Air Quality Impact and Greenhouse Gas Analysis

AIR QUALITY AND GREENHOUSE GAS ANALYSIS

FOR THE

EL DORADO HILLS APARTMENTS PROJECT

JUNE 27, 2017

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Chapters Page Numbers

1 Introduction 1-1
1.1 Introduction 1-1
1.2 Project Summary 1-1
2 Air Quality 2-1
2.1 Existing Setting 2-1
2.2 Regulatory Setting 2-7
2.3 Impacts and Mitigation Measures 2-15
3 Greenhouse Gas Emissions and Climate Change 3-1
2.1 Environmental Setting 3-1
2.2 Regulatory Setting 3-6
2.3 Impacts and Mitigation Measures 3-13
4 References 4-1

Appendices

Appendix A – Proposed Project Scenario Summer Emissions (CalEEMod)
Appendix B – Proposed Project Scenario Winter Emissions (CalEEMod)
Appendix C – Proposed Project Scenario Annual Emissions (CalEEMod)
Appendix D – Proposed Project Scenario Appendix F Energy Calculations
Appendix E – Proposed Project Scenario EMFAC2014 Year 2020 Vehicle Emissions
Appendix F – Retail Scenario Summer Emissions (CalEEMod)
Appendix G – Retail Scenario Winter Emissions (CalEEMod)
Appendix H – Retail Scenario Annual Emissions (CalEEMod)

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1.1 INTRODUCTION

This Air Quality and Greenhouse Gas Analysis identifies and analyzes the potential impacts from the El Dorado Hills Apartments Project (hereinafter "proposed project") related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document is prepared in accordance with the requirements of the California Environmental Quality Act (CEQA) Guidelines and the El Dorado County Air Quality Management District requirements. The modeling efforts utilized the California Emission Estimator Model (CalEEMod)™ (v.2016.3.1). Modeling outputs are provided in the Appendix. This study is organized as follows:

- Chapter 1 Introduction
- Chapter 2 Air Quality Analysis
- Chapter 3 Greenhouse Gas Emissions Analysis
- Chapter 4 References

The Air Quality Analysis and Greenhouse Gas Emissions Analysis each include an environmental setting, regulatory setting, thresholds of significance, impacts, and mitigation.

1.2 PROJECT SUMMARY

The proposed project consists of the construction of 214 apartments units on approximately 4.5 acres located near the corner of Town Center Boulevard and Vine Street in El Dorado Hills, El Dorado County. The proposed project includes a four-story apartment building complex with a five level parking garage (approximately 383 spaces), entry piazza, two passive courtyard amenities, an active courtyard amenity, and a clubhouse.

The project site is within the existing El Dorado Hills Town Center development. Town Center is located in El Dorado Hills, CA, southeast of the US 50/El Dorado Hills Boulevard interchange and consists of retail, restaurant, gas station, commercial office, medical office, hotel, and entertainment land uses. The proposed project would locate residents close to jobs and services, which will allow trips to be "internally captured" within Town Center (i.e. trips that begin and end in the mixed-use development), reducing external vehicle travel.

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17-0846 U 9 of 514

This chapter describes the regional air quality, current attainment status of the air basin, local sensitive receptors, emission sources, and impacts that are likely to result from project implementation. This section is based in part on the following technical studies: *Air Quality and Land Use Handbook: A Community Health Perspective (California Air Resources Board 2007), CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002), CalEEMod *(v.2016.3.1)* (California Air Resources Board 2016). (Note: The Greenhouse Gases and Climate Change analysis is located in a separate chapter.)

2.1 EXISTING SETTING

MOUNTAIN COUNTIES AIR BASIN

El Dorado County is located within the Mountain Counties Air Basin (MCAB), which contains Nevada, Sierra, Plumas, Amador, Calaveras, Tuolumne, and Mariposa counties and a portion of El Dorado and Placer County. California air basin boundary designations generally cover areas that share similar meteorological and geographic conditions. The MCAB includes both the western and eastern slopes of the Sierra Nevada Mountains including much of the Sierra foothills. The area covered is approximately 11,000 square miles.

Topography

El Dorado County exhibits large variations in terrain and consequently exhibits large variations in climate. The western portions of the county slope gradually, with deep river canyons running from northeast to southwest from the crest of the Sierra Nevada range to the Sacramento Valley floor. East of the divide, the slope of the Sierra Nevada is steeper, but river canyons are relatively shallow. Elevations range from about 100 feet to 10,000 feet.

Temperatures

Winter temperatures in the mountains can be below freezing for weeks at a time, and substantial depths of snow can accumulate, but in the western foothills, winter temperatures usually dip below freezing only at night and precipitation is mixed as rain or light snow. In the summer, temperatures in the mountains are mild, with daytime peaks in the 70s to low 80s F, but the western end of the county can routinely exceed 100 degrees F.

Precipitation

The topography of the county strongly affects temperature and rainfall distributions. The warmest areas are found at the lower elevations along the west side of the county, and the coldest temperatures are found at the highest elevations. Average annual precipitation generally increases with altitude, ranging from about 30 inches in the western portions of the county to over 60 inches near the crest of the Sierra Nevada. East of the crest, annual precipitation drops off rapidly, diminishing to about 30 inches at the eastern end of the county.

Air Movement

The prevailing wind direction over the county is westerly. However, the terrain of the area has a great influence on local winds, so that wide variability in wind direction can be expected. In the

foothills, regional airflow patterns are influenced by the mountainous and hill covered terrain, which direct surface air flows, cause shallow vertical mixing, and create areas of high pollutant concentrations by hindering dispersion. Inversion layers, where warm air overlays cooler air, frequently occur and trap pollutants close to the ground.

In the summer, the strong upwind valley air flowing into the basin from the west is an effective transport medium for ozone precursors and ozone generated in the Bay Area and the Sacramento and San Joaquin valleys. These transported pollutants predominate as the cause of ozone in the MCAB and are largely responsible for the exceedances of the state and federal ozone Ambient Air Quality Standards in the MCAB. The California Air Resources Board (CARB) has officially designated the MCAB as "ozone impacted" by transport from those areas.

CRITERIA POLLUTANTS

The United States Environmental Protection Agency (EPA) uses six "criteria pollutants" as indicators of air quality, and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). Each criteria pollutant is described below.

Ozone (O_3) is a photochemical oxidant and the major component of smog. While O_3 in the upper atmosphere is beneficial to life by shielding the earth from harmful ultraviolet radiation from the sun, high concentrations of O_3 at ground level are a major health and environmental concern. O_3 is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOx) in the presence of sunlight. These reactions are stimulated by sunlight and temperature so that peak O_3 levels occur typically during the warmer times of the year. Both VOCs and NOx are emitted by transportation and industrial sources. VOCs are emitted from sources as diverse as autos, chemical manufacturing, dry cleaners, paint shops and other sources using solvents.

The reactivity of O_3 causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O_3 not only affect people with impaired respiratory systems, such as asthmatics, but healthy adults and children as well. Exposure to O_3 for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. When CO enters the bloodstream, it reduces the delivery of oxygen to the body's organs and tissues. Health threats are most serious for those who suffer from cardiovascular disease, particularly those with angina or peripheral vascular disease. Exposure to elevated CO levels can cause impairment of visual perception, manual dexterity, learning ability and performance of complex tasks.

Nitrogen dioxide (NO_2) is a brownish, highly reactive gas that is present in all urban atmospheres. NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory

infections. Nitrogen oxides are an important precursor both to ozone (O_3) and acid rain, and may affect both terrestrial and aquatic ecosystems. The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NOx). NOx plays a major role, together with VOCs, in the atmospheric reactions that produce O_3. NOx forms when fuel is burned at high temperatures. The two major emission sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

Sulfur dioxide (SO_2) affects breathing and may aggravate existing respiratory and cardiovascular disease in high doses. Sensitive populations include asthmatics, individuals with bronchitis or emphysema, children and the elderly. SO_2 is also a primary contributor to acid deposition, or acid rain, which causes acidification of lakes and streams and can damage trees, crops, historic buildings and statues. In addition, sulfur compounds in the air contribute to visibility impairment in large parts of the country. Ambient SO_2 results largely from stationary sources such as coal and oil combustion, steel mills, refineries, pulp and paper mills and from nonferrous smelters.

Particulate matter (PM) includes dust, dirt, soot, smoke and liquid droplets directly emitted into the air by sources such as factories, power plants, cars, construction activity, fires and natural windblown dust. Particles formed in the atmosphere by condensation or the transformation of emitted gases such as SO_2 and VOCs are also considered particulate matter.

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO_2) and laboratory studies of animals and humans, there are major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis and premature death.

Respirable particulate matter (PM_{10}) consists of small particles, less than 10 microns in diameter, of dust, smoke, or droplets of liquid which penetrate the human respiratory system and cause irritation by themselves, or in combination with other gases. Particulate matter is caused primarily by dust from grading and excavation activities, from agricultural activities (as created by soil preparation activities, fertilizer and pesticide spraying, weed burning and animal husbandry), and from motor vehicles, particularly diesel-powered vehicles. PM_{10} causes a greater health risk than larger particles, since these fine particles can more easily penetrate the defenses of the human respiratory system.

Fine particulate matter ($PM_{2.5}$) consists of fine particles, which are less than 2.5 microns in size. Similar to PM_{10}, these particles are primarily the result of combustion in motor vehicles, particularly diesel engines, as well as from industrial sources and residential/agricultural activities such as burning. It is also formed through the reaction of other pollutants. As with PM_{10}, these particulates can increase the chance of respiratory disease, and cause lung damage and cancer. In 1997, the EPA created new Federal air quality standards for $PM_{2.5}$.

The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or

influenza, asthmatics, the elderly and children. Particulate matter also impacts soils and damages materials, and is a major cause of visibility impairment.

Lead (Pb) exposure can occur through multiple pathways, including inhalation of air and ingestion of Pb in food, water, soil or dust. Excessive Pb exposure can cause seizures, mental retardation and/or behavioral disorders. Low doses of Pb can lead to central nervous system damage. Recent studies have also shown that Pb may be a factor in high blood pressure and subsequent heart disease.

ODORS

Typically, odors are regarded as a nuisance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals can smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another.

It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

When an odorous sample is progressively diluted, the odorant concentration decreases. As this occurs, the odor intensity weakens and eventually becomes so low that the detection or recognition of the odor is quite difficult. At some point during dilution, the concentration of the odorant reaches a detection threshold. An odorant concentration below the detection threshold means that the concentration in the air is not detectable by the average human.

SENSITIVE RECEPTORS

A sensitive receptor is a location where human populations, especially children, seniors, and sick persons, are present and where there is a reasonable expectation of continuous human exposure to pollutants. Examples of sensitive receptors include residences, hospitals and schools. The proposed project would include residences with sensitive receptors. The proposed project is primarily

surrounded by commercial land uses. There are no identifiable sensitive receptors located surrounding the project site.

AMBIENT AIR QUALITY

Both the U.S. Environmental Protection Agency (U.S. EPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. These ambient air quality standards represent safe levels of contaminants that avoid specific adverse health effects associated with each pollutant.

The federal and California state ambient air quality standards are summarized in **Table 2-1** for important pollutants. The federal and state ambient standards were developed independently, although both processes attempted to avoid health-related effects. As a result, the federal and state standards differ in some cases. In general, the California state standards are more stringent. This is particularly true for ozone and particulate matter between 2.5 and 10 microns in diameter (PM_{10}).

The U.S. Environmental Protection Agency established new national air quality standards for ground-level ozone and for fine particulate matter in 1997. The 1-hour ozone standard was phased out and replaced by an 8-hour standard of 0.075 PPM. Implementation of the 8-hour standard was delayed by litigation, but was determined to be valid and enforceable by the U.S. Supreme Court in a decision issued in February of 2001. In April 2005, the Air Resources Board approved a new eight-hour standard of 0.070 ppm and retained the one-hour ozone standard of 0.09 after an extensive review of the scientific literature. The U.S. EPA signed a final rule for the Federal ozone eight-hour standard of 0.070 ppm on October 1, 2015, and was effective as of December 28, 2015.

