel mills were in production we had terrible pollution. Do you have any idea what the count was at that time? I wish we had some figures to compare?

Response by Matt Lacke: We do not have particulate data for 1970. We have data starting in the early to mid-70s but there were different standards in place at that time called Total Suspended Particulates or TSP for short, but that included all particles, not the specific types that we have today. There were high levels of TSP when monitoring of that began and it was monitored until the late 1980s. We saw a sharp decline during that period through.
4. **Question/Comment:** I enjoyed this informative program. I have concerns about the monitoring stations at both North Birmingham and Wylam. And the numbers shown, noticed that both the annual and 24 hour you have in both those charts North Birmingham and Wylam seem to be above, but you, now you are saying the average that you have there are taking in attainment and saying we are in attainment when in actuality you got areas that are in the urban core of the city that are not in attainment so how are you justifying that? For which standard? North Birmingham and Wylam is the highest one especially in Birmingham. You are talking about the core of the city and they are not in attainment for both.

**Response by Matt Lacke:** For the 24 hr. PM2.5 standard during 2007 to 2009 we did reach attainment for all monitors, including North Birmingham. However, for the annual PM2.5 standard, the only one not in attainment was North Birmingham for that time period. Although, preliminary data shows that through October 15th of this year, we are actually in attainment at every single monitor in the area for both PM2.5 standards. When looking at just 2010 we are actually in attainment for every single monitor in the area.

5. **Question/Comment:** But not in actuality?

**Response by Matt Lacke:** Correct, because it not the end of year yet and this year’s data will be used in conjunction with 2008 and 2009 to determine compliance with the standards. But the table I show here is showing that every monitor is attaining the standard if you just look at this year.

6. **Question/Comment:** You mean each individual monitor?

**Response by Matt Lacke:** All it takes is for one monitor to be out of compliance and the whole area is out of compliance. So currently because the latest averaging period is 07-09 and the North Birmingham area monitor was above the standard at 15.1, it left us in non-attainment of the standard. But for 2008-2010 so far we show all monitors are in attainment, which would be below 15 micrograms per cubic meter. Any one monitor exceeding the standard puts us out of attainment.

7. **Question/Comment:** It is my understanding that black smoke coming out of diesel trucks is that PM? You have this series of monitors and one is and you have this online trying these trucks would you think that would make a serious consideration of the PM 2.5. You have these different monitors specifically near McAdory and you have this online train facility and these trucks coming in. Will that make a difference in the concentration of PM that might be listing at that monitor?

**Response by Matt Lacke:** We do not know at this time.
8. **Question/Comment:** But what I’m saying is that it is online. They say they have about 400-500 different tractor trailers coming in down there. Do you think that would change the monitors in that area?

Response by Matt Lacke: What we’ve seen so far, there is no indication that this would lead to a violation at the monitor.

Response by Steve Ostaseski: But it is best to always deal with facts.

Response by Dale Hurst: One thing that is coming down the line, there is a lot of off-road mobile source regulations that EPA is putting out that deals with the fuels and the engines themselves, so not only will the trains, but the trucks coming into that area will be cleaner, that’s across the board, across the country so you should see some improvements.

Response by Steve Ostaseski: If I remember correctly, there’s about a 7% turnover in trucks each year and the new ones coming online are cleaner.

Response by Dale Hurst: The regulations just came out for 2007 engines, they had to have all control equipment on them so anything after 2007 has these control measures from the factory and we have an active plan using stimulus funds where we are trying to retrofit some of the biggest equipment that doesn’t fall under that regulation.

Response by Bill Foisy: According to the Federal Highway Administration, Long-Range Transportation Plan and Transportation Improvement Program Conformity (Air) are not applicable to the proposed Norfolk Southern intermodal freight facility given that it is not a U.S. DOT funded surface transportation project. In addition, no highway capacity projects are programmed which are the bases for transportation conformity analysis. An Air Quality Technical Report, May 2010, is included as part of the Environmental Assessment approved for advertisement of availability for public review by the Federal Highway Administration and the Federal Railroad Administration, October 2010.

9. **Question/Comment:** So what you’re saying about trucks that come in that are pre-2007?

Response by Dale Hurst: It’s hard to say, but as we go on the fleets are going to turn over. Diesel engines can last years. They can go on a long time, but as that fleet turns over, you’re going to start phasing these things out, but even still again we’re trying to also use some retrofit projects. I know you mentioned the train hub down there, US Steel well we just went and retrofit 33 of their engines down there on the switchyard and control equipment so that’s going to help a lot. We’ve talked to CSX too.

10. **Question/Comment:** As of today it is pollution in these areas, Wylam and North Birmingham, it is high.
Response by Matt Lacke: Through October 15, preliminary data shows we will be in compliance with the PM2.5 standards. We are currently below the standard at every single monitor for both the annual and the 24-hour standards for PM 2.5.

11. Question/Comment: Are there other monitors in this area?

Response by Matt Lacke: No, these are the only monitors.

12. Question/Comment: What roles does the city of Huntsville Conservation and Natural Resources play in all of this for Jefferson County?

