**Executive Summary**

**Schley, PI No. 1234567**

**Main Street at Roberts Lane**

**April 2015**

**Project Description:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sed tristique felis. Nullam scelerisque ligula eu magna elementum interdum. In sed consequat turpis, porttitor mollis leo. Suspendisse blandit tincidunt ante, aliquam semper lacus volutpat sit amet. Maecenas scelerisque maximus metus eu mattis. Curabitur sit amet nibh bibendum, vehicula ante a, porta lacus. Vestibulum elementum cursus ligula, suscipit consequat augue luctus quis. Nulla facilisi. Nam quis sem ex. Maecenas accumsan ligula ut lorem dapibus, in sagittis sapien dignissim. In eget fermentum nisl. Sed pretium nibh lectus, ut accumsan dolor volutpat nec. Ut sed est non augue vulputate vehicula ac ut felis. Sed accumsan tristique dolor nec maximus. Ut bibendum massa sit amet rhoncus mollis.

**Ozone: MPO and TIP Number:** This project is identified in the Metro City MPO and FY 2014-2019 Transportation Improvement Program by reference number(s) YT-888

**PM**2.5**:** This project was evaluated by an interagency group consisting of FHWA, EPA, EPD and the MPO and they agreed that this project did not appear to be a "Project of Concern" per the Transportation Conformity Rule and thus meets the statutory and regulatory requirements for PM2.5 hotspots without a qualitative analysis on CONCURRENCE DATE.

**CO Modeling Assumptions:** The highest 1-hour CO concentration of 3.2 ppm in the 2038 design year is projected at receptor 8, located in the all quadrant of the studied intersection. This value is lower than the maximum allowable NAAQS for the one-hour level of 35 ppm and the 8-hour level of 9 ppm.

**MSAT:** The proposed project is classified as a project with no meaningful MSAT effects.

**Conclusion:** This project was evaluated for its consistency with state and federal air quality goals, including CO, Ozone, PM2.5 and MSATs as part of this assessment. Results indicated that the project is consistent with the SIP for the attainment of clean air quality in Georgia and is in compliance with both state and federal air quality standards.

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| Prepared By: John Smith | QC/QA: Randall Stephens |
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| Approved By: GDOT |  |
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# Air Assessment

# Main Street at Roberts Lane

# PI No. 1234567

# April 2015

## Introduction

The 1990 Clean Air Act (CAA) amendments and guidelines, issued by the U.S. Environmental Protection Agency (EPA), set forth guidelines to be followed by agencies responsible for attainment of the National Ambient Air Quality Standards (NAAQS). The CAA section 176(c) requires that Federal transportation projects are consistent with state air quality goals, found in the State Implementation Plan (SIP). The process to ensure this consistency is called Transportation Conformity. Conformity to the SIP means that transportation activities will not cause new violations of the NAAQS, worsen existing violations of the standards, or delay timely attainment of the relevant standard. In complying with these guidelines the Georgia Department of Transportation (GDOT) has completed an analysis on the effects of the proposed project on air quality.

## What is the Proposed Project?

This project will provide left turn lanes and an eastbound right turn lane along Main Street at Roberts Lane

Details:

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## What Criteria Pollutants Are Studied?

The NAAQS have been established for air pollutants that have been identified by the EPA as being of concern nationwide. These air pollutants, referred to as criteria pollutants, are carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO2), particulate matter (PM2.5), ozone (O3) and sulfur dioxide (SO2) The sources of these pollutants, effects on human health and the nation's welfare, and occurrence in the atmosphere vary considerably. In addition to the criteria air pollutants for which there are NAAQS, the EPA also regulates air toxics (MSATs). Due to their association with roadway transportation sources, O3, CO, PM2.5, and MSATs are typically reviewed for potential effects on nearby receptors with respect to roadway projects.