TABLE 2-1: FEDERAL AND STATE AMBIENT AIR QUALITY STANDARDS

POLLUTANT	*AVERAGING TIME*	*FEDERAL PRIMARY STANDARD*	*STATE STANDARD*
Ozone	1-Hour 8-Hour	-- 0.070 ppm	0.09 ppm 0.070 ppm
Carbon Monoxide	8-Hour 1-Hour	9.0 ppm 35.0 ppm	9.0 ppm 20.0 ppm
Nitrogen Dioxide	Annual 1-Hour	0.053 ppm 0.100 ppm	0.03 ppm 0.18 ppm
Sulfur Dioxide	Annual 24-Hour 3-Hour 1-Hour	-- -- 0.5 ppm 0.075 ppm	-- 0.04 ppm -- 0.25 ppm
PM_{10}	Annual 24-Hour	-- 150 ug/m^3	20 ug/m^3 50 ug/m^3
$PM_{2.5}$	Annual 24-Hour	15 ug/m^3 35 ug/m^3	12 ug/m^3 --
Lead	30-Day Avg. 3-Month Avg.	-- 0.15 ug/m^3	1.5 ug/m^3 --

NOTES: PPM = PARTS PER MILLION, PPB = PARTS PER BILLION, UG/M3 = MICROGRAMS PER CUBIC METER

SOURCES: CALIFORNIA AIR RESOURCES BOARD, 2015; U.S. EPA, 2015.

In 1997, new national standards for fine particulate matter diameter 2.5 microns or less ($PM_{2.5}$) were adopted for 24-hour and annual averaging periods. The current PM_{10} standards were to be retained, but the method and form for determining compliance with the standards were revised.

The State of California regularly reviews scientific literature regarding the health effects and exposure to PM and other pollutants. On May 3, 2002, CARB staff recommended lowering the level of the annual standard for PM_{10} and establishing a new annual standard for $PM_{2.5}$. The new standards became effective on July 5, 2003, with another revision on November 29, 2005.

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated despite the absence of criteria documents. The identification, regulation and monitoring of TACs is relatively recent compared to that for criteria pollutants. Unlike criteria pollutants, TACs are regulated based on risk rather than specification of safe levels of contamination.

Existing air quality concerns within the project area is related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles which account for 70 percent of the ozone in the region. Particulate matter is caused by dust, primarily dust generated from construction and grading activities, and smoke which is emitted from fireplaces, wood-burning stoves, and agricultural burning.

Attainment Status

In accordance with the California Clean Air Act (CCAA), the CARB is required to designate areas of the state as attainment, nonattainment, or unclassified with respect to applicable standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A "nonattainment" designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria.

Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An "unclassified" designation signifies that the data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The U.S. EPA designates areas for ozone (O_3), carbon monoxide (CO), and nitrogen dioxide (NO_2) as "does not meet the primary standards," "cannot be classified," or "better than national standards." For sulfur dioxide (SO_2), areas are designated as "does not meet the primary standards," "does not meet the secondary standards," "cannot be classified," or "better than national standards." However, the CARB terminology of attainment, nonattainment, and unclassified is more frequently used.

El Dorado County has a state designation of Nonattainment for Ozone and PM_{10}, and is either Unclassified or Attainment for all other criteria pollutants. El Dorado County has a national designation of Nonattainment for ozone and $PM_{2.5}$. The County is designated either attainment or

unclassified for all other criteria pollutants. **Table 2-2** presents the state and nation attainment status for El Dorado County.

TABLE 2-2: STATE AND NATIONAL ATTAINMENT STATUS

CRITERIA POLLUTANTS	*STATE DESIGNATIONS*	*NATIONAL DESIGNATIONS*
Ozone	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Unclassified
$PM_{2.5}$	Unclassified	Nonattainment (western portion)
Carbon Monoxide	Unclassified	Unclassified/Attainment
Nitrogen Dioxide	Attainment	Unclassified/Attainment
Sulfur Dioxide	Attainment	Unclassified
Sulfates	Attainment	
Lead	Attainment	
Hydrogen Sulfide	Unclassified	
Visibility Reducing Particles	Unclassified	

SOURCES: CALIFORNIA AIR RESOURCES BOARD (2016).

2.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The EPA is responsible for administering the FCAA. The FCAA requires the EPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

The law recognizes the importance for each state to locally carry out the requirements of the FCAA, as special consideration of local industries, geography, housing patterns, etc. are needed to have full comprehension of the local pollution control problems. As a result, the EPA requires each state to develop a State Implementation Plan (SIP) that explains how each state will implement the FCAA within their jurisdiction. A SIP is a collection of rules and regulations that a particular state will implement to control air quality within their jurisdiction. CARB is the state agency that is responsible for preparing and implementing the California SIP.

Transportation Conformity

Transportation conformity requirements were added to the FCAA in the 1990 amendments, and the EPA adopted implementing regulations in 1997. See §176 of the FCAA (42 U.S.C. §7506) and 40 CFR Part 93, Subpart A. Transportation conformity serves much the same purpose as general conformity:

it ensures that transportation plans, transportation improvement programs, and projects that are developed, funded, or approved by the United States Department of Transportation or that are recipients of funds under the Federal Transit Act or from the Federal Highway Administration (FHWA), conform to the SIP as approved or promulgated by EPA.

Currently, transportation conformity applies in nonattainment areas and maintenance areas. Under transportation conformity, a determination of conformity with the applicable SIP must be made by the agency responsible for the project, such as the Metropolitan Planning Organization, the Council of Governments, or a federal agency. The agency making the determination is also responsible for all the requirements relating to public participation. Generally, a project will be considered in conformance if it is in the transportation improvement plan and the transportation improvement plan is incorporated in the SIP. If an action is covered under transportation conformity, it does not need to be separately evaluated under general conformity.

Transportation Control Measures

One particular aspect of the SIP development process is the consideration of potential control measures as a part of making progress towards clean air goals. While most SIP control measures are aimed at reducing emissions from stationary sources, some are typically also created to address mobile or transportation sources. These are known as transportation control measures (TCMs). TCM strategies are designed to reduce vehicle miles traveled and trips, or vehicle idling and associated air pollution. These goals are achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

STATE

CARB Mobile-Source Regulation

The State of California is responsible for controlling emissions from the operation of motor vehicles in the state. Rather than mandating the use of specific technology or the reliance on a specific fuel, the CARB's motor vehicle standards specify the allowable grams of pollution per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved. Towards this end, the CARB has adopted regulations which required auto manufacturers to phase in less polluting vehicles.

California Clean Air Act

The California Clean Air Act (CCAA) was first signed into law in 1988. The CCAA provides a comprehensive framework for air quality planning and regulation, and spells out, in statute, the state's air quality goals, planning and regulatory strategies, and performance. CARB is the agency responsible for administering the CCAA. CARB established ambient air quality standards pursuant to the California Health and Safety Code (CH&SC) [§39606(b)], which are similar to the federal standards.

Air Quality Standards

NAAQS are determined by the EPA. The standards include both primary and secondary ambient air quality standards. Primary standards are established with a safety margin. Secondary standards are more stringent than primary standards and are intended to protect public health and welfare. States can set standards that are more stringent than the federal standards. As such, California established more stringent ambient air quality standards.

Federal and state ambient air quality standards have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulates (PM_{10}) and lead. In addition, California has created standards for pollutants that are not covered by federal standards. The state and federal primary standards for major pollutants are shown in Table 2-1.

Tanner Air Toxics Act

California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted EPA's list of HAPs as TACs. Most recently, diesel PM was added to the CARB list of TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technology (BACT) to minimize emissions.

The AB 2588 requires that existing facilities that emit toxic substances above a specified level prepare a toxic-emission inventory, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures. CARB has adopted diesel exhaust control measures and more stringent emission standards for various on-road mobile sources of emissions, including transit buses and off-road diesel equipment (e.g., tractors, generators). In February 2000, CARB adopted a new public-transit bus-fleet rule and emission standards for new urban buses. These rules and standards provide for (1) more stringent emission standards for some new urban bus engines, beginning with 2002 model year engines; (2) zero-emission bus demonstration and purchase requirements applicable to transit agencies; and (3) reporting requirements under which transit agencies must demonstrate compliance with the urban transit bus fleet rule. Upcoming milestones include the low-sulfur diesel-fuel requirement, and tighter emission standards for heavy-duty diesel trucks (2007) and off-road diesel equipment (2011) nationwide.

LOCAL

El Dorado County Air Quality Management District

At the county level, air quality is managed through land use and development planning practices that are implemented by El Dorado County and through permitted source controls that are

implemented by the El Dorado AQMD. The El Dorado AQMD is also the agency responsible for enforcing many federal and state air quality requirements and for establishing air quality rules and regulations. The El Dorado AQMD attains and maintains air quality conditions in El Dorado County through a comprehensive program of planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues. The clean air strategy of the El Dorado AQMD includes the preparation of plans for the attainment of ambient air quality standards, adoption, and enforcement of rules and regulations concerning sources of air pollution, and issuance of permits for stationary sources of air pollution. The El Dorado AQMD also inspects stationary sources of air pollution and responds to citizen complaints, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by the federal Clean Air Act, the Clean Air Act Amendments of 1990, and the California Clean Air Act.

CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

The El Dorado County AQMD published the *Guide to Air Quality Assessment: Determining Significance of Air Quality Impacts under the California Environmental Quality Act* in February 2002. This guide outlines quantitative and qualitative significance criteria, methodologies for the estimation of construction and operational emissions, and mitigation measures to reduce such impacts. The quantitative and qualitative significance criteria are similar to the criteria for and developed in coordination with the surrounding air quality districts. To reduce NOx emissions and visible emissions from off-road diesel construction equipment, the following measures are recommended by the El Dorado County AQMD:

- All mass grading operations shall provide a plan for approval by the County AQMD demonstrating that the heavy-duty (> 50 horsepower) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project-wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent CARB fleet average at the time of construction; and the project representative shall submit a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any portion of the construction project. The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction operations occur. At least 48 hours before the use of subject heavy-duty off-road equipment, the project representative shall provide the El Dorado County AQMD with the anticipated construction time line including start date, and name and phone number of the project manager and onsite foreman. Acceptable options for reducing emissions include the use of late-model engines, low-emission diesel products, alternative fuels, particulate matter traps, engine retrofit technology, after-treatment products, and/or other options as become available.

- All mass grading operations shall ensure that emissions from off-road diesel powered equipment used on the project site do not exceed 40% opacity for more than 3 minutes in any one hour. Any equipment found to exceed 40% opacity (or Ringlemann 2.0) shall be

repaired immediately, and the El Dorado County AQMD shall be notified within 48 hours of identification of noncompliant equipment. A visual survey of all in-operation equipment shall be made at least weekly, and a monthly summary of visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction operations occur. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey. The El Dorado County AQMD and/or officials may conduct periodic site inspections to determine compliance. The above recommendations shall not supersede other El Dorado County AQMD or state rules and regulations.

- The primary contractor shall be responsible for ensuring that all heavy-duty equipment is properly tuned and maintained, in accordance with manufacturers' specifications.

RULES AND REGULATIONS

The El Dorado County AQMD has promulgated mandatory rules, some of which are applicable to construction operators. These include Rule 223 regarding fugitive dust, Rule 215 regarding the application of architectural coatings, and Rule 224 regarding cutback and emulsified asphalt paving materials. Rule 215 is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufacturers any architectural coating for use within the El Dorado County AQMD. Rule 223 states that no person may cause, suffer, allow, or permit any fine material to be handled, transported, or stored without taking precautions determined by the El Dorado County AQMD, and that no person responsible for the ownership or maintenance of a road or thoroughfare may cause, suffer, allow, or permit a nuisance to develop as a result of any use, construction, alteration, or repair of that road or thoroughfare. The responsible person shall take precautions determined by the El Dorado County AQMD to be necessary to prevent such a nuisance. Rule 224 states that a person shall not manufacture for sale nor use for paving, road construction, or road maintenance certain types of cutback and emulsified asphalt.