Response by Matt Lacke: They play no role at all. They are a local agency as well, but they deal with the Huntsville area. JCDH and ADEM deal with our area.

13. Question/Comment: So each area would really have its own regulatory agency? Are those the only ones?

Response by Matt Lacke: No. Those are the only ones in the State of Alabama.

14. Question/Comment: What about the other areas that are under non-attainment?

Response by Matt Lacke: Those would fall under ADEM’s jurisdiction.

Response by Dale Hurst: Everything but Jefferson County, which we have a hand in also.

15. Question/Comment: Just going back to the question about Wylam and North Birmingham. The chart shows that overall these monitors, they decrease, but is there an idea about what is different in these two areas compared to the others?

Response by Matt Lacke: There are several reasons. One is that there is an urban core that has a lot of traffic with I-59/20 and I-65. There is also a lot of industry throughout the area and the area is also within a valley, so it traps in the pollution as well. So the combination of several things is the reason why those two monitors are higher than the others in the Birmingham area.

16. Question/Comment: Would the valleys be more reason to use a monitor to get information? Did you pick that area for a reason?

Response by Matt Lacke: Yes, all monitors were picked for a specific reason. They all had to be approved by EPA before they were actually installed at these locations.

17. Question/Comment: Do you have a theory on why the decrease over time?
Response by Matt Lacke: There are several reasons. We have a state implementation plan that was put together by ADEM and JCDH that led to controls being put in place in some facilities and a decrease in emissions in vehicles over time due to better manufacturing. You could even say the recent economy has played a role somewhat too in that some facilities are not running at full steam, so they are putting out fewer emissions as well.

18. **Question/Comment:** The closing of US Pipe and several other industries over in North Birmingham area is basically helping the air over in that side of town.

   **Response by Matt Lacke:** Yes, to some extent.

19. **Question/Comment:** Is that the biggest reason?

   **Response by Matt Lacke:** I’m not sure that is the biggest reason, but it has helped.

20. **Question/Comment:** Obviously MOVES came out this year so it was not used to establish the budget for the SIP?

   **Response by Dale Hurst:** That is correct. MOBILE 6 was used for that.

21. **Question/Comment:** Was it used for this conformity determination?

   **Response by Harry He:** Yes

22. **Question/Comment:** As for data, I know MOBILE 6 has a bunch of national defaults and is that the same case as with MOVES?

   **Response by Dale Hurst:** There are defaults you can use but by and large we try to get the data. We’ve done a lot of calculations to try to get the vehicle miles down right for the different areas. We’ve worked with the RPC to get some data. We try to use the latest plan when we can. Sometimes we just don’t have the information to use so we use defaults in developing the model and that can cover pretty much any area. It’s not as accurate as having the exact data but again we try to gather all the exact data we can from places like the RPC and ALDOT.

23. **Question/Comment:** So for the age distribution do you use national defaults or actual aging?

   **Response by Dale Hurst:** Yes defaults for age distribution. We had difficulty working with the revenue department due to privacy issues.

24. **Question/Comment:** Did you work with the motor vehicle department?

   **Response by Dale Hurst:** That’s who we worked with. We tried.
25. **Question/Comment:** You talked about mobile sources. Tell us about some non-mobile sources. What about the power plants that are still in operation? I know they are putting in a lot of devices on the smoke stacks but can you talk a little bit about that?

   **Response by Dale Hurst:** For the modeling aspects on what they’re doing for power plants right now?

26. **Question/Comment:** How that’s helping the situation.

   **Response by Dale Hurst:** That would actually be modeled outside of this. This model is strictly for mobile sources. This is just 100% mobile sources. We do have other models that run point sources and area but those are handled in another way.

27. **Question/Comment:** What is the default for Walker County under the types of data collected for the traveling of the freeways and ramps?

   **Response by Dale Hurst:** Those allude to the defaults. There is not a lot of data in that area and they use the defaults to get the answers for Walker County.

28. **Question/Comment:** What about the Shelby County model?

   **Response by Dale Hurst:** Right now I believe it’s good as far as PM 2.5 and Ozone. We may have problems with ozone with the new standards that are coming out. The new standards are going to be quite tough on any monitor anywhere you look. It’s going to be hard to meet that standard. As the standard goes down the target gets smaller and smaller and it gets a lot harder to meet that standard and that’s were a lot of different plans are going to have to come in. We’re going to have to look at mainly regional programs are going to be coming out to deal with emissions from power plants and even cars. For vehicles there are a lot of federal program that are coming out. I mentioned the diesel engine regulations are coming so there’s a lot of different plans like that we’re going to rely on but we will continue any monitor that’s in a non-attainment area we will be able to go in and look at all possibilities to see if any local controls can be put in and we did that with the 24-hour PM 2.5.

29. **Question/Comment:** Will all of the power plants have to comply with the order or if they were in use before the new guidelines come in? They have to conform to the new guidelines?