## Is this Project in an Ozone (O3) Non-Attainment Area?

This project is in an area where the SIP contains transportation control measures. The CAA requires Transportation Plans and Transportation Improvement Programs (TIP) in areas not meeting the NAAQS to conform to the emissions budget of the SIP for air quality. The FY 2014-2019 TIP is the current adopted plan for the Atlanta area showing the region's highest transportation priorities. It was adopted by the Atlanta Regional Commission on March 26, 2014, with GRTA Board action on April 9, 2014, and received conformity determination by the US DOT on April 30, 2014.

This project is identified in the Metro City MPO and FY 2014-2019 TIP by reference number YT-888

Inclusion in a conforming plan also serves as project level analysis for O3; no further analysis of O3 emissions is warranted.

## How Will The Project Affect Carbon Monoxide (CO) Emissions?

#### Introduction

The EPA first set air quality standards for CO in 1971. For protection of both public health and welfare, EPA set an eight-hour primary standard at 9 parts per million (ppm) and a one-hour primary standard at 35 ppm. Nationally and, particularly in urban areas, the majority of CO emissions to ambient air come from mobile sources.

Georgia is in attainment for CO; however, CO is also a concern in areas where signalized intersections (due to idling vehicles) are operating at a Level-of-Service (LOS) D, E, or F in the project design year (20 year design horizon).

The LOS is a standard means of classifying traffic conditions associated with various traffic volume levels and traffic flow conditions. There are six levels of service at which a roadway can operate, represented by the letters "A" through "F." Each level is defined by a maximum value for the ratio of traffic volume (V) to facility capacity (C) (see Table 1: LOS). The LOS for signalized intersections is determined by calculating the average control delay per vehicle for the intersection, i.e., the average amount of time it takes a vehicle to get through the intersection.

Table 1. Level of Service (LOS)

|  |  |
| --- | --- |
| Level of Service | Definition |
| A | volume is well below capacity and traffic is flowing freely |
| B | volume is steady, the presence of other vehicles begins to be noticeable |
| C | steady traffic flow, speeds and maneuverability are more closely controlled by traffic volumes |
| D | approaching an unsteady flow in which speed and maneuverability are severely restricted |
| E | traffic flow is reduced to a slow but relatively uniform speeds, and traffic volume is equal to or nearly equal to capacity and maneuverability is extremely difficult |
| F | volume greatly exceeds the capacity and lengthy delays occur |

The proposed project has Roberts Lane at Main Street signalized intersection(s) that would operate at a LOS of D, E, or F in the 2038 design year.

The intersection of Roberts Lane at Main Street has the highest traffic volume at the worst level of service (See Table 2: Signalized Intersections.) Therefore, this intersection has been chosen as a representative intersection. The results of this intersection are considered the worst case for the project corridor.

#### Assessment Methodology

The CAL3QHC model combines the California Line Source Model (CALINE3) developed by the California Department of Transportation, with an algorithm for estimating queue lengths at signalized intersections. The CALINE3 and CAL3QHC models are accepted by the EPA and the Federal Highway Administration (FHWA) as techniques for assessing the air quality impacts that may occur from the operation of motor vehicles on roadways.

#### CO Microscale Model Input Parameters

Inputs to the models were such that they would provide a "worst-case" analysis. The term "worst-case" is frequently used in air quality impact analyses. The approach is to use a set of "worst-case" meteorological conditions: lowest realistic wind speed, worst reasonable stability class, lowest reasonable temperature, highest expected traffic volumes, emissions associated with peak speeds and closest reasonable receptor locations. If the "worst-case" concentration does not violate air quality standards, it can be reasonably assumed that under any future set of actual meteorological conditions, the actual air quality will be better than the standards.

The emission factors used in the CO microscale model were based off of GDOT Rate Tables using the EPA's Motor Vehicle Emission Simulator (MOVES). Emission levels were calculated per site specific criteria, including road grade (0 percent), vehicle mix (95% passenger cars; 2.5% heavy trucks; 2.5% medium trucks), design year (2038), road type (urban unrestricted access), and speed limit (15-40 MPH). All emissions factors were based on temperatures under 70 degrees in the 13-county region. See Attachment X for emission factor worksheets.