LOCAL ASBESTOS CONCERNS

Asbestos is of special concern in El Dorado County because it occurs naturally in surface deposits of several types of ultramafic materials (materials that contain magnesium and iron and a very small amount of silica). Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining.

The El Dorado County AQMD is responsible for implementing and enforcing asbestos-related regulations and programs. This includes implementation of Title 17, Sections 93105 and 93106 of the California Code of Regulations (Asbestos Airborne Toxic Control Measure-Asbestos-Containing Serpentine) and the County's Naturally Occurring Asbestos and Dust Protection Ordinance. Regulated activities include construction or digging on a site containing naturally occurring asbestos in rock or soils and the sale and use of serpentine material or rock containing asbestos materials for surfacing. Asbestos-related measures presented in the General Plan are focused on supporting the actions of the El Dorado County AQMD.

El Dorado County General Plan

The El Dorado County General Plan establishes the following goals and policies relative to air quality in the General Plan:

PUBLIC HEALTH, SAFETY, AND NOISE ELEMENT GOALS AND POLICIES

Air Quality

GOAL 6.7: AIR QUALITY MAINTENANCE

A. Strive to achieve and maintain ambient air quality standards established by the U.S. Environmental Protection Agency and the California Air Resources Board.

B. Minimize public exposure to toxic or hazardous air pollutants and air pollutants that create unpleasant odors.

OBJECTIVE 6.7.1: EL DORADO COUNTY CLEAN AIR PLAN: Adopt and enforce the El Dorado County Clean Air Act Plan in conjunction with the County Air Quality Management District.

OBJECTIVE 6.7.2: VEHICULAR EMISSIONS: Reduce motor vehicle air pollution by developing programs aimed at minimizing congestion and reducing the number of vehicle trips made in the County and encouraging the use of clean fuels.

Policy 6.7.2.1 Develop and implement a public awareness campaign to educate community leaders and the public about the causes and effects of El Dorado County air pollution and about ways to reduce air pollution.

Policy 6.7.2.2 Encourage, both through County policy and discretionary project review, the use of staggered work schedules, flexible work hours, compressed work weeks, teleconferencing, telecommuting, and car pool/van pool matching as ways to reduce peak-hour vehicle trips.

Policy 6.7.2.3 To improve traffic flow, synchronization of signalized intersections shall be encouraged as a means to reduce congestion, conserve energy, and improve air quality.

Policy 6.7.2.4 Encourage a local and inter-State rail system.

Policy 6.7.2.5 Upon reviewing projects, the County shall support and encourage the use of, and facilities for, alternative-fuel vehicles to the extent feasible. The County shall develop language to be included in County contract procedures to give preference to contractors that utilize low-emission heavy-duty vehicles.

Policy 6.7.2.6 The County shall investigate the replacement of its fleet vehicles with more fuel-efficient alternative fuel vehicles (e.g., liquid natural gas, fuel cell vehicles).

OBJECTIVE 6.7.3: TRANSIT SERVICE: Expand the use of transit service within the County.

Policy 6.7.3.1 Legally permissible trip reduction programs and the development of transit and ridesharing facilities shall be given priority over highway capacity expansion when such programs and facilities will help to achieve and maintain mobility and air quality.

OBJECTIVE 6.7.4: PROJECT DESIGN AND MIXED USES: Encourage project design that protects air quality and minimizes direct and indirect emissions of air contaminants.

Policy 6.7.4.1 Reduce automobile dependency by permitting mixed land use patterns which locate services such as banks, child care facilities, schools, shopping centers, and restaurants in close proximity to employment centers and residential neighborhoods.

Policy 6.7.4.2 Promote the development of new residential uses within walking or bicycling distance to the County's larger employment centers.

Policy 6.7.4.3 New development on large tracts of undeveloped land near the rail corridor shall, to the extent practical, be transit supportive with high density or intensity of use.

Policy 6.7.4.4 All discretionary development applications shall be reviewed to determine the need for pedestrian/bike paths connecting to adjacent development and to common service facilities (e.g., clustered mail boxes, bus stops, etc.).

Policy 6.7.4.5 Specific plans submitted to the County shall provide for the implementation of all policies contained under Objective 6.7.4 herein.

Policy 6.7.4.6 The County shall regulate wood-burning fireplaces and stoves in all new development. Environmental Protection Agency (EPA)-approved stoves and fireplaces burning natural gas or propane are allowed. The County shall discourage the use of non-certified wood heaters and fireplaces during periods of unhealthy air quality.

Policy 6.7.4.7 The County shall inform the public regarding the air quality effects associated with the use of wood for home heating. The program should address proper operation and maintenance of wood heaters, proper wood selection and use, the health effects of wood smoke, weatherization methods for homes, and determining the proper size of heaters needed before purchase and professional installation. The County shall develop an incentive program to encourage homeowners to replace high-pollution emitting non-EPA-certified wood stoves that were installed before the effective date of the applicable EPA regulation with newer cleaner-burning EPA-certified wood stoves.

OBJECTIVE 6.7.5: AGRICULTURAL AND FUEL REDUCTION BURNING: Adopt and maintain air quality regulations which will continue to permit agricultural and fuel reduction burning while minimizing their adverse effects.

OBJECTIVE 6.7.6: AIR POLLUTION-SENSITIVE LAND USES: Separate air pollution sensitive land uses from significant sources of air pollution.

Policy 6.7.6.1 Ensure that new facilities in which sensitive receptors are located (e.g., schools, child care centers, playgrounds, retirement homes, and hospitals) are sited away from significant sources of air pollution.

Policy 6.7.6.2 New facilities in which sensitive receptors are located (e.g. residential subdivisions, schools, childcare centers, playgrounds, retirement homes, and hospitals) shall be sited away from significant sources of air pollution.

OBJECTIVE 6.7.7: CONSTRUCTION RELATED, SHORT-TERM EMISSIONS: Reduce construction related, short-term emissions by adopting regulations which minimize their adverse effects.

Policy 6.7.7.1 The County shall consider air quality when planning the land uses and transportation systems to accommodate expected growth, and shall use the recommendations in the most recent version of the El Dorado County Air Quality Management (AQMD) Guide to Air Quality Assessment: Determining Significance of Air Quality Impacts Under the California Environmental Quality Act, to analyze potential air quality impacts (e.g., short-term construction, long-term operations, toxic and odor-related emissions) and to require feasible mitigation requirements for such impacts. The County shall also consider any new information or technology that becomes available prior to periodic updates of the Guide. The County shall encourage actions (e.g., use of light-colored roofs and retention of trees) to help mitigate heat island effects on air quality.

OBJECTIVE 6.7.8: THE EFFECTS OF AIR POLLUTION ON VEGETATION: Monitor ongoing scientific research regarding the adverse effects, if any, of air pollution on vegetation.

Policy 6.7.8.1 The County shall monitor ongoing scientific research regarding the adverse effects, if any, of air pollution on vegetation, including commercially valuable timber, threatened or endangered plant species, and other plant species. If and when such research conclusively determines, or if and when the weight of scientific opinion concludes, that air pollution is causing significant harm to vegetation within El Dorado County or similarly situated areas, the County, through its periodic review of the General Plan pursuant to Policy 2.9.1.2, shall consider whether to add policies to the General Plan to try to mitigate such harm.

Sacramento Area Regional Ozone Attainment Plan

The greater Sacramento region is designated nonattainment for both federal and State ozone standards. The federal 8-hour ozone regulations require that areas classified as serious or above submit a reasonable further progress (RFP) demonstration plan that shows a minimum of 18 percent volatile organic compound (and/or NOx) emission reductions over the first six years following the 2002 baseline year and then an average of 3 percent reductions per year for each subsequent three-year period out to the attainment year. The Sacramento Regional 8-Hour Ozone 2011 Reasonable Further Progress Plan includes the information and analyses to fulfill Clean Air Act requirements for demonstrating RFP toward attaining the 8-hour ozone National Ambient Air Quality Standards (NAAQS) for the Sacramento region through 2011. In addition, this plan establishes an updated

emissions inventory and maintains existing motor vehicle emission budgets for transportation conformity purposes. The plan indicates that despite meeting the 2011 progress target, the Sacramento region cannot meet the 2013 attainment date for serious nonattainment areas. Section 181(b)(3) of the CAA permits a state to request that the USEPA reclassify or "bump up" a nonattainment area to a higher classification and extend the time allowed for attainment. This bump-up process is appropriate for areas that must rely on longer term strategies to achieve the emission reductions needed for attainment. Therefore, the air districts in the Sacramento region submitted a letter to CARB in February 2008 to request a voluntary reclassification (bump-up) of the Sacramento federal nonattainment area from a serious to a severe 8-hour ozone nonattainment area with an extended attainment deadline of June 15, 2019. On May 5, 2010, the USEPA approved the request effective June 4, 2010.

2.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed project will have a significant impact on the environment associated with air quality if it will:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Cause a violation of any air quality standard or contribute substantially to an existing or projected air quality violation;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
- Expose sensitive receptors to substantial pollutant concentrations;
- Create objectionable odors affecting a substantial number of people.

IMPACTS AND MITIGATION MEASURES

Impact 2-1: Conflict with or obstruct implementation of the applicable air quality plan (less than significant with mitigation)

The Sacramento Regional Ozone Air Quality Attainment Plan (AQAP) was developed to bring the region (including the Mountain Counties Air Basin) into attainment as required by the federal and California Clean Air Acts. The AQAP assumes annual increases in air pollutant emissions resulting from regional growth; however, the AQAP also assumes the incremental increase in emissions will be partially offset through the implementation of stationary, area, and indirect source control measures contained within the AQAP. These measures consist of the El Dorado AQMD's rules and regulations and other development- and transportation-related mitigation measures. Development projects in the Mountain Counties Air Basin portion of the county are considered consistent with the AQAP if:

1. The project does not require a change in the existing land use designation (e.g., a general plan amendment or rezone), and projected emissions of ROG and NOx from the proposed project are equal to or less than the emissions anticipated for the site if developed under the existing land use designation;

2. The project does not exceed the "project alone" significance criteria.

3. The lead agency for the project requires the project to implement any applicable emission reduction measures contained in and/or derived from the AQAP (see Appendix E);

4. The project complies with all applicable district rules and regulations.

Each of these requirements is analyzed below:

1. The project does not require a change in the existing land use designation (e.g., a general plan amendment or rezone), and projected emissions of ROG and NOx from the proposed project are equal to or less than the emissions anticipated for the site if developed under the existing land use designation;

    - The project site is part of a Planned Development Project and is designated for General Commercial Uses. This site has considered the development of retail uses, as well as a hotel use on this site. Each of these would be allowed under the existing General Plan and Zoning; however, the proposed residential uses are not an allowed use under the existing General Plan and Zoning. The proposed project would likely require a General Plan Amendment and/or Rezone to enable a residential use to be located within a mixed-use area.

      In order to determine the air quality impact that a General Plan Amendment and Rezone would have, a comparison of the potential commercial uses must be made to the proposed project. The California Emission Estimator Model (CalEEMod)™ (v.2016.3.1) was used to estimate project-level operational emissions for the proposed project and the commercial use. The commercial use was obtained from a site plan in marketing materials for the project site (CB Richard Ellis). The commercial use is referred to as the "Retail Scenario" herein.

      The Retail Scenario contains seven buildings ranging in size from 2,750 square feet to 24,700 square feet. The total square footage is 74,350 square feet. Table 2-3 shows the mitigated emissions of the proposed project compared to the Retail Scenario.