   **Response by Dale Hurst:** They’ll have a time period to get them in there but the new program that’s coming out is under the federal transport rule. It’s going to require control of certain types of industry, power plants are going to be one. They are looking at other types of control programs that are coming down and they are going to be required to meet whatever is required in the new rule.
30. **Question/Comment:** How long do they have to comply?

   **Response by Dale Hurst:** Right now I’m not sure but they will have a few years to get in there because these aren’t small devices that they put on there. Literally some of those devices are as big as this building almost. They’re big huge program so it takes a while to get those in place and they’re expensive.

31. **Question/Comment:** What’s the name of the NEPA Program?

   **Response by Dale Hurst:** Federal Transport Rule. It’s not out yet but it’s on its way by early next year. They’ve got a draft out but they don’t have the final.

32. **Question/Comment:** On the Statewide Improvement Program, with establishing a budget, will ADEM at some point be required to revisit the budget on the Statewide Improvement Program using MOVES instead of MOBILE 6?

   **Response by Dale Hurst:** Harry He looked at that and right now it is what it is. You’re going to have to go back and redo the budget, but anything from now on will be used for MOVES.

   **Response by Harry He:** That’s the issue nationwide, not just for us, so this is the issue the MPO looked at. I don’t know how they will resolve these issues. For us we have the same issues. So we look at it and calculate it. This is a new process right now.

33. **Question/Comment:** Is there any certain communities you do not go in with CommuteSmart?

   **Response by Lindsey Gray:** This program is for anyone that is living or working in Jefferson or Shelby County. So if somebody is commuting from Huntsville into Birmingham they would be eligible.

34. **Question/Comment:** Is this group a non-profit?

   **Response by Lindsey Gray:** We’re a federally funded program but we’re not a non-profit.

35. **Question/Comment:** Do you have any kind of contract?

   **Response by Lindsey Gray:** We are employed by the RPC. The vanpool site is contracted through VPSI.

36. **Question/Comment:** What happens after somebody has to use the emergency service more than 5 times?
Response by Lindsey Gray: Then they can call us. We’ll try to assist them but they know they only get 5 a year.
APPENDIX A

(Outreach Notification)
Public Involvement Meeting

Air Quality Conformity Determination for
24-hour Particulate Matter 2.5 (PM2.5) Standard
for the 2035 Regional Transportation Plan (RTP)
and the Rebalanced FY2008-2011
Transportation Improvement Program (TIP)

DATE/TIME: Wednesday, October 20, 2010, 12:00 Noon - 1:30 p.m.

PLACE: Regional Planning Commission of Greater Birmingham
First Floor Conference Room
1731 First Avenue North, Birmingham, AL 35203

PURPOSE: To obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Standard for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate that the 2035 Regional Transportation Plan (RTP) and the rebalanced Fiscal Year (FY) 2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

SPONSORED BY: Regional Planning Commission of Greater Birmingham (RPCGB) on behalf of the Birmingham Metropolitan Planning Organization (MPO)

Visit www.bhammpo.org., “Upcoming Events” for additional information after September 23, 2010. Anyone requiring special accommodations should contact Cissy Edwards-Crowe at RPC (205) 251-8139 at least one week prior to the meeting.
Air Quality Conformity Determination for 24-hour Particulate Matter 2.5 (PM2.5) Standard for the 2035 Regional Transportation Plan (RTP) and the Rebalanced FY2008-2011 Transportation Improvement Program (TIP)

DATE/TIME: Wednesday, October 20, 2010, 12:00 Noon - 1:30 p.m.
PLACE: Regional Planning Commission of Greater Birmingham
1st Floor Conference Room, 1731 First Avenue N., Birmingham, AL

PURPOSE: To obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Standard for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate that the 2035 Regional Transportation Plan (RTP) and the rebalanced Fiscal Year (FY) 2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

SPONSORED BY: Regional Planning Commission of Greater Birmingham (RPCGB) on behalf of the Birmingham Metropolitan Planning Organization (MPO). Visit www.bhammpo.org, “Upcoming Events” for additional information after September 23, 2010. Anyone requiring special accommodations should contact Cissy Edwards-Crowe at RPC (205) 251-8139 at least one week prior to the meeting.
MEMORANDUM

TO: Metropolitan Planning Organization
    Transportation Citizens Committee
    Transportation Technical Committee

FROM: William R. Foisy, Director, Transportation Planning

SUBJECT: Public Involvement Meeting
          October 20, 2010

A Public Involvement Meeting will be held on Wednesday, October 20, 2010, 12:00 p.m. – 1:30 p.m. at the Regional Planning Commission of Greater Birmingham, 1731 First Avenue North, Birmingham, First Floor Conference Room.

The purpose of this meeting is to obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Standard for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate that the 2035 Regional Transportation Plan (RTP) and the rebalanced Fiscal Year (FY) 2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

For additional information, visit [www.bhammpo.org](http://www.bhammpo.org), Upcoming Events.

Thank you and I look forward to seeing you at the meeting.