Meteorological inputs to the CAL3QHC model were those that would give the worst-case CO concentrations. The wind angle to the roadway was modeled at 10 degree intervals with a wind speed of one meter per second. In general, atmospheric stability is a function of the temperature distribution with height, solar radiation, cloud cover, and wind speed. Stability is identified by six classes ranging from A (very unstable) to F (very stable). A Stability Class D was used for this project. Stable atmospheres contain little turbulence in which pollutant concentrations are high.

A mixing cell height (the elevation of the boundary between the vertically mixed layer of air closest to the earths surface and the relatively stable layer of air above) of 1000 meters, the default value of CAL3QHC, and a surface roughness (the proportional measure of the height of obstacles to the wind flow) factor of 321 cm was used. See Table 3: Surface Roughness Lengths for Various Land Uses below. All roadway segments were modeled as at-grade facilities. Peak PM hourly traffic volumes were used as the worst-case conditions for the one-hour analysis.

The background concentration is usually defined as the concentration immediately upwind of the source. Through an agreement with the Georgia EPA, background CO concentration is considered to be only a small portion of the total input to the micro scale analysis. A background concentration of 1 ppm is added for rural areas, 2 ppm for suburban areas, and 3 ppm for urban areas. A background concentration of 2 ppm has been added to the air quality dispersion modeling results. The intersection Roberts Lane at Main Street was analyzed for the 2038 build and no-build alternatives. See Attachment X for CO inputs.

Receptor locations were identified to perform pollutant calculations. There were 16 receptors chosen in the no-build conditions and 16 receptors were chosen in the build condition. These locations were chosen because they represent the closest location where the public is likely to be present. Due to their proximity to the signal controlled intersection, these receptors would provide the highest concentrations of CO from the operations of the roadways.

Table 3: Surface Roughness Lengths for Various Land Uses

|  |  |
| --- | --- |
| City Land Use Surface Type | Surface Roughness Length (cm) |
| Apartment Residential | 370 |
| Central Business District | 321 |
| Office | 175 |
| Park | 127 |
| Single Family Residential | 108 |

Sensitive receptors, defined as hospitals, nursing homes, schools, and other institutional facilities, were also considered as a part of this study. No facilities of these types are located proximate to the studied intersection; therefore, no special considerations were made for sensitive receptors.

#### CO Microscale Model Summary of Results

The State of Georgia and the EPA have set the maximum acceptable average CO concentrations at 35 ppm for a one-hour period, and 9 ppm for a continuous eight-hour period. The peak one-hour concentrations for 2038 build and no-build were predicted and are listed below in Table 4: Predicted Highest One-Hour CO concentrations (ppm). A copy of the model run data input and outputs are included in Attachment X. The highest 1-hour CO concentration of 3.2 in the 2038 design year is projected at receptor 8, located in the all quadrant of the studied intersection. This value is lower than the maximum allowable NAAQS for the one-hour level of 35 ppm and the eight-hour level of 9 ppm. Since the highest one hour concentration is lower than both the one hour and eight hour standards, an eight hour concentration was not calculated. (Note eight-hour concentrations are calculated by multiplying the CAL3QHC results by a persistent factor of 0.6 and adding the background concentration to the results.)

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| --- | --- |
| Figure 2. Existing/NoBuild | Figure 3. Build |

Table 4: Predicted Highest One-Hour CO concentrations (ppm)

|  |  |  |  |
| --- | --- | --- | --- |
| Receptors | Existing | No Build | Build |
| Receptor 1 | 12.8 | 12.8 | 12.8 |
| Receptor 2 | 13.6 | 13.6 | 13.6 |
| Receptor 3 | 13.4 | 13.4 | 13.4 |
| Receptor 4 | 11.4 | 11.4 | 11.4 |
| Receptor 5 | 11.8 | 11.8 | 11.8 |
| Receptor 6 | 8.9 | 8.9 | 8.9 |
| Receptor 7 | 11.0 | 11.0 | 11.0 |
| Receptor 8 | 11.0 | 11.0 | 11.0 |

Note: a background concentration of 2 ppm has been added to the air quality model results.