TABLE 2-3: OPERATIONAL EMISSIONS (MITIGATED MAXIMUM DAILY LBS/DAY)

Emission Source	ROG	NOx
Proposed Project		
Area	7.3272	3.3998
Energy	0.0289	0.2471
Mobile	5.6040	7.9354

Total	**12.9601**	**11.5823**
Retail Scenario		
Area	2.0639	7.0000e-005
Energy	0.0159	0.1303
Mobile	12.7752	14.8092
Total	**14.8534**	**14.9396**

SOURCES: CALEEMOD (V.2016.3.1)

As shown in Table 2-3 above, the proposed project would result in 12.75 percent lower emissions of ROG, and 22.47 percent lower emissions of NOx when compared to the Retail Scenario. While the proposed project would require an amendment to the General Plan and a Rezone, the net effect would be an improvement over the air emissions that would be generated under the Retail Scenario. Emissions under either scenario would be under the El Dorado AQMD thresholds of significance. The proposed project would be considered a **beneficial impact**.

2. The project does not exceed the "project alone" significance criteria.

    - As shown under Impacts 2-2 through 2-5, the proposed project does not exceed the "project alone" significance criteria.

3. The lead agency for the project requires the project to implement any applicable emission reduction measures contained in and/or derived from the AQAP (see Appendix E of the AQAP);

    - The existing Town Center includes numerous measures that were implemented to reduce air emissions as the project was developed. The proposed project is considered an infill development of the larger Town Center project. Many of the Appendix E emission reduction measures have already been implemented in the design and construction of the Town Center project. The proposed project does not conflict with any of these existing design measures. The emission reduction measures that are applicable to the proposed project are incorporated into the project by mitigation requirements presented in this study (See Impacts 2-2 through 2-8).

4. The project complies with all applicable district rules and regulations.

    - The *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDAQMD 2002) was used to review the proposed project relative to the El Dorado AQMD's rules and regulations. The proposed project complies with all applicable rules and regulations.

Conclusion: The above discussion shows that the proposed project does not conflict with, or obstruct, the Sacramento Regional Ozone Air Quality Attainment Plan (AQAP). Implementation of the proposed project would have a **less than significant** impact.

Impact 2-2: Project operations have the potential to cause a violation of any air quality standard or contribute substantially to an existing or projected air quality violation-Ozone (less than significant with mitigation)

The proposed project would be a direct and indirect source of air pollution, in that it would generate and attract vehicle trips in the region (Mobile source) and it would increase Area source emissions, and Energy (i.e. electricity and natural gas) consumption. The Mobile emissions would be entirely from vehicles, while the Area source emissions would be primarily from hearth fuel combustion, landscape fuel combustion, consumer products, and architectural coatings. Energy emissions would be from electricity and natural gas consumption. Table 2-4 provides the project-level operational threshold of significance for Ozone Precursors (ROG and NOX).

TABLE 2-4: PROJECT-LEVEL OPERATIONAL EMISSION THRESHOLDS (OZONE)

	ROG	***NOx***
Threshold	82 lbs/day	82 lbs/day

SOURCES: CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDAQMD 2002)

The California Emission Estimator Model (CalEEMod)™ (v.2016.3.1) was used to estimate project-level operational emissions for the proposed project. Table 2-5 shows the emissions, which include mobile source, area source, and energy emissions of Ozone precursors that would result from operations of the proposed project.

TABLE 2-5: OPERATIONAL EMISSIONS (UNMITIGATED MAXIMUM DAILY LBS/DAY)

Emission Source	ROG	NOx
Summer		
Area	334.4579	6.6007
Energy	0.0310	0.2650
Mobile	7.2564	11.7829
Total	**341.7453**	**18.6485**
Winter		
Area	334.4579	6.6007
Energy	0.0310	0.2650
Mobile	6.3825	13.1982
Total	**340.8714**	**20.0638**

SOURCES: CALEEMOD (V.2016.3.1) AND CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDAQMD 2002)

As shown in the table above, operational NOx emissions are below the thresholds of significance for the individual emission categories (i.e. area, energy, and mobile sources), as well as the total for these categories. The ROG emissions for the Area Source category, as well as the total for all categories, exceed the project-level operational threshold of significance. The El Dorado AQMD requires mitigation to reduce emissions that exceed the thresholds of significance.

The California Emission Estimator Model (CalEEMod)™ (v.2016.3.1) was used to estimate project-level operational emissions for the proposed project with the implementation of mitigation measures. The primary source of operational emissions that was targeted for mitigation in the model were the area sources, which are estimated to emit approximately 334.4579 lbs/day of ROG without mitigation; however, mitigation targeting other sources were also applied. Mitigation was entered into the model to reduce the total operational area source emissions. Mitigation included the following:

Mobile Source Mitigation (*These are implemented through the project design and location)

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

Energy Source Mitigation

- Exceed Title 24 by 10 percent
- Install High Efficiency Lighting
- Install Energy Efficient Appliances

Area Source Mitigation

- Use only Natural Gas Hearths (sealed natural gas only, no wood burning)

Water Mitigation

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Table 2-6 shows the project-level operational emissions, which include area, energy, and mobile source emissions, that would result from operations of the proposed project with mitigation.

TABLE 2-6: OPERATIONAL EMISSIONS (MITIGATED MAXIMUM DAILY LBS/DAY)

Emission Source	ROG	NOx
Summer		
Area	7.3272	3.3998
Energy	0.0289	0.2471
Mobile	5.6040	7.1224
Total	**12.9601**	**10.7692**
Percent Reduction	***96.2***	***42.3***
Winter		
Area	7.3272	3.3998
Energy	0.0289	0.2471
Mobile	4.6057	7.9354
Total	**11.9618**	**11.5823**
Percent Reduction	***96.5***	***42.3***

SOURCES: CALEEMOD (V.2016.3.1) AND CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDAQMD 2002)

As shown in the table above, all emissions are reduced to a level that does not exceed the project-level operational thresholds of significance. With the implementation of the following mitigation measure the proposed project would have a **less than significant** impact.

MITIGATION MEASURES

Mitigation Measure 2-1*: To reduce Projects Emissions, the project applicant shall include implement the following:*

1. *Exceed Title 24 by 10 percent*
2. *Install High Efficiency Lighting*
3. *Install Energy Efficient Appliances*
4. *Use only Natural Gas Hearths (i.e. fireplaces) (sealed natural gas only, no wood burning)*
5. *Install Low Flow Bathroom Faucet*
6. *Install Low Flow Kitchen Faucet*
7. *Install Low Flow Toilet*
8. *Install Low Flow Shower*
9. *Use Water Efficient Irrigation System*
10. *Design and construct the parking garage to allow for the installation of electric vehicle charging facilities when the demand for the charging facilities is demonstrated.*
11. *Provide bicycle storage areas for residents within the parking structure or other covered area to facilitate bicycling for both commuting and around town trips.*

Impact 2-3: Project operations have the potential to cause a violation of any air quality standard or contribute substantially to an existing or projected air quality violation-Other Criteria Pollutants (less than significant)

The El Dorado AQMD has identified the following screening techniques to identify projects that can be conservatively assumed not to be associated with significant emissions of CO, particulates, SO_2,

NO_2, sulfates, lead, and H_2S. Application of air pollution modeling techniques need not be applied to emissions that can be addressed through screening.

CO and Particulates: The CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act (EDAQMD 2002) provides an emissions estimation technique for CO and Particulates, to determine the significance level of these pollutants. The following emissions calculations were made following the procedures as prescribed in Section 6.3.2 of the CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act, (EDAQMD 2002). The results of these calculations show that the proposed project would result in emissions than are lower than the applicable AAQS standards. Therefore, there would be a **less than significant** impact for CO and particulates. Tables 2-7 and 2-8, below, provide the results of this analysis.

TABLE 2-7: OPERATIONAL EMISSIONS – POLLUTANT CONCENTRATION/SIGNIFICANCE DETERMINATION (CO)

1. Background Concentration	2.64 ppm
2. Project-related Pollutant Concentration	0.7
3. Anticipated Total Concentration	3.34
4. Ambient Air Quality Standard	20
5. Significance Determination: Significant if >0	**-16.66 (Less than Significant)**

SOURCES: CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDAQMD 2002) AND EL DORADO HILLS TOWN CENTER APARTMENTS TIA (FEHR & PEERS, 2017)

TABLE 2-8: OPERATIONAL EMISSIONS – POLLUTANT CONCENTRATION/SIGNIFICANCE DETERMINATION (PM_{10})

1. Background Concentration	18 ug/m^3
2. Project-related Pollutant Concentration	0
3. Anticipated Total Concentration	18
4. Ambient Air Quality Standard	50
5. Significance Determination: Significant if >0	**-32 (Less than Significant)**

SOURCES: CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDAQMD 2002) AND EL DORADO HILLS TOWN CENTER APARTMENTS TIA (FEHR & PEERS, 2017)

Lead, Sulfates, and H_2S: The El Dorado AQMD indicates that these pollutants may be assumed to be not significant except for industrial sources that have specific processes resulting in direct emissions of lead, sulfates, or H_2S, such as a foundry, acid plant, or pulp mill. The proposed project is a residential project and does not include any of these industrial sources. As such, the proposed project would not result in violations of the ambient air quality standards for lead, sulfates, and H_2S, and would represent a **less than significant** impact.

SO_2 and NO_2: For directly emitted SO_2 or NO_2, the El Dorado AQMD indicates that project-related concentrations need only be estimated if the project is one that contains components that are known to produce SO_2 or NO_2, such as sources that burn sulfur-based fuels or that have components such as power plants or oil refineries, or projects that generate more heavy-duty vehicle trips than occur generally. Since the proposed project would not utilized sulfur-based fuels or generate more heavy-duty vehicle trips than occur generally, this would represent a **less than significant** impact.

Visibility Impacts: The El Dorado AQMD indicates that it may be assumed that visibility impacts from development projects in the Mountain Counties Air Basin portion of the county are not significant; such impacts will be controlled to the maximum extent feasible through state and national regulatory programs governing vehicle emissions, and through mitigation required for ozone precursors and particulate matter. As such, the proposed project would not result in violations of the ambient air quality standards related to visibility, and would represent a **less than significant** impact.

Impact 2-4: Project construction has the potential to cause a violation of any air quality standard or contribute substantially to an existing or projected air quality violation (less than significant with mitigation)

Construction activities would result in temporary short-term emissions associated with vehicle trips from construction workers, operation of construction equipment, and the dust generated during construction activities. These temporary and short-term emissions would generate additional ozone precursors (ROG and NOx) as well as PM_{10} and $PM_{2.5}$.

The *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002) provides two approaches for screening construction equipment exhaust emissions for significance: one is based on fuel use, the other on the incorporation of mitigation measures into the project design. If exhaust emissions are determined to be not significant under either approach, then further calculations to determine construction equipment exhaust emissions, as set out in subsequent sections of this chapter, are not necessary. For fugitive dust (PM_{10}) emissions, the screening approach is based on specific dust suppression measures that will prevent visible emissions beyond the boundaries of the project. If those measures are incorporated into the project design, then further calculations to determine PM_{10} fugitive dust emissions are not necessary.

Screening of Construction Equipment Exhaust Emissions Based on Incorporation of Mitigation Measures. As described in Chapter 4 of the *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002), based on the El Dorado AQMD's experience with construction activities, and taking into account the temporary and non-continuous nature of construction emissions, ROG and NOx emissions during construction may be assumed to be not significant if (EDCAQMD 2002):

a. the project encompasses 12 acres or less of ground that is being worked at one time and at least one of the mitigation measures relating to such pollutants described in the *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002) (or an equivalent measure) is incorporated into the project; or

b. the project proponent commits to pay mitigation fees in accordance with the provisions of an established mitigation fee program in the District (or such program in another air district that is acceptable to District).

If ROG and NOx mass emissions are determined to be not significant under the provisions above, then it can be assumed that exhaust emissions of other air pollutants from the operation of equipment and worker commute vehicles are also not significant. In such event, the steps for estimating exhaust emissions of these other pollutants need not be undertaken.

The proposed project is 4.5 acres, which is less than the 12-acre threshold identified in (a) above, and the project includes at least one mitigation measure relating to such pollutants as contained in *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002) and as presented below (Mitigation Measures 2-2 through 2-5). As such, the proposed project would not result in violations of the ambient air quality standards, and would represent a **less than significant** impact.