WRF:cec
October 1, 2010

Dear Librarian:

The Regional Planning Commission of Greater Birmingham, on behalf of the Birmingham Metropolitan Planning Organization, will be holding a public involvement meeting **Wednesday, October 20, 2010, from 12:00pm-1:30pm at the Regional Planning Commission of Greater Birmingham, First Floor Conference Room located at 1731 1st Avenue North, Birmingham, AL 35203**.

The purpose of this meeting is to obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Determination for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate the 2035 Regional Transportation Plan (RTP) and the rebalanced Fiscal Year (FY) 2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

We would appreciate your support by placing the flyers in a prominent place for your patrons. If you are in need of more materials, please do not hesitate to call me at the Regional Planning Commission of Greater Birmingham, (205) 251-8139.

Thank you for your help.

Sincerely,

Cissy Edwards Crowe  
Regional Planning Commission of Greater Birmingham
September 23, 2010

Dear Neighborhood Association President:

The Regional Planning Commission of Greater Birmingham, on behalf of the Birmingham Metropolitan Planning Organization, will be holding a public involvement meeting Wednesday, October 20, 2010, from 12:00pm to 1:30pm at the Regional Planning Commission of Greater Birmingham located at 1731 1st Avenue North, Birmingham, AL 35203.

The purpose of this meeting is to obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Standard for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate the 2035 Regional Transportation Plan (RTP) and the rebalanced Fiscal Year (FY) 2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

We would appreciate your support by distributing the fliers in your neighborhood. If you are in need of more materials, please do not hesitate to call me at the Regional Planning Commission of Greater Birmingham, (205) 251-8139.

Thank you for your help.

Sincerely,

Cissy Edwards Crowe
Regional Planning Commission of Greater Birmingham
AFFIDAVIT OF PUBLICATION

THE BIRMINGHAM NEWS COMPANY

PUBLISHERS OF

THE BIRMINGHAM NEWS

On this 17th day of October

A.D. Two Thousand , and Ten, Vickie Webb

declares that she is an Accounting Clerk of "The

Birmingham News" published in the City of

Birmingham, in the County of Jefferson, in the State

of Alabama, and that the advertisement, a true copy of

which is herewith attached, appeared in "The

Birmingham News" on the following dates:

October 17, 2010

Oct. 6, 2010

Oct. 10, 2010

Oct. 13, 2010

Signed- Vickie Webb

State of Alabama

County of Jefferson

On 10-17-2010, Vickie Webb

personally appeared before me, who is personally known
to me to be the signer of the above document, and she

acknowledged that she signed it.

Rebecca Ratliff Hill

Rebecca Ratliff Hill, Notary Public

MY COMMISSION EXPIRES JUNE 7, 2014

DATE RECEIVED:

APPROVED:

10-22-2010

Date:

Date:

Date:
STATE OF ALABAMA  
SHELBY COUNTY  

Personally appeared before me, the undersigned Notary Public, in and for said state and county, **Tim Prince**, who, being duly sworn according to the law deposes and says that he is Publisher of the *Shelby County Reporter*, a newspaper published in said county, and the publication of a certain notice, a true copy of which is hereto affixed, has been made in said newspaper week(s) consecutively, to-wit in issues thereof dated as follows:

- **6** day of **October**, 2010
- **13** day of **October**, 2010
- **____** day of **___________**, 2010
- **____** day of **___________**, 2010

[Signature]
Publisher, Shelby County Reporter

Sworn to and subscribed before me this **13** day of **October**, 2010.

[Signature]
Notary Public,  
State of Alabama at large

My commission expires 04-13-2014
AFFIDAVIT OF PUBLICATION

James E. Lewis, Sr.
President/Publisher of
The Birmingham Times
Agents for the State of Alabama, County of Jefferson

On this day: 10/14/10

personally appeared before me, Mary Jo Robinson, Notary Public, in and for the County and State aforesaid: James E. Lewis, Sr., who being duly sworn according to law, declares that he is the President/Publisher of The Birmingham Times Publication, in the City of Birmingham and in the County of Jefferson, State of Alabama, that the advertisement, a true copy of which, is herewith attached, appeared in The Birmingham Times on the following dates:

1. 10/07/10
2. 10/14/10
3.
4.
5.

Signed: [Signature]

Subscribed and sworn to me, Mary Jo Robinson, this day: 10/14/10

MY COMMISSION EXPIRES: July 25, 2012

Notary Public
For Immediate Release
October 13, 2010

Contact: Cissy Crowe, (205) 251-8139
Regional Planning Commission of Greater Birmingham

Public Involvement Meeting
Air Quality Conformity Determination for 24-Hour Particulate Matter 2.5 (PM2.5) Standard
For the 2035 Regional Transportation Plan (RTP) And the Rebalanced FY2008-2011 Transportation Improvement Program (TIP)

Purpose: To obtain public comments on the Air Quality Conformity Determination for 24-hour PM2.5 Standard for Jefferson and Shelby Counties and a small portion of Walker County to demonstrate that the that the 2035 Regional Transportation Plan (RTP) and the rebalanced FY2008-2011 Transportation Improvement Program (TIP) meet the interim air quality conformity requirements for the 24-hour PM2.5 standard.