The results of the microscale analysis for the project area demonstrated that CO concentrations would not exceed state or federal air quality standards through the predicted design year traffic estimates. It is concluded that this project is consistent with region wide air quality goals and is consistent with the SIP for air quality.

## Is this project in a PM2.5 Non-Attainment Area?

Transportation conformity is required for federal transportation projects in areas that have been designated by the EPA as not meeting the NAAQS. These areas are called non-attainment areas if they currently do not meet air quality standards or maintenance areas if they have previously violated air quality standards, but currently meet them and have an approved maintenance plan. On January 5, 2005, The EPA designated 24 counties and three partial counties in Georgia as non-attainment areas for fine particular matter, called PM2.5. This designation became effective on April 5, 2005, 90 days after EPA's published action in the Federal Register. Transportation Conformity for the PM2.5 standards applies as of April 5, 2006, after the one year grace period provided by the CAA. Metropolitan PM2.5 non-attainment areas are now required to have a TIP and long range transportation plan (LRTP) that conforms to the PM2.5 standard.

This project has been evaluated by an interagency group consisting of Federal Highway Administration (FHWA), EPA, Georgia Department of Natural Resources Environmental Protection Division (GA EPD), and the MPO and they agreed that these projects do NOT appear to be "Projects of Concern" per the Transportation Conformity Rule and thus meet the statutory and regulatory requirements for PM2.5 hotspots without a qualitative analysis on CONCURRENCE DATE. Documentation and correspondence are included in Attachment 2.

## How Does the Proposed Project Affect Mobile Source Air Toxics (MSAT)?

### Mobile Source Air Toxics (MSAT)

#### Introduction

Mobile Source Air Toxics (MSAT) assessments are required statewide for most federal transportation projects. Based on the example projects defined in the FHWA guidance "Interim Guidance Update on Mobile Source Air Toxic Analysis in NEPA Documents" dated December 6, 2012, Main Street at Roberts Lane would be classified as a project with low potential MSAT effects. In addition to the criteria air pollutants that must meet the NAAQS, EPA also regulates air toxics. Most air toxics originate from human-made sources, including on-road mobile sources, non-road mobile sources (e.g., airplanes), area sources (e.g., dry cleaners) and stationary sources (e.g., factories or refineries).