Screening of Fugitive Dust PM_{10} Emissions Based on Incorporation of Mitigation Measures. As described in Chapter 4 of the *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002), mass emissions of fugitive dust PM_{10} need not be quantified, and may be assumed to be not significant; if the project includes mitigation measures that will prevent visible dust beyond the project property lines, in compliance with Rule 403 (EDCAQMD 2002).

The proposed project includes the fugitive dust mitigation measures contained in *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDCAQMD 2002) and as presented below. As such, the proposed project would not result in violations of the ambient air quality standards, and would represent a **less than significant** impact.

MITIGATION MEASURES

Mitigation Measure 2-2: *The El Dorado AQMD construction mitigation measures involve emission reductions of NOx, ROG, and PM_{10} which may include reformulated fuels, emulsified fuels, catalyst and filtration technologies, cleaner engine repowers, and new alternative-fueled trucks, among others. Heavy-duty diesel mitigation measures may qualify for state and air district incentive funding programs. Additional construction mitigation measures include emission reductions from controlling visible emissions from diesel-powered equipment and particulate matter emission control measures. At least one of the following measures must be implemented:*

- *Require the prime contractor to provide an approved plan demonstrating that heavy-duty (i.e., greater than 50 horsepower) off-road vehicles to be used in the construction project, and operated by either the prime contractor or any subcontractor, will achieve, at a minimum, a fleet-averaged 15 percent NOx reduction compared to the most recent CARB fleet average. Successful implementation of this measure requires the prime contractor to submit a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during the construction project. Usually the inventory includes the horsepower rating, engine production year, and hours of use or fuel throughput for each piece of equipment. In*

addition, the inventory list is updated and submitted monthly throughout the duration of when the construction activity occurs.

- *Obligate the prime contractor to use an alternative fuel, other than Diesel, verified by the California Air Resources Board or otherwise documented through emissions testing to have the greatest NOx and PM_{10} reduction benefit available, provided each pollutant is reduced by at least 15%.*
- *Obligate the prime contractor to use aqueous emulsified fuel verified by the California Air Resources Board or otherwise documented through emissions testing to have the greatest NOx and PM_{10} reduction benefit available, provided each pollutant is reduced by at least 15%.*

Mitigation Measure 2-3: *During construction activities, the project applicant shall implement the following Best Available Fugitive Dust Control Measures as outlined in the CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act (EDCAQMD 2002).*

- *1a. Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the District; two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR 1a-1. For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.*
- *1b. Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the District; for areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM method 1557 or other equivalent method approved by the District, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content; two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.*
- *1c. Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining areas unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.*
- *2a/b. Apply dust suppression in a sufficient quantity and frequency to maintain a stabilized surface; any areas which cannot be stabilized, as evidenced by wind driven dust, must have an application of water at least twice per day to at least 80 percent of the unstabilized area.*
- *2c. Apply chemical stabilizers within 5 working days or grading completion; OR 2d. Take action 3a or 3c specified for inactive disturbed surface areas.*
- *3a. Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible due to excessive slope or other safety conditions; OR 3b. Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR 3c. Establish a vegetative ground cover within 21 days after active operations have ceased; ground cover*

must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR 3d. Utilize any combination of control actions 3a, 3b and 3c such that, in total, they apply to all inactive disturbed surface areas.

- *4a. Water all roads used for any vehicular traffic at least once per every two hours of active operations; OR 4b. Water all roads used for any vehicular traffic once daily and restrict vehicle speed to 15 mph; OR 4c. Apply chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.*
- *5a. Apply chemical stabilizers; OR 5b. Apply water to at least 80 percent of the surface areas of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR 5c. Install a three-sided enclosure with walls with no more than 50 percent porosity that extend, at a minimum, to the top of the pile.*
- *6a. Pave or apply chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface starting from the point of intersection with the public paved surface, and extending for a centerline distance of at least 100 feet and width of at least 20 feet; OR 6b. Pave from the point of intersection with the public paved road surface, and extending for a centerline distance of at least 25 feet and a width of at least 20 feet, and install a track-out control device immediately adjacent to the paved surface such that exiting vehicles do not travel on any unpaved road surface after passing through the track-out control device.*
- *7a. Any other control measures approved by the District.*

Mitigation Measure 2-4: *During construction activities in high wind conditions, the project applicant shall implement the following Best Available Fugitive Dust Control Measures as outlined in the CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act (EDCAQMD 2002).*

- *1A. Cease all active operations, OR 2A. Apply water to soil not more than 15 minutes prior to moving such soil.*
- *0B. On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR 1B. Apply chemical stabilizers prior to a wind event; OR 2B. Apply water to all unstabilized disturbed areas 3 times per day; if there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR 3B. Take the actions specified in Table B.6, Item 3c; OR 4B. Utilize any combination of control actions specified in Table 1, Items 1B, 2B and 3B, such that, in total, they apply to all disturbed surfaced areas.*
- *1C. Apply chemical stabilizers prior to a wind event; OR 2C. Apply water twice per hour during active operation; OR 3C. Stop all vehicular traffic.*
- *1D. Apply water twice per hour; OR 2D. Install temporary coverings.*
- *1E. Cover all haul vehicles; OR 2E. Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for operation on both public and private roads.*
- *1F. Any other control measures approved by the District.*

Mitigation Measure 2-5: *Prior to the start of construction activities, the project applicant shall coordinate with the El Dorado AQMD to ensure that only low-VOC architectural coatings are utilized during the construction phase of the proposed project, for both indoor and outdoor surfaces. All architectural coatings used during the construction phase shall have a maximum allowable VOC content limit of 50 g/L.*

Impact 2-5: Potential to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors) (less than significant with mitigation)

El Dorado County is in non-attainment for Ozone, PM_{10}, and $PM_{2.5}$ standards. The El Dorado AQMD's primary criterion for determining whether a project has significant cumulative impacts is whether the project is consistent with an approved plan or mitigation program of District-wide or regional application in place for the pollutants emitted by the project. This criterion is applicable to both the construction and operation phases of a project for ROG and NOx (ozone precursors), and PM_{10}/$PM_{2.5}$ (particulates).

ROG and NOx. The Sacramento Regional Ozone Air Quality Attainment Plan (AQAP) was developed to bring the region (including the Mountain Counties Air Basin) into attainment as required by the federal and California Clean Air Acts. The AQAP assumes annual increases in air pollutant emissions resulting from regional growth; however, the AQAP also assumes the incremental increase in emissions will be partially offset through the implementation of stationary, area, and indirect source control measures contained within the AQAP. These measures consist of the District's rules and regulations and other development- and transportation-related mitigation measures. If a project can demonstrate consistency with the AQAP for ROG and NOx emissions, it can be categorized as not having a significant cumulative air quality impact with respect to ozone. As discussed under Impact 2-1, the project is consistent with the AQAP. As such, the proposed project would have a **less than cumulatively considerable** impact.

Particulates: As described in Chapter 8 of the *CEQA Guide to Air Quality Assessment, Determining Significance of Air Quality Impacts Under the California Environmental Quality Act* (EDAQMD 2002), a project would not be considered significant for cumulative impacts of particulates if the following conditions are met:

1. For projects that are principally development projects, or where the majority of the emissions of these pollutants is attributable to motor vehicle sources:
    a. The project is not significant for "project alone" emissions of these pollutants;
    b. The project complies with all applicable rules and regulations of the District; and
    c. The project is not cumulatively significant for ROG, NOx, and CO based on the criteria previously set forth.

As previously described under Impact 2-3, given the residential nature of the project, it would not generate trips by heavy-duty diesel vehicles in greater proportion than such trips occur generally on

public roadways, and its impact relative to particulate emissions would be less than significant. The project would not generate a significant impact from "project-alone" emissions of particulates. The proposed project would have a less than significant impact with regard to construction-related particulate emissions, after implementation of mitigation measures.

Furthermore, as the analysis above shows, the project is not cumulatively significant for ROG, NOx, and CO.

The proposed project would have a less than significant impact with regard to construction-related particulate emissions, after implementation of the applicable mitigation measures. The project would not generate a significant impact from "project-alone" emissions of particulates. The project would comply with all applicable rules and regulations of the District, and the project would not otherwise have a cumulative impact from criteria pollutants. Therefore, the proposed project would have a **less than cumulatively considerable** impact.

Impact 2-6: Potential to expose the public (especially schools, day care centers, hospitals, retirement homes, convalescent facilities, and residences) to substantial pollutant concentrations-Toxic Air Contaminants (less than significant)

A toxic air contaminant (TAC) is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air. However, their high toxicity or health risk may pose a threat to public health even at very low concentrations. In general, for those TACs that may cause cancer, there is no concentration that does not present some risk. This contrasts with the criteria pollutants for which acceptable levels of exposure can be determined and for which the state and federal governments have set ambient air quality standards.

The California Air Resources Board (CARB) published the *Air Quality and Land Use Handbook: A Community Health Perspective* (2007) to provide information to local planners and decision-makers about land use compatibility issues associated with emissions from industrial, commercial and mobile sources of air pollution. The CARB Handbook indicates that mobile sources continue to be the largest overall contributors to the State's air pollution problems, representing the greatest air pollution health risk to most Californians. The most serious pollutants on a statewide basis include diesel exhaust particulate matter (diesel PM), benzene, and 1,3-butadiene, all of which are emitted by motor vehicles. These mobile source air toxics are largely associated with freeways and high traffic roads. Non-mobile source air toxics are largely associated with industrial and commercial uses. Table 2-9 provides the California Air Resources Board minimum separation recommendations on siting sensitive land uses.

TABLE 2-9: CARB MINIMUM SEPARATION RECOMMENDATIONS ON SITING SENSITIVE LAND USES

Source Category	*Advisory Recommendations*
Freeways and High-Traffic Roads	• Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day.
Distribution Centers	• Avoid siting new sensitive land uses within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units (TRUs) per day, or where TRU unit operations exceed 300 hours per week). • Take into account the configuration of existing distribution centers and avoid locating residences and other new sensitive land uses near entry and exit points.
Rail Yards	• Avoid siting new sensitive land uses within 1,000 feet of a major service and maintenance rail yard. • Within one mile of a rail yard, consider possible siting limitations and mitigation approaches.
Ports	• Avoid siting of new sensitive land uses immediately downwind of ports in the most heavily impacted zones. Consult local air districts or the CARB on the status of pending analyses of health risks.
Refineries	• Avoid siting new sensitive land uses immediately downwind of petroleum refineries. Consult with local air districts and other local agencies to determine an appropriate separation.
Chrome Platers	• Avoid siting new sensitive land uses within 1,000 feet of a chrome plater.
Dry Cleaners Using Perchloro- ethylene	• Avoid siting new sensitive land uses within 300 feet of any dry cleaning operation. For operations with two or more machines, provide 500 feet. For operations with 3 or more machines, consult with the local air district. • Do not site new sensitive land uses in the same building with perc dry cleaning operations.
Gasoline Dispensing Facilities	• Avoid siting new sensitive land uses within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater). A 50-foot separation is recommended for typical gas dispensing facilities.

SOURCES: AIR QUALITY AND LAND USE HANDBOOK: A COMMUNITY HEALTH PERSPECTIVE" (CARB 2005)

Gasoline Dispensing Facilities: There are two gasoline dispensing facilities located near the project site. This includes a Valero located at the northwestern corner of Town Center and Post Street and a Chevron located at the southwestern corner of Town Center and Post Street. These are considered typical fuel dispensing facilities. The California Air Resources Board recommends that lead agencies provide a 50-foot separation for typical gas dispensing facilities. The closest fuel dispensing station at the Valero is located 956 feet from the project site boundary. The closest fuel dispensing station at the Chevron is located 984 feet from the project site boundary. The proposed project is consistent with the *CARB Minimum Separation Recommendations on Siting Sensitive Land Uses* (2005) for gasoline dispensing facilities.