Sponsored by: Regional Planning Commission of Greater Birmingham (RPCGB) on behalf of the Birmingham Metropolitan Planning Organization (MPO).

Wednesday, October 20, 2010, 12:00 p.m. - 1:30 p.m.
Regional Planning Commission of Greater Birmingham
First Floor Conference Room, 1731 First Avenue North- Birmingham, AL

You are cordially invited to attend and participate in this public involvement meeting. Visit www.bhammpo.org, Upcoming Events for additional information. Anyone requiring special accommodations should contact Cissy Edwards Crowe at RPCGB (205-251-8139) at least one week in advance.

***
October 19, 2010

Media Advisory

EVENT: Public Involvement Meeting

DATE: October 20, 2010

TIME: 12:00 Noon – 1:30 p.m.

PLACE: Regional Planning Commission of Greater Birmingham
First Floor Conference Room
1731 First Avenue North, Birmingham, AL 35203

COMMENTS: The public is invited to provide comments and opinions on the Air Quality Conformity Determination for 24-hour Particulate Matter 2.5 (PM2.5) for the 2035 Regional Transportation Plan and the Rebalanced Fy2008-2011 Transportation Improvement Program (TIP). Visit www.bhammpo.org, “Upcoming Events” for additional information.

CONTACT: Cissy Edwards Crowe, Public Information Officer
Regional Planning Commission of Greater Birmingham on behalf of the Birmingham Metropolitan Planning Organization (MPO)
Telephone: (205) 264-8402  FAX: (205) 328-3304 , Email: cedwards@rpcgb.org

###
APPENDIX B

(Information Distributed)
This page intentionally left blank
Public Involvement Meeting

Air Quality Conformity Determination
24-hour Particulate Matter 2.5 Standard

Steve Ostaseski, Principal Planner
October 20, 2010
According to the Code transportation plans and programs must demonstrate compliance with conformity requirements.

This means that projects in the 2035 Regional Transportation Plan (RTP) must not exceed the budget for pollutant emissions.
Particulate Matter

Matt Lacke
Air and Radiation Protection Division
Jefferson County Department of Health

Clean Air Act

- In the mid 1960’s environmental issues became a focus in the U.S.
- Enacted in 1970; revisions in 1977 and 1990
- Required EPA to establish National Ambient Air Quality Standards (NAAQS)
  - Established for six criteria pollutants
    - ozone
    - particulate matter
    - carbon monoxide
    - sulfur dioxide
    - nitrogen dioxide
    - lead
Regulatory Agencies in Alabama

- Alabama Department of Environmental Management
- Jefferson County Department of Health
- City of Huntsville Department of Natural Resources

Particulate Matter

- A mixture of microscopic solids and liquid droplets suspended in air
- “Coarse” particles (PM$_{10}$)
  - Particles between 2.5 and 10 micrometers in diameter
- “Fine” particles (PM$_{2.5}$)
  - Particles less than 2.5 micrometers in diameter
Particulate Matter

Human Hair (70 µm diameter)

PM$_{2.5}$ (2.5 µm)
PM$_{10}$ (10 µm)

Health Risks of Particulate Matter

• Symptoms:
  – Irritation of the eyes, nose, and throat
  – Coughing
  – Chest tightness
  – Shortness of breath

• Groups at greatest risk:
  – Children
  – Older adults
  – Those with lung or heart diseases are at increased risk
Recent History of PM$_{2.5}$

- 2005: EPA designated the Birmingham area as nonattainment of the annual PM$_{2.5}$ standard (15 $\mu$g/m$^3$)

- 2009: EPA designated the Birmingham area as nonattainment of the 24-hour PM$_{2.5}$ standard (35 $\mu$g/m$^3$)

- 2010: ADEM submitted a redesignation request for the 24-hour PM$_{2.5}$ standard
2010 PM$_{2.5}$ Data

- Data presented is only through September 2010 and the final data for 2010 will include October – December 2010

- Not all data has not been through QA/QC

- 2010 data will be combined with 2008 and 2009 data to determine compliance with the annual and 24-hour PM$_{2.5}$ NAAQS
### Annual PM$_{2.5}$
**January 1 – September 30, 2010**

<table>
<thead>
<tr>
<th>Monitoring Site</th>
<th>Annual Average (μg/m$^3$)</th>
<th>Above the NAAQS (15 μg/m$^3$)?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner</td>
<td>11.2</td>
<td>NO</td>
</tr>
<tr>
<td>Hoover</td>
<td>11.1</td>
<td>NO</td>
</tr>
<tr>
<td>Leeds</td>
<td>13.3</td>
<td>NO</td>
</tr>
<tr>
<td>McAdory</td>
<td>12.1</td>
<td>NO</td>
</tr>
<tr>
<td>North Birmingham</td>
<td>14.3</td>
<td>NO</td>
</tr>
<tr>
<td>Pinson</td>
<td>11.3</td>
<td>NO</td>
</tr>
<tr>
<td>Providence</td>
<td>10.8</td>
<td>NO</td>
</tr>
<tr>
<td>Wylam</td>
<td>13.3</td>
<td>NO</td>
</tr>
</tbody>
</table>