#### Background

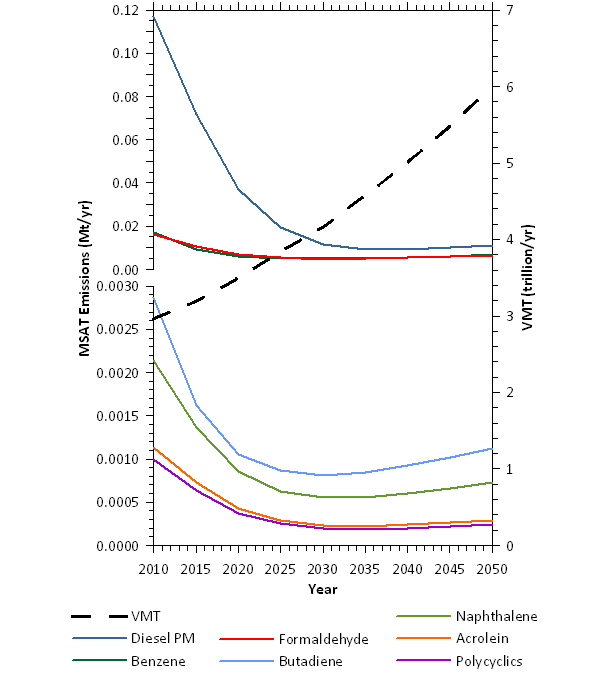
Controlling air toxic emissions became a national priority with the passage of the Clean Air Act Amendments (CAAA) of 1990, whereby Congress mandated that the EPA regulate 188 air toxics, also known as hazardous air pollutants. The EPA has assessed this expansive list in their latest rule on the Control of Hazardous Air Pollutants from Mobile Sources (Federal Register, Vol. 72, No. 37, page 8430, February 26, 2007), and identified a group of 93 compounds emitted from mobile sources that are listed in their Integrated Risk Information System (IRIS) (http://www.epa.gov/iris/). In addition, EPA identified seven compounds with significant contributions from mobile sources that are among the national and regional-scale cancer risk drivers from their 1999 National Air Toxics Assessment (NATA) (http://www.epa.gov/ttn/atw/nata1999/). These are acrolein, benzene, 1,3-butidiene, diesel particulate matter plus diesel exhaust organic gases (diesel PM), formaldehyde, naphthalene, and polycyclic organic matter. While FHWA considers these the priority mobile source air toxics, the list is subject to change and may be adjusted in consideration of future EPA rules. The 2007 EPA rule mentioned above requires controls that will dramatically decrease MSAT emissions through cleaner fuels and cleaner engines.

#### Motor Vehicle Emissions Simulator (MOVES)

According to EPA, MOVES improves upon the previous MOBILE model in several key aspects: MOVES is based on a vast amount of in-use vehicle data collected and analyzed since the latest release of MOBILE, including millions of emissions measurements from light-duty vehicles. Analysis of this data enhanced EPA's understanding of how mobile sources contribute to emissions inventories and the relative effectiveness of various control strategies. In addition, MOVES accounts for the significant effects that vehicle speed and temperature have on PM emissions estimates, whereas MOBILE did not. MOVES2010b includes all air toxic pollutants in NATA that are emitted by mobile sources. EPA has incorporated more recent data into MOVES2010b to update and enhance the quality of MSAT emission estimates. These data reflect advanced emission control technology and modern fuels, plus additional data for older technology vehicles.

Based on an FHWA analysis using EPA's MOVES2010b model, as shown in Figure 2, even if vehicle miles traveled (VMT) increases by 102 percent as assumed from 2010 to 2050, a combined reduction of 83 percent in the total annual emissions for the priority MSAT is projected for the same time period.

Figure 2. National MSAT Emission Trends 2010-2050 for Vehicles Operating on Roadways Using the EPA MOVES 2010b Model



Note: Trends for specific locations may be different, depending on locally derived information representing vehicle-miles traveled, vehicle speeds, vehicle mix, fuels, emission control programs, meteorology, and other factors Source: EPA MOVES2010b model runs conducted during May - June 2012 by FHWA.

The implications of MOVES on MSAT emissions estimates compared to MOBILE are: lower estimates of total MSAT emissions; significantly lower benzene emissions; significantly higher diesel PM emissions, especially for lower speeds. Consequently, diesel PM is projected to be the dominant component of the emissions total.

Air toxics analysis is a continuing area of research. While much work has been done to assess the overall health risk of air toxics, many questions remain unanswered. In particular, the tools and techniques for assessing project-specific health outcomes as a result of lifetime MSAT exposure remain limited. These limitations impede the ability to evaluate how potential public health risks posed by MSAT exposure should be factored into project-level decision-making within the context of NEPA.

Nonetheless, air toxics concerns continue to be raised on highway projects during the NEPA process. Even as the science emerges, we are duly expected by the public and other agencies to address MSAT impacts in our environmental documents. The FHWA, EPA, the Health Effects Institute, and others have funded and conducted research studies to try to more clearly define potential risks from MSAT emissions associated with highway projects. The FHWA will continue to monitor the developing research in this field.