Freeways and High-Traffic Roads: There is one freeway located near the project site. This includes a US 50 located directly north of the project site. The California Air Resources Board recommends that lead agencies provide avoid siting new sensitive land uses within 500 feet of a freeway. US 50 is located 511 feet from the project site boundary. The proposed project is consistent with the CARB Minimum Separation Recommendations on Siting Sensitive Land Uses (2005) for freeways. There are no high-traffic roads (urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day) within 500 feet of the project site.

***Conclusion*:** Implementation of the proposed project would not result in an increased exposure of sensitive receptors to localized concentrations of TACs. This proposed project would have a **less than significant** relative to this topic.

Impact 2-7: Potential to expose the public (especially schools, day care centers, hospitals, retirement homes, convalescent facilities, and residences) to substantial pollutant concentrations-Naturally Occurring Asbestos (less than significant)

The EPA Region 9 office is working in areas of California to address concerns about potential effects of naturally occurring asbestos. The term "asbestos" is used to describe a variety of fibrous minerals that, when airborne, can result in serious human health effects. Naturally Occurring Asbestos (NOA) is commonly associated with ultramafic rocks and serpentinite. Naturally occurring asbestos can take the form of long, thin, separable fibers. Natural weathering or human disturbance can break naturally occurring asbestos down to microscopic fibers, easily suspended in air. There is no health threat if asbestos fibers in soil remain undisturbed and do not become airborne. When inhaled, these thin fibers irritate tissues and resist the body's natural defenses. Asbestos, a known carcinogen, causes cancers of the lung and the lining of internal organs, as well as asbestosis and other diseases that inhibit lung function.

Ultramafic rocks, such as dunite, peridotite and pyroxenite, are igneous rocks comprised largely of iron-magnesium minerals. As they are intrusive in nature, these rocks often undergo metamorphosis, prior to their being exposed on the Earth's surface. The metamorphic rock serpentinite is a common product of the alteration process. A variety of minerals may be present within the host rock, including chrysotile, tremolite and actinolite.

Chrysotile, which is also known as "white asbestos" and found in serpentine rocks, is probably the most common NOA However, other types of asbestos, such as tremolite-actinolite, can also be found throughout California. Tremolite is most commonly associated with metamorphic formations containing dolomite and quartz. Tremolite tends to be whitish when magnesium-rich and trends towards dark green as iron increases. Actinolite, which can be found in metamorphic rocks rich in magnesium *or* iron, tends to be green to blackish-green.

Soil in El Dorado Hills has been known to have NOA, and project site lies within the Quarter Mile Buffer for More Likely to Contain Asbestos or Fault Line on the County's Asbestos Review Areas Map (7/21/2005). The project site was graded as part of the previous development in the Town Center; however, it is not known whether the soil material at the time of grading had NOA, or if any material containing NOA is currently on the project site. Because the project site lies within the Quarter Mile Buffer for More Likely to Contain Asbestos or Fault Line on the County's Asbestos Review Areas Map (7/21/2005) an Asbestos Hazard Dust Mitigation Plan must be prepared to ensure that adequate dust control and asbestos hazard mitigation measures are implemented during project construction. Additionally, the project must obtain AQMD approval prior to commencing construction activities. The applicant will not be allowed to "test out" of the Asbestos Hazard Dust Mitigation Plan by hiring a registered geologist to investigate. The following mitigation measure would ensure that any construction activities that may result in the release of asbestos would include appropriate measures contained within an Asbestos Hazard Dust Mitigation Plan to ensure that exposure to construction workers and the public is minimized to acceptable State and local levels. Implementation of the following mitigation measure would ensure that this potential impact is reduced to a **less than significant** level.

MITIGATION MEASURES

Mitigation Measure 2-6: *Prior to any grading activities, the project applicant shall prepare an Asbestos Hazard Dust Mitigation Plan and shall comply with applicable state and local regulations regarding asbestos, including ARB's asbestos airborne toxic control measure (ATCM) (Title 17, CCR § 93105 and 93106), to ensure that exposure to construction workers and the public is reduced to an acceptable level. The project applicant will not be allowed to "test out" of the Asbestos Hazard Dust Mitigation Plan by hiring a registered geologist to investigate.*

Impact 2-8: Potential to create objectionable odors affecting a substantial number of people (less than significant)

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the El Dorado County AQMD. The general nuisance rule (Heath and Safety Code §41700 and District Rule 205) is the basis for the threshold.

Examples of facilities that are known producers of odors include: Wastewater Treatment Facilities, Chemical Manufacturing, Sanitary Landfill, Fiberglass Manufacturing, Transfer Station, Painting/Coating Operations (e.g. auto body shops), Food Processing Facility, Petroleum Refinery, Asphalt Batch Plant, and Rendering Plant. Table 2-9 provides a list of common types of facilities known to produce odors.

TABLE 2-9: COMMON TYPES OF FACILITIES KNOWN TO PRODUCE ODORS

Land Use/Type of Operation
Wastewater Treatment Plant
Sanitary Landfill
Transfer Station
Composting Facility
Petroleum Refinery
Asphalt Batch Plant
Chemical Manufacturing
Fiberglass Manufacturing
Painting/Coating Operations
Rendering Plant
Coffee Roaster
Food Processing Facility

SOURCE: CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDCAQMD 2002).

The proposed project is a residential development and is not known to produce nuisance odors. Implementation of the proposed project would have a ***less than significant*** impact relative to this topic.

This chapter discusses regional greenhouse gas (GHG) emissions, climate change, and energy conservation impacts that could result from implementation of the proposed project. This section provides a background discussion of greenhouse gases and climate change linkages and effects of global climate change. This section is organized with an existing setting, regulatory setting, approach/methodology, and impact analysis. The analysis and discussion of the GHG, climate change, and energy conservation impacts in this section focuses on the proposed Project's consistency with local, regional, and statewide climate change planning efforts and discusses the context of these planning efforts as they relate to the proposed project. Disclosure and discussion of the project's estimated energy usage and greenhouse gas emissions are provided.

3.1 ENVIRONMENTAL SETTING

GREENHOUSE GASES AND CLIMATE CHANGE LINKAGES

Various gases in the Earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the Earth's surface temperature. Solar radiation enters Earth's atmosphere from space, and a portion of the radiation is absorbed by the Earth's surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation.

Naturally occurring GHGs include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and ozone (O_3). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also GHGs, but they are, for the most part, solely a product of industrial activities. Although the direct GHGs, including CO_2, CH_4, and N_2O, occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2011, concentrations of these three GHGs have increased globally by 40, 150, and 20 percent, respectively (IPCC, 2013).

Greenhouse gases, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs).

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. In California, the transportation sector is the largest emitter of GHGs, followed by the industrial sector (California Energy Commission, 2016).

As the name implies, global climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern, respectively. California produced 441 million gross metric tons of carbon dioxide equivalents ($MMTCO_2e$) in 2014 (California Energy Commission, 2016). By 2020, estimated business-as-usual greenhouse gas emissions in California are projected to be 509 $MMTCO_2e$ per

year (California Air Resources Board, 2015). Given that the U.S. EPA estimates that worldwide emissions from human activities totaled nearly 46 billion gross metric tons of carbon dioxide equivalents ($BMTCO_2e$) in 2010, California's incremental contribution to global GHGs is approximately 2% (U.S. EPA, 2014).

Carbon dioxide equivalents are a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. This potential, known as the global warming potential of a GHG, is also dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted.

Consumption of fossil fuels in the transportation sector was the single largest source of California's GHG emissions in 2014, accounting for 37% of total GHG emissions in the state. This category was followed by the industrial sector (24%), the electricity generation sector (including both in-state and out of-state sources) (20%) and the agriculture sector (8%) (California Energy Commission, 2016).

EFFECTS OF GLOBAL CLIMATE CHANGE

The effects of increasing global temperature are far-reaching and extremely difficult to quantify. The scientific community continues to study the effects of global climate change. In general, increases in the ambient global temperature as a result of increased GHGs are anticipated to result in rising sea levels, which could threaten coastal areas through accelerated coastal erosion, threats to levees and inland water systems and disruption to coastal wetlands and habitat.

If the temperature of the ocean warms, it is anticipated that the winter snow season would be shortened. Snowpack in the Sierra Nevada provides both water supply (runoff) and storage (within the snowpack before melting), which is a major source of supply for the state. The snowpack portion of the supply could potentially decline by 70% to 90% by the end of the 21st century (Cal EPA 2006). This phenomenon could lead to significant challenges securing an adequate water supply for a growing state population. Further, the increased ocean temperature could result in increased moisture flux into the state; however, since this would likely increasingly come in the form of rain rather than snow in the high elevations, increased precipitation could lead to increased potential and severity of flood events, placing more pressure on California's levee/flood control system.

Sea level has risen approximately seven inches during the last century and it is predicted to rise an additional 22 to 35 inches by 2100, depending on the future GHG emissions levels (Cal EPA 2006). If this occurs, resultant effects could include increased coastal flooding, saltwater intrusion and disruption of wetlands (Cal EPA 2006). As the existing climate throughout California changes over time, mass migration of species, or failure of species to migrate in time to adapt to the perturbations in climate, could also result. Under the emissions scenarios of the Climate Scenarios

report (Cal EPA 2006), the impacts of global warming in California are anticipated to include, but are not limited to, the following.

Public Health

Higher temperatures are expected to increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation are projected to increase from 25% to 35% under the lower warming range and to 75% to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures will increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts capture and transport water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snow pack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snow pack, increasing the risk of summer water shortages.

The state's water supplies are also at risk from rising sea levels. An influx of saltwater would degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta, a major state fresh water supply. Global warming is also projected to seriously affect agricultural areas, with California farmers projected to lose as much as 25% of the water supply they need; decrease the potential for hydropower production within the state (although the effects on hydropower are uncertain); and seriously harm winter tourism. Under the lower warming range, the snow dependent winter recreational season at lower elevations could be reduced by as much as one month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing, snowboarding, and other snow dependent recreational activities.

If GHG emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snow pack by as much as 70% to 90%. Under the lower warming scenario, snow pack losses are expected to be only half as large as those expected if temperatures were to rise to the higher warming range. How much

snow pack will be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snow pack would pose challenges to water managers, hamper hydropower generation, and nearly eliminate all skiing and other snow-related recreational activities.

Agriculture

Increased GHG emissions are expected to cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. Although higher carbon dioxide levels can stimulate plant production and increase plant water-use efficiency, California's farmers will face greater water demand for crops and a less reliable water supply as temperatures rise.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures are likely to worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts, and milk.

Crop growth and development will be affected, as will the intensity and frequency of pest and disease outbreaks. Rising temperatures will likely aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

In addition, continued global warming will likely shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion is expected in many species while range contractions are less likely in rapidly evolving species with significant populations already established. Should range contractions occur, it is likely that new or different weed species will fill the emerging gaps. Continued global warming is also likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

Global warming is expected to alter the distribution and character of natural vegetation thereby resulting in a possible increased risk of large of wildfires. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the state. For example, if precipitation increases as temperatures rise, wildfires in southern California are expected to increase by approximately 30% toward the end of the century. In contrast, precipitation decreases could increase wildfires in northern California by up to 90%.

Moreover, continued global warming will alter natural ecosystems and biological diversity within the state. For example, alpine and sub-alpine ecosystems are expected to decline by as much as

60% to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests is also expected to decrease as a result of global warming.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures will increasingly threaten the state's coastal regions. Under the higher warming scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

ENERGY CONSUMPTION

Energy is California is consumed from a wide variety of sources. Fossil fuels (including gasoline and diesel fuel, natural gas, and energy used to generate electricity) are most widely used form of energy in the State. However, renewable source of energy (such as solar and wind) are growing in proportion to California's overall energy mix. A large driver of renewable sources of energy in California is the State's current Renewable Portfolio Standard (RPS), which requires the State to derive at least 33% of electricity generated from renewable resources by 2020, and 50 percent by 2030.