#### PM$_{2.5}$ 24-Hour 98th Percentile Design Values

- NAAQS = 65 μg/m$^3$
- NAAQS = 35 μg/m$^3$
<table>
<thead>
<tr>
<th>Monitoring Site</th>
<th>98(^{th}) Percentile (µg/m(^3))</th>
<th>Above the NAAQS (35 µg/m(^3))?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corner</td>
<td>20.8</td>
<td>NO</td>
</tr>
<tr>
<td>Hoover</td>
<td>19.8</td>
<td>NO</td>
</tr>
<tr>
<td>Leeds</td>
<td>23.1</td>
<td>NO</td>
</tr>
<tr>
<td>McAdory</td>
<td>22.5</td>
<td>NO</td>
</tr>
<tr>
<td>North Birmingham</td>
<td>27.8</td>
<td>NO</td>
</tr>
<tr>
<td>Pinson</td>
<td>19.2</td>
<td>NO</td>
</tr>
<tr>
<td>Providence</td>
<td>19.9</td>
<td>NO</td>
</tr>
<tr>
<td>Wylam</td>
<td>25.2</td>
<td>NO</td>
</tr>
</tbody>
</table>
What is MOVES?

- **MOtor Vehicle Emission Simulator**
- State-of-the-art modeling framework
- Replaces MOBILE for on-road vehicle emissions
  - Significant expansion of capabilities compared to MOBILE
  - Will also eventually include nonroad emissions to replace separate NONROAD model
- Designed to allow easier incorporation of large amounts of in-use data from a variety of sources
  - MOBILE structure had limited ability to incorporate new emissions data
MOVES Versions

- The draft model for MOVES was released in April 2009
- Improvements and updates were incorporated after analysis of the draft
- MOVES2010 was approved in March 2010 for state and local planning

Types of Data

- **Age Distribution** – vehicle counts by age for each calendar year and vehicle type
- **Average Speed Distribution** – average speed data specific to vehicle type, road type, and time of day.
- **Fuel Formulation** – defines the attributes of each fuel
- **Fuel Supply** – identifies the fuel formulations used in the area and its respective market share
- **Meteorology Data** – Local temperature and humidity data for each County
- **Ramp Fraction** - based on ratio of Vehicle Hours Traveled on freeways and ramps except for Jefferson and Shelby Counties, default for Walker County
Types of Data

- **Source Type Population** – Motor vehicle registration of State Revenue Department by vehicle class for base year, calculate the distribution by vehicle class for projections.
- **Road Type Distribution** – percentage based on the VMT by functional classification
- **Vehicle Type VMT** – through distribution percentage by vehicle type based on VMT by functional classification, weekday or daily VMT by functional classification has to be converted to annual VMT since MOVES requires annual VMT.

Use of MOVES Data

- Used by ADEM in SIP development to set the mobile emissions budget for certain pollutants
- Budget then used in the transportation planning process
- Projects in the transportation plan must meet or fall below the budget for pollutant emissions
About CommuteSmart

- An initiative of the Regional Planning Commission of Greater Birmingham
- Created in 1999
- Mission is to help alleviate traffic congestion and reduce air pollution in Jefferson and Shelby counties
- Encourages individuals to change commuting habits & educates on cleaner modes of transportation
- Federally-funded program
- All services are provided at no cost
Commuting Facts

- Average one-way commute is 28½ minutes for Jefferson and Shelby County commuters
- 85.40% of Jefferson and Shelby County commuters drive alone
- Birmingham ranked 3rd worst traffic in the U.S. (based on total drive time)
- Average Birmingham commuter wastes 32 hours per year in traffic and 21 gallons of fuel
- From 1997-2007, commute time in Birmingham increased 75%
- Congestion cost in Birmingham is $267 million per year

Program Benefits

- Ridematching Database
- Commuter Rewards Programs
- Vanpool Program (with Monthly Subsidy)
- Emergency Ride Home Program
- Company/Employee Outreach and Education
- Cost Savings and Decreased Fuel Consumption
- Improves Air Quality to Assist in Economic Growth
- Aids in Reduction of Traffic Congestion and Parking Issues
Potential Monthly Cost Savings
(Based on average work commuter)

The average yearly amount spent on a car is $10,071.36.