#### Qualitative MSAT Assessment

For each alternative, the amount of MSAT emitted would be proportional to the vehicle miles traveled, or VMT, assuming that other variables such as fleet mix are the same for each alternative. The VMT estimated for the Build Alternatives is the same as that of the No Build Alternative (refer to Table 2). The emissions increase is offset somewhat by lower MSAT emission rates due to increased speeds; according to EPA's MOVES2010b model, emissions of all of the priority MSAT decrease as speed increases.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Roadway | Roadway Length (Miles) |  | Existing | No Build | Build |
| Peachtree Road/SR 134 | 1.7 | ADT | 78,545 | 101,993 | 112,330 |
| VMT | 133,527 | 173,389 | 190,961 |

The estimated VMT under the Build Alternative is expected to be the same as that of the No Build Alternative. It is expected there would be no appreciable difference in overall MSAT emissions among the two alternatives. Regardless of the alternative chosen, emissions will likely be lower than present levels in the Build year as a result of EPA's national control programs that are projected to reduce annual MSAT emissions by over 80 percent between 2010 and 2050. Local conditions may differ from these national projections in terms of fleet mix and turnover, VMT growth rates, and local control measures. However, the magnitude of the EPA projected reductions is so great (even after accounting for VMT growth) that MSAT emissions in the study area are likely to be lower in the future in nearly all cases.

The proposed improvements contemplated as part of the Build Alternative will have the effect of moving some traffic closer to nearby homes and businesses; therefore, under each alternative there may be localized areas where ambient concentrations of MSAT could be higher under certain Build Alternatives than the No Build Alternative. The localized increases in MSAT concentrations would likely be most pronounced along the sections of Roberts Lane.. However, the magnitude and the duration of these potential increases compared to the No Build alternative cannot be reliably quantified due to incomplete or unavailable information in forecasting project-specific MSAT health impacts. In sum, when a highway is widened, the localized level of MSAT emissions for the Build Alternative could be higher relative to the No Build Alternative, but this could be offset due to increases in speeds and reductions in congestion (which are associated with lower MSAT emissions). Also, MSAT will be lower in other locations when traffic shifts away from them. However, on a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be significantly lower than today.

#### Incomplete or Unavailable Information for Project-Specific MSAT Health Impacts Analysis

In FHWA's view, information is incomplete or unavailable to credibly predict the project-specific health impacts due to changes in MSAT emissions associated with a proposed set of highway alternatives. The outcome of such an assessment, adverse or not, would be influenced more by the uncertainty introduced into the process through assumption and speculation rather than any genuine insight into the actual health impacts directly attributable to MSAT exposure associated with a proposed action.

The EPA is responsible for protecting the public health and welfare from any known or anticipated effect of an air pollutant. They are the lead authority for administering the CAA and its amendments and have specific statutory obligations with respect to hazardous air pollutants and MSAT. The EPA is in the continual process of assessing human health effects, exposures, and risks posed by air pollutants. They maintain the Integrated Risk Information System (IRIS), which is "a compilation of electronic reports on specific substances found in the environment and their potential to cause human health effects" (EPA, http://www.epa.gov/iris/). Each report contains assessments of non-cancerous and cancerous effects for individual compounds and quantitative estimates of risk levels from lifetime oral and inhalation exposures with uncertainty spanning perhaps an order of magnitude.

Other organizations are also active in the research and analyses of the human health effects of MSAT, including the Health Effects Institute (HEI). Two HEI studies are summarized in Appendix D of FHWA's "Interim Guidance Update on Mobile source Air Toxic Analysis" in NEPA Documents. Among the adverse health effects linked to MSAT compounds at high exposures are; cancer in humans in occupational settings; cancer in animals; and irritation to the respiratory tract, including the exacerbation of asthma. Less obvious is the adverse human health effects of MSAT compounds at current environmental concentrations (HEI, http://pubs.healtheffects.org/view.php?id=282) or in the future as vehicle emissions substantially decrease (HEI, http://pubs.healtheffects.org/view.php?id=306).