Overall, in 2013, California ranked as the third-most energy efficient state in the nation (U.S. EIA, 2016). California's per capita rate of energy usage has remained relatively constant since the 1970's. Many State regulations since the 1970's, including new building energy efficiency standards, vehicle fleet efficiency measures, as well as growing public awareness, have helped to keep per capita energy usage in the State in check.

The consumption of nonrenewable energy (primarily gasoline and diesel fuel) associated with the operation of passenger, public transit, and commercial vehicles results in GHG emissions that ultimately result in global climate change. Alternative fuels such as natural gas, ethanol, and electricity (unless derived from solar, wind, nuclear, or other energy sources that do not produce carbon emissions) also result in GHG emissions and contribute to global climate change.

Electricity Consumption

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and nuclear generation resources. Approximately 71 percent of the electrical power needed to meet California's demand is produced in the state. Approximately 29 percent of its electricity demand is imported from the Pacific Northwest and the Southwest (California Energy Commission, 2012). In 2010, California's in-state generated electricity was derived from natural gas (53.4 percent), large hydroelectric resources (14.6 percent), coal (1.7 percent), nuclear sources (15.7 percent), and renewable resources that include geothermal, biomass, small hydroelectric resources, wind, and solar (14.6 percent) (California Energy Commission, 2012).

According to the California Energy Commission (CEC), total statewide electricity consumption increased from 166,979 gigawatt-hours (GWh) in 1980 to 228,038 GWh in 1990, which is an

estimated annual growth rate of 3.66 percent. The statewide electricity consumption in 1997 was 246,225 GWh, reflecting an annual growth rate of 1.14 percent between 1990 and 1997 (California Energy Commission Energy Almanac, 2012). Statewide consumption was 274,985 GWh in 2010, an annual growth rate of 0.9 percent between 1997 and 2010.

Oil

The primary energy source for the United States is oil, which is refined to produce fuels like gasoline, diesel, and jet fuel. Oil is a finite, nonrenewable energy source. World consumption of petroleum products has grown steadily in the last several decades. As of 2009, world consumption of oil had reached 96 million barrels per day. The United States, with approximately five percent of the world's population, accounts for approximately 19 percent of world oil consumption, or approximately 18.6 million barrels per day (The World Factbook 2009, Washington, DC: Central Intelligence Agency, 2009). The transportation sector relies heavily on oil. In California, petroleum based fuels currently provide approximately 96 percent of the state's transportation energy needs (California Energy Commission, 2012).

Natural Gas/Propane

The state produces approximately 12 percent of its natural gas, while obtaining 22 percent from Canada and 65 percent from the Rockies and the Southwest (California Energy Commission, 2012). In 2006, California produced 325.6 billion cubic feet of natural gas (California Energy Commission, 2012).

3.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor National Ambient Air Quality Standards (NAAQS) vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The EPA is responsible for administering the FCAA. The FCAA requires the EPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 sought to ensure that all vehicles sold in the U.S. would meet certain fuel economy goals. Through this Act, Congress established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the

National Highway Traffic and Safety Administration, which is part of the U.S. Department of Transportation (USDOT), is responsible for establishing additional vehicle standards and for revising existing standards.

Since 1990, the fuel economy standard for new passenger cars has been 27.5 mpg. Since 1996, the fuel economy standard for new light trucks (gross vehicle weight of 8,500 pounds or less) has been 20.7 mpg. Heavy-duty vehicles (i.e., vehicles and trucks over 8,500 pounds gross vehicle weight) are not currently subject to fuel economy standards. Compliance with federal fuel economy standards is determined on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the U.S. The Corporate Average Fuel Economy (CAFE) program, which is administered by the EPA, was created to determine vehicle manufacturers' compliance with the fuel economy standards. The EPA calculates a CAFE value for each manufacturer based on city and highway fuel economy test results and vehicle sales. Based on the information generated under the CAFE program, the USDOT is authorized to assess penalties for noncompliance.

Energy Policy Act of 1992 (EPAct)

The Energy Policy Act of 1992 (EPAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAct requires certain federal, state, and local government and private fleets to purchase a percentage of light duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are included in EPAct. Federal tax deductions will be allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs.

Energy Policy Act of 2005

The Energy Policy Act of 2005 was signed into law on August 8, 2005. Generally, the act provides for renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for a clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

Intermodal Surface Transportation Efficiency Act (ISTEA)

ISTEA (49 U.S.C. § 101 et seq.) promoted the development of intermodal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that metropolitan planning organizations (MPOs), such as SACOG, were to address in developing transportation plans and programs, including some energy-related factors. To meet the ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values that were to guide transportation decisions in that metropolitan area. The planning process was then to address these policies. Another requirement was to consider the consistency of transportation planning with federal, state, and local energy goals. Through this requirement, energy consumption was expected to become a criterion, along with cost and other values that determine the best transportation solution.

The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)

SAFETEA-LU (23 U.S.C. § 507), renewed the Transportation Equity Act for the 21st Century (TEA-21) of 1998 (23 U.S.C.; 49 U.S.C.) through FY 2009. SAFETEA-LU authorized the federal surface transportation programs for highways, highway safety, and transit. SAFETEA-LU addressed the many challenges facing our transportation system today—such as improving safety, reducing traffic congestion, improving efficiency in freight movement, increasing intermodal connectivity, and protecting the environment—as well as laying the groundwork for addressing future challenges. SAFETEA-LU promoted more efficient and effective federal surface transportation programs by focusing on transportation issues of national significance, while giving state and local transportation decision makers more flexibility to solve transportation problems in their communities. SAFETEA-LU was extended in March of 2010 for nine months, and expired in December of the same year. In June 2012, SAFETEA-LU was replaced by the Moving Ahead for Progress in the 21st Century Act (MAP-21), which will take effect October 1, 2012.

Federal Climate Change Policy

According to the EPA, "the United States government has established a comprehensive policy to address climate change" that includes slowing the growth of emissions; strengthening science, technology, and institutions; and enhancing international cooperation. To implement this policy, "the Federal government is using voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science." The federal government's goal is to reduce the greenhouse gas (GHG) intensity (a measurement of GHG emissions per unit of economic activity) of the American economy by 18 percent over the 10-year period from 2002 to 2012. In addition, the EPA administers multiple programs that encourage voluntary GHG reductions, including "ENERGY STAR", "Climate Leaders", and Methane Voluntary Programs. However, as of this writing, there are no adopted federal plans, policies, regulations, or laws directly regulating GHG emissions.

Mandatory Greenhouse Gas Reporting Rule

On September 22, 2009, EPA issued a final rule for mandatory reporting of GHGs from large GHG emissions sources in the United States. In general, this national reporting requirement will provide EPA with accurate and timely GHG emissions data from facilities that emit 25,000 metric tons or more of CO_2 per year. This publically available data will allow the reporters to track their own emissions, compare them to similar facilities, and aid in identifying cost effective opportunities to reduce emissions in the future. Reporting is at the facility level, except that certain suppliers of fossil fuels and industrial greenhouse gases along with vehicle and engine manufacturers will report at the corporate level. An estimated 85% of the total U.S. GHG emissions, from approximately 10,000 facilities, are covered by this final rule.

STATE

Assembly Bill 1493

In response to AB 1493, CARB approved amendments to the California Code of Regulations (CCR) adding GHG emission standards to California's existing motor vehicle emission standards. Amendments to CCR Title 13 Sections 1900 (CCR 13 1900) and 1961 (CCR 13 1961), and adoption of Section 1961.1 (CCR 13 1961.1) require automobile manufacturers to meet fleet average GHG emission limits for all passenger cars, light-duty trucks within various weight criteria, and medium-duty passenger vehicle weight classes beginning with the 2009 model year. Emission limits are further reduced each model year through 2016. For passenger cars and light-duty trucks 3,750 pounds or less loaded vehicle weight (LVW), the 2016 GHG emission limits are approximately 37 percent lower than during the first year of the regulations in 2009. For medium-duty passenger vehicles and light-duty trucks 3,751 LVW to 8,500 pounds gross vehicle weight (GVW), GHG emissions are reduced approximately 24 percent between 2009 and 2016.

CARB requested a waiver of federal preemption of California's Greenhouse Gas Emissions Standards. The intent of the waiver is to allow California to enact emissions standards to reduce carbon dioxide and other greenhouse gas emissions from automobiles in accordance with the regulation amendments to the CCRs that fulfill the requirements of AB 1493. The EPA granted a waiver to California to implement its greenhouse gas emissions standards for cars.

Assembly Bill 1007

Assembly Bill 1007, (Pavley, Chapter 371, Statutes of 2005) directed the CEC to prepare a plan to increase the use of alternative fuels in California. As a result, the CEC prepared the State Alternative Fuels Plan in consultation with the state, federal, and local agencies. The plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production. The Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce greenhouse gas emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

Bioenergy Action Plan – Executive Order #S-06-06

Executive Order #S-06-06 establishes targets for the use and production of biofuels and biopower and directs state agencies to work together to advance biomass programs in California while providing environmental protection and mitigation. The executive order establishes the following target to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels within California by 2010, 40 percent by 2020, and 75 percent by 2050. The executive order also calls for the state to meet a target for use of biomass electricity.

California Executive Orders S-3-05 and S-20-06, and Assembly Bill 32

On June 1, 2005, Governor Arnold Schwarzenegger signed Executive Order S-3-05. The goal of this Executive Order is to reduce California's GHG emissions to: 1) 2000 levels by 2010, 2) 1990 levels by the 2020 and 3) 80% below the 1990 levels by the year 2050.

In 2006, this goal was further reinforced with the passage of Assembly Bill 32 (AB 32), the Global Warming Solutions Act of 2006. AB 32 sets the same overall GHG emissions reduction goals while further mandating that CARB create a plan, which includes market mechanisms, and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." Executive Order S-20-06 further directs state agencies to begin implementing AB 32, including the recommendations made by the state's Climate Action Team.

EO S-13-08

EO S-13-08 was issued on November 14, 2008. The EO is intended to hasten California's response to the impacts of global climate change, particularly sea level rise, and directs state agencies to take specified actions to assess and plan for such impacts, including requesting the National Academy of Sciences to prepare a Sea Level Rise Assessment Report, directing the Business, Transportation, and Housing Agency to assess the vulnerability of the State's transportation systems to sea level rise, and requiring the Office of Planning and Research and the Natural Resources Agency to provide land use planning guidance related to sea level rise and other climate change impacts.

The order also required State agencies to develop adaptation strategies to respond to the impacts of global climate change that are predicted to occur over the next 50 to 100 years. The adaption strategies report summarizes key climate change impacts to the State for the following areas: public health; ocean and coastal resources; water supply and flood protection; agriculture; forestry; biodiversity and habitat; and transportation and energy infrastructure. The report recommends strategies and specific responsibilities related to water supply, planning and land use, public health, fire protection, and energy conservation.

Assembly Bill 32- Climate Change Scoping Plan

2008 Climate Change Scoping Plan: On December 11, 2008 ARB adopted its *Climate Change Scoping Plan* (2008 Scoping Plan), which functions as a roadmap of ARB's plans to achieve GHG reductions in California required by AB 32 through subsequently enacted regulations. The 2008 Scoping Plan contains the main strategies California has implemented to reduce CO_2e emissions by 169 million metric tons (MMT), or approximately 30 percent, from the state's projected 2020 emissions level of 596 MMT of CO_2e under a business-as-usual scenario. (This is a reduction of 42 MMT CO_2e, or almost 10 percent, from 2002–2004 average emissions, but requires the reductions in the face of population and economic growth through 2020.) The 2008 Scoping Plan also breaks down the amount of GHG emissions reductions ARB recommends for each emissions sector of the state's GHG inventory. The 2008 Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- improved emissions standards for light-duty vehicles (estimated reductions of 31.7 MMT CO_2e),
- the Low-Carbon Fuel Standard (15.0 MMT CO_2e),
- energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO_2e), and
- a renewable portfolio standard for electricity production (21.3 MMT CO_2e).