- Drive Alone: $839.28
- Flex Schedule: $671.42
- Telework (2x a Wk): $503.57
- Carpooling: $419.64
- Vanpooling: $129.29

Estimated Cost Savings for 1-Month (Work Commute)

Ridematching

- Register online at www.commutesmart.org
- Information is confidential
- Database with 10,000+ commuters
- See carpool and vanpool options
- Match with a Walk or Bike Buddy
- Coordinate with people from ridematch list
• Commuters that have completed the GetGreen program
• Commuters are automatically enrolled
• $25 Gas Card per quarter
• Minimum of 20 commutes
• Track behavior monthly
• Vanpoolers not eligible

What is a clean commute?
Carpooling  Teleworking  Walking  Transit  Biking

Emergency Ride Home
ERH is a safety net for commuters*
○ For anyone participating in CommuteSmart – including vanpool participates
○ Covers sickness, family emergency or unexpected overtime
○ Rental car reimbursement (for anyone living 50 miles or more from work location)
○ Taxi ride home
○ Mileage reimbursement for anyone that provides you a ride home
○ 5 times per year per commuter
○ Free service
Vanpool Program
- Vanpools typically commute 30+ miles round trip
- Participants share the operating cost of the van

It takes 5 to 7 people to start a vanpool

VANPOOL BENEFITS
- Van is provided by CommuteSmart
- Insurance and routine maintenance is provided
- $400-$450 monthly subsidy for each van
- Reduce “wear & tear” on your car
- Enjoy a less stressful commute & save money

Program Success

CLEAN COMMUTE STATS (Jan ‘10 – Aug ‘10)
(Carpool, Walk, Bike, Transit, Telework)
Vehicle Miles Reduced: 2,637,358 Miles
Fuel Saved: 104,657 Gallons
Fuel Cost Savings: $272,422
Commuter Cost Savings (Est.): $1,492,744

VANPOOL STATS (Jan ‘10 – July ‘10)
Vehicle Miles Reduced: 2,786,490 Miles
Fuel Saved: 110,575 Gallons
Fuel Cost Savings: $287,827
Commuter Cost Savings (Est.): $1,577,153

According to AAA, car maintenance and insurance is 56.6 cents
According to AAA, national average of gas is $2.603 per gallon
Contact Us

CommuteSmart Birmingham
1731 First Avenue N., Suite 200
Birmingham, AL 35203

1-87-RIDEMATCH

www.commutesmart.org

Lindsey Gray
Program Manager
(205) 264-8429
lgray@rpcgb.org

T. Ray Mauldin
Vanpool Manager
(205) 264-8462
tmauldin@rpcgb.org
APPENDIX C

(Display Information)
### Particulate Matter (PM 2.5)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Emissions (Short Tons/Day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2.15</td>
</tr>
<tr>
<td>2012</td>
<td>1.87</td>
</tr>
<tr>
<td>2015</td>
<td>1.46</td>
</tr>
<tr>
<td>2018</td>
<td>1.31</td>
</tr>
<tr>
<td>2021</td>
<td>1.16</td>
</tr>
<tr>
<td>2024</td>
<td>1.08</td>
</tr>
<tr>
<td>2030</td>
<td>1.02</td>
</tr>
<tr>
<td>2035</td>
<td>1.05</td>
</tr>
</tbody>
</table>