The methodologies for forecasting health impacts include emissions modeling; dispersion modeling; exposure modeling; and then final determination of health impacts - each step in the process building on the model predictions obtained in the previous step. All are encumbered by technical shortcomings or uncertain science that prevents a more complete differentiation of the MSAT health impacts among a set of project alternatives. These difficulties are magnified for lifetime (i.e., 70 year) assessments, particularly because unsupportable assumptions would have to be made regarding changes in travel patterns and vehicle technology (which affects emissions rates) over that time frame, since such information is unavailable.

It is particularly difficult to reliably forecast 70-year lifetime MSAT concentrations and exposure near roadways; to determine the portion of time that people are actually exposed at a specific location; and to establish the extent attributable to a proposed action, especially given that some of the information needed is unavailable.

There are considerable uncertainties associated with the existing estimates of toxicity of the various MSAT, because of factors such as low-dose extrapolation and translation of occupational exposure data to the general population, a concern expressed by HEI (http://pubs.healtheffects.org/view.php?id=282 ). As a result, there is no national consensus on air dose-response values assumed to protect the public health and welfare for MSAT compounds, and in particular for diesel PM. The EPA (http://www.epa.gov/risk/ basicinformation.htm#g) and the HEI (http://pubs.healtheffects.org/getfile.php?u=395) have not established a basis for quantitative risk assessment of diesel PM in ambient settings.

There is also the lack of a national consensus on an acceptable level of risk. The current context is the process used by the EPA as provided by the CAA to determine whether more stringent controls are required in order to provide an ample margin of safety to protect public health or to prevent an adverse environmental effect for industrial sources subject to the maximum achievable control technology standards, such as benzene emissions from refineries. The decision framework is a two-step process. The first step requires EPA to determine an "acceptable" level of risk due to emissions from a source, which is generally no greater than approximately 100 in a million. Additional factors are considered in the second step, the goal of which is to maximize the number of people with risks less than one in a million due to emissions from a source. The results of this statutory two-step process do not guarantee that cancer risks from exposure to air toxics are less than one in a million; in some cases, the residual risk determination could result in maximum individual cancer risks that are as high as approximately 100 in a million. In a June 2008 decision, the U.S. Court of Appeals for the District of Columbia Circuit upheld EPA's approach to addressing risk in its two step decision framework. Information is incomplete or unavailable to establish that even the largest of highway projects would result in levels of risk greater than deemed acceptable.

Because of the limitations in the methodologies for forecasting health impacts described, any predicted difference in health impacts between alternatives is likely to be much smaller than the uncertainties associated with predicting the impacts. Consequently, the results of such assessments would not be useful to decision makers, who would need to weigh this information against project benefits, such as reducing traffic congestion, accident rates, and fatalities plus improved access for emergency response, that are better suited for quantitative analysis.

#### How Does the Construction of this Project Affect Air Quality?

All phases of construction operations would temporarily contribute to air pollution. Particulates would increase slightly in the corridor as dust from construction collects in the air surrounding the project. The construction equipment would also produce slight amounts of exhaust emissions. The Rules and Regulations for Air Quality Control outlined in Chapter 391-3-1, Rules of GA EPD, would be followed during the construction of the project. These include covering earth-moving trucks to keep dust levels down, watering haul roads, and refraining from open burning, except as may be permitted by local regulations.

The EPA has listed a number of approved diesel retrofit technologies; many of these can be deployed as emissions mitigation measures for equipment used in construction. This listing can be found at: http://www.epa.gov/cleandiesel/technologies/retrofits.htm

#### What are the Conclusions Reached Based on the Air Assessment?

This project was evaluated for its consistency with state and federal air quality goals, including CO, Ozone, PM2.5, and MSATs as part of this assessment. Results indicated that the project is consistent with the SIP for the attainment of clean air quality in Georgia and is in compliance with both state and federal air quality standards.