First Update to the Climate Change Scoping Plan: In June 2013, CARB kicked off a public process intended develop the First Update to the Climate Change Scoping Plan (2014 Scoping Plan). The public process included: regional workshops, input/advise from stakeholders, advise from the Environmental Justice Advisory Committee, public review and comment of a draft Scoping Plan, and ultimately public hearings. On May 22, 2014, the First Update to the Climate Change Scoping Plan was approved by the Board.

The 2014 Scoping Plan indicates that California is on track to meet the near-term 2020 greenhouse gas limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32. The set of actions the State is taking is driving down greenhouse emissions and moving the State steadily in the direction of a cleaner energy economy. For instance, the 2014 Scoping Plan indicates that currently, about 23 percent of the State's electricity comes from renewable power and that this will increase to at least 33 percent by 2020 under new requirements set in place in 2011. The 2014 Scoping Plan indicates that collectively, the State's set of vehicle, fuels, and land use policies will cut in half emissions from passenger transportation and drivers' fuel costs over the next 20 years. The 2014 Scoping Plan cites California's Low Carbon Fuel Standard (LCFS) and California's vehicle GHG standards (Pavley) as two standards that have, and will continue to, dramatically scale up emission reductions in the future. The 2014 Scoping Plan cites work by regulators on developing a national GHG standard and corresponding fuel efficiency standard for medium- and heavy-duty trucks as well as California's pioneering zero emission vehicles (ZEV) regulation as areas where California is making major strides toward reducing the future GHG emission. The 2014 Scoping Plan indicates that seven Metropolitan Planning Organizations have adopted Sustainable Community Strategies that are intended to help drive GHG emission reductions, by creating more livable communities that offer greater housing and transportation options; improved access to resources and services; safer, more vibrant neighborhoods; and healthier lifestyles where people can live, work, and play without having to travel long distances or sit through congestion. Lastly, the 2014 Scoping Plan cites the Cap-and-Trade Program launched by California, as a program that will ensure that California remains on track to continually reduce emissions and meet the 2020 limit and play a critical role in keeping California on the right emissions reduction trajectory to meet ongoing reduction targets at the lowest possible cost.

California Strategy to Reduce Petroleum Dependence (AB 2076)

In response to the requirements of AB 2076 (Chapter 936, Statutes of 2000), the CEC and the CARB developed a strategy to reduce petroleum dependence in California. The strategy, *Reducing California's Petroleum Dependence*, was adopted by the CEC and CARB in 2003. The strategy recommends that California reduce on-road gasoline and diesel fuel demand to 15 percent below

2003 demand levels by 2020 and maintain that level for the foreseeable future; the Governor and Legislature work to establish national fuel economy standards that double the fuel efficiency of new cars, light trucks, and sport utility vehicles (SUVs); and increase the use of non- petroleum fuels to 20 percent of on-road fuel consumption by 2020 and 30 percent by 2030.

Climate Action Program at Caltrans

The California Department of Transportation, Business, Transportation, and Housing Agency, prepared a Climate Action Program in response to new regulatory directives. The goal of the Climate Action Program is to promote clean and energy efficient transportation, and provide guidance for mainstreaming energy and climate change issues into business operations. The overall approach to lower fuel consumption and CO_2 from transportation is twofold: (1) reduce congestion and improve efficiency of transportation systems through smart land use, operational improvements, and Intelligent Transportation Systems; and (2) institutionalize energy efficiency and GHG emission reduction measures and technology into planning, project development, operations, and maintenance of transportation facilities, fleets, buildings, and equipment.

The reasoning underlying the Climate Action Program is the conclusion that "the most effective approach to addressing GHG reduction, in the short-to-medium term, is strong technology policy and market mechanisms to encourage innovations. Rapid development and availability of alternative fuels and vehicles, increased efficiency in new cars and trucks (light and heavy duty), and super clean fuels are the most direct approach to reducing GHG emissions from motor vehicles (emission performance standards and fuel or carbon performance standards)."

Governor's Low Carbon Fuel Standard (Executive Order #S-01-07)

Executive Order #S-01-07 establishes a statewide goal to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020 through establishment of a Low Carbon Fuel Standard. The Low Carbon Fuel Standard is incorporated into the State Alternative Fuels Plan and is one of the proposed discrete early action GHG reduction measures identified by CARB pursuant to AB 32.

Senate Bill 97 (SB 97)

Senate Bill 97 (Chapter 185, 2007) required the Governor's Office of Planning and Research (OPR) to develop recommended amendments to the State CEQA Guidelines for addressing greenhouse gas emissions. OPR prepared its recommended amendments to the State CEQA Guidelines to provide guidance to public agencies regarding the analysis and mitigation of greenhouse gas emissions and the effects of greenhouse gas emissions in draft CEQA documents. The Amendments became effective on March 18, 2010.

Senate Bill 375

Sen. Bill No. 375 (Stats. 2008, ch. 728) (SB 375) was built on AB 32 (California's 2006 climate change law). SB 375's core provision is a requirement for regional transportation agencies to develop a Sustainable Communities Strategy (SCS) in order to reduce GHG emissions from passenger vehicles. The SCS is one component of the Regional Transportation Plan (RTP).

The SCS outlines the region's plan for combining transportation resources, such as roads and mass transit, with a realistic land use pattern, in order to meet a state target for reducing GHG emissions. The strategy must take into account the region's housing needs, transportation demands, and protection of resource and farmlands.

Additionally, SB 375 modified the state's Housing Element Law to achieve consistency between the land use pattern outlined in the SCS and the Regional Housing Needs Assessment allocation. The legislation also substantially improved cities' and counties' accountability for carrying out their housing element plans.

Finally, SB 375 amended the California Environmental Quality Act (Pub. Resources Code, § 21000 et seq.) to ease the environmental review of developments that help reduce the growth of GHG emissions.

Senate Bill 32 (SB 32)

Senate Bill 32, which passed into law in 2016, sets the target of reducing greenhouse gas emissions to 40 percent below the 1990 level by the year 2030. SB 32 extends the original set of greenhouse gas targets provided by the passage of AB 32 (the Global Warmings Solutions Act of 2006). This new target sets an aggressive goalpost, helping the State along its pathway to achieve its longer term goal of an 80 percent reduction in greenhouse gas emissions by the year 2050.

California Building Energy Efficiency Standards

Title 24, Part 6 of the California Code of Regulations, known as the Building Energy Efficiency Standards, was established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. On January 1, 2010, the California Building Standards Commission adopted CALGreen and became the first state in the United States to adopt a statewide green building standards code. CALGreen requires new buildings to reduce water consumption by 20 percent, divert 50 percent of construction waste from landfills, and install low pollutant-emitting materials.

CEQA Guidelines Appendix F

In order to assure that energy implications are considered in project decisions, CEQA requires that EIRs include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy. The goal of conserving energy implies the wise and efficient use of energy. Appendix F of the CEQA Guidelines describes how EIRs should discuss potential energy impacts of proposed projects.

3.3 IMPACTS AND MITIGATION MEASURES

GREENHOUSE GAS EMISSIONS THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, climate change-related impacts are considered significant if implementation of the proposed project would do any of the following:

1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Various Air Districts within the Sacramento region have recently updated their greenhouse gas emissions thresholds. The El Dorado County Air Quality Management District (EDCAQMD) recommends that greenhouse gas emissions thresholds be utilized from nearby Air Districts, such as the Placer County Air Pollution Control District (PCAPCD). Based on correspondence with El Dorado County Air Quality Management District (EDCAQMD)[1], it was recommended that this analysis utilize the recently updated greenhouse gas thresholds from the nearby PCAPCD for the purposes of greenhouse gas emissions analysis. These thresholds were updated within the *PCAPCD CEQA Thresholds of Significance Justification Report* in October 2016. The PCAPCD provides the following significance thresholds for GHGs:

- Bright-line Threshold of 10,000 metric tons of CO_2e per year for the construction and operational phases of land use projects as well as the stationary source projects
- Efficiency Matrix for the operational phase of land use development projects when emissions exceed the De Minimis Level, and
- De Minimis Level for the operational phases of 1,100 metric tons of CO_2e per year.

GHG emissions from projects that exceed 10,000 MT CO_2e/yr would be deemed to have a cumulatively considerable contribution to global climate change. For a land use project, this level of emissions is equivalent to a project size of approximately 646 single-family dwelling units, or a 323,955 square feet commercial building.

The De Minimis Level for the operational phases of 1,100 MT CO_2e/yr represents an emissions level which can be considered as less than cumulatively considerable and be excluded from the further GHG impact analysis. This level of emissions is equivalent to a project size of approximately 71 single-family units, or a 35,635 square feet commercial building.

Projects with GHG emissions which exceed the De Minimis Level of 1,100 MT CO_2e/yr, but less than 10,000 MT CO_2e/year can still be found less than cumulatively considerable when the result of project related efficiency analysis would meet one of conditions in the efficiency matrix for the applicable land use setting and land use type provided.

These thresholds are utilized for the purposes of this analysis.

ENERGY CONSERVATION THRESHOLDS OF SIGNIFICANCE

Additionally, per Appendix F of the State CEQA Guidelines, the proposed Project would result in a significant impact on energy use if it would:

[1] Phone correspondence with EDCAPCD Senior Planner Adam Baugman, on April 24, 2017 at 1:15pm.

- Result in significant adverse impacts related to Project energy requirements, energy use inefficiencies, and/or energy intensiveness of materials by amount and fuel type for each stage of the Project including construction, operations, maintenance, and/or removal;
- Result in significant adverse impacts on local and regional energy supplies and on requirements for additional capacity;
- Result in significant adverse impacts on peak and base period demands for electricity and other forms of energy;
- Fail to comply with existing energy standards;
- Result in significant adverse impacts on energy resources;
- Result in significant adverse impacts related to transportation energy use requirements of the Project and use of transportation alternatives; or
- Conflict, or create an inconsistency, with any applicable plan, policy, or regulation adopted for the purpose of avoiding or mitigating environmental effects related to energy conservation.

In order to determine whether or not the proposed Project would result in a significant impact on energy use, this EIR includes an analysis of proposed Project energy use, provided below.

IMPACTS AND MITIGATION MEASURES

Impact 3-1: Potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment or potential to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases (less than significant with mitigation)

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. Implementation of the proposed project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to future development would be primarily associated with increases of CO_2 and other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O), from mobile sources and utility usage.

The proposed project's short-term construction-related and long-term operational GHG emissions were estimated using the California Emission Estimator Model (CalEEMod)™ (v.2016.3.1). CalEEMod is a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including

vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Emissions are expressed in annual metric tons of CO_2 equivalent units of measure (i.e., $MTCO_2e$), based on the global warming potential of the individual pollutants.

Short-Term Construction GHG Emissions: Estimated increases in GHG emissions associated with construction of the proposed project are summarized in Table 3-2.

TABLE 3-2: CONSTRUCTION GHG EMISSIONS (UNMITIGATED METRIC TONS/YR)

	Bio- CO_2	*NBio- CO_2*	*Total CO_2*	*CH_4*	*N2O*	*CO_2e*
2018	0.0000	287.0455	287.0455	0.0477	0.0000	288.2375
2019	0.0000	316.6120	316.6120	0.0511	0.0000	317.8899
Total	**0.0000**	**603.6575**	**603.6575**	**0.0988**	**0**	**606.1274**

SOURCES: CALEEMOD (V.2016.3.1) AND CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDCAQMD 2002)

As presented in the table, short-term construction emissions of GHG associated are estimated to be 606.1274 $MTCO_2e$. Construction GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change in the long-term. Due to the size of the proposed project, the project's estimated construction-related GHG contribution to global climate change would be considered negligible on the overall global emissions scale.

Long-Term Operational GHG Emissions: The long-term operational GHG emissions estimate for the proposed project incorporates the project's potential area source and mobile emissions, and emissions associated with energy (electricity and natural gas), water usage, wastewater, and solid waste generation.

For the mitigated scenario, the modeling included mitigation inputs including the following:

Mobile Source Mitigation (*These are implemented through the project design and location)

- Increase Density
- Improve Walkability Design
- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network
- Provide Traffic Calming