**PM2.5**: Particulate Matter with a diameter of up to 2.5 microns for 24-hour PM$_{2.5}$ Standard

**Base Year** PM 2.5

**Base year** is 2008, baseline year test
<table>
<thead>
<tr>
<th>Map ID</th>
<th>Project Name</th>
<th>Federal Cost (Current $2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>SR 79 North Jefferson County</td>
<td>$24,185,541</td>
</tr>
<tr>
<td>9</td>
<td>SR-70 Central Shelby County</td>
<td>$4,286,735</td>
</tr>
<tr>
<td>22</td>
<td>I-65 Central/South Shelby County</td>
<td>$75,206,943</td>
</tr>
<tr>
<td>34</td>
<td>State Route 119 - Cahaba Valley</td>
<td>$39,172,510</td>
</tr>
<tr>
<td>59</td>
<td>US 78 - Birmingham</td>
<td>$10,371,333</td>
</tr>
<tr>
<td>67</td>
<td>I-20 - Birmingham/Ensley</td>
<td>$19,489,327</td>
</tr>
<tr>
<td>78</td>
<td>Helena Bypass</td>
<td>$15,061,479</td>
</tr>
<tr>
<td>83</td>
<td>Valleydale Road</td>
<td>$5,302,191</td>
</tr>
<tr>
<td>84</td>
<td>Finley Boulevard Extension</td>
<td>$14,990,111</td>
</tr>
<tr>
<td>108</td>
<td>Caldwell Mill Road</td>
<td>$1,479,800</td>
</tr>
<tr>
<td>109</td>
<td>Morgan Road/CR 52</td>
<td>$9,148,488</td>
</tr>
<tr>
<td>112</td>
<td>Patton Chapel Road</td>
<td>$69,837</td>
</tr>
<tr>
<td>113</td>
<td>Hoover TOPICS Phase 3</td>
<td>$7,013,597</td>
</tr>
<tr>
<td>114</td>
<td>Lakeshore Parkway Extension</td>
<td>$19,907,692</td>
</tr>
<tr>
<td>120</td>
<td>Shelby County Road -11</td>
<td>$5,435,783</td>
</tr>
<tr>
<td>125</td>
<td>Gardendale Main Street</td>
<td>$1,709,846</td>
</tr>
<tr>
<td>128</td>
<td>East Lake Blvd. (Phase 2)</td>
<td>$400,154</td>
</tr>
<tr>
<td>129</td>
<td>Tarrant-Huffman Road</td>
<td>$6,071,386</td>
</tr>
<tr>
<td>130</td>
<td>Jefferson County TOPICS Phase 9</td>
<td>$3,412,792</td>
</tr>
<tr>
<td>141</td>
<td>State Route 261 - Hoover/Pelham</td>
<td>$18,551,569</td>
</tr>
<tr>
<td>151</td>
<td>Corridor X</td>
<td>$237,349,383</td>
</tr>
<tr>
<td>162</td>
<td>I-65 - South Shelby County</td>
<td>$24,610,294</td>
</tr>
<tr>
<td>172</td>
<td>*Corridor X-1 (Northern Beltline)</td>
<td>$1,305,084,001</td>
</tr>
<tr>
<td>183</td>
<td>State Route 150 - Ross Bridge</td>
<td>$5,823,559</td>
</tr>
<tr>
<td>226</td>
<td>Calera Northern Bypass</td>
<td>$5,135,770</td>
</tr>
<tr>
<td>263</td>
<td>Valleydale Road (CR 17) Inverness</td>
<td>$12,474,834</td>
</tr>
<tr>
<td>265</td>
<td>Coalburg Road</td>
<td>$11,173,319</td>
</tr>
<tr>
<td>273</td>
<td>16th Street Interchange</td>
<td>$7,004,275</td>
</tr>
<tr>
<td>332</td>
<td>Lakeshore Parkway at Wildwood</td>
<td>$3,362,439</td>
</tr>
<tr>
<td>342</td>
<td>Daniel Payne Drive</td>
<td>$1,476,366</td>
</tr>
<tr>
<td>344</td>
<td>Cherry Avenue/Blossburg Road</td>
<td>$2,710,733</td>
</tr>
<tr>
<td>345</td>
<td>Chapel Lane Extension</td>
<td>$3,412,792</td>
</tr>
<tr>
<td>356</td>
<td>US-11 - Clay/Chalkville</td>
<td>$2,690,706</td>
</tr>
<tr>
<td>357</td>
<td>Rex Lake Road</td>
<td>Stimulus Project</td>
</tr>
<tr>
<td>365</td>
<td>Morgan Road/CR 52</td>
<td>$10,948,994</td>
</tr>
<tr>
<td>411</td>
<td>I-65 - Central Jefferson County</td>
<td>$4,408,510</td>
</tr>
<tr>
<td>420</td>
<td>I-65 S. Jefferson/N. Shelby County</td>
<td>$58,479,006</td>
</tr>
<tr>
<td>424</td>
<td>CR-17 - Helena</td>
<td>$15,654,608</td>
</tr>
<tr>
<td>425</td>
<td>CR-26 (Kent Dairy Rd)</td>
<td>$2,124,045</td>
</tr>
<tr>
<td>426</td>
<td>CR-11 - Shelby County (Phase 1)</td>
<td>$9,403,853</td>
</tr>
<tr>
<td>427</td>
<td>CR-11 - Shelby County (Phase 2)</td>
<td>$5,595,358</td>
</tr>
<tr>
<td>429</td>
<td>CR-52 - Helena</td>
<td>Local Project</td>
</tr>
<tr>
<td>430</td>
<td>CR-26 - Shelby County</td>
<td>Local Project</td>
</tr>
<tr>
<td>434</td>
<td>CR-87</td>
<td>$1,484,820</td>
</tr>
<tr>
<td>436</td>
<td>CR-22 Montevallo</td>
<td>Local Project</td>
</tr>
<tr>
<td>535</td>
<td>US-280 Access Mgmt</td>
<td>$17,799,068</td>
</tr>
<tr>
<td>539</td>
<td>Galleria Boulevard Extension</td>
<td>$2,844,788</td>
</tr>
<tr>
<td>541</td>
<td>I-65 Auxiliary Lane - N. Jefferson</td>
<td>$18,306,085</td>
</tr>
<tr>
<td>642</td>
<td>**Galleria Boulevard Extension</td>
<td>$2,844,788</td>
</tr>
<tr>
<td>657</td>
<td>**I-65 Auxiliary Lanes Hoover</td>
<td>$3,720,000</td>
</tr>
<tr>
<td>658</td>
<td>**I-65 Auxiliary Lanes Hoover/ Homewood</td>
<td>$8,032,000</td>
</tr>
<tr>
<td>659</td>
<td>**I-65 Auxiliary Lanes Homewood</td>
<td>$7,464,000</td>
</tr>
<tr>
<td>660</td>
<td>**I-65 Auxiliary Lanes Birmingham</td>
<td>$3,368,004</td>
</tr>
<tr>
<td>661</td>
<td>**I-65 Auxiliary Lanes City Center</td>
<td>$6,984,000</td>
</tr>
</tbody>
</table>

* : Northern Beltline includes $149,621,752 Federal funds for Preliminary Engineering (Grade & Drain) and Right of Way in segments from I-459 to US 78

** : New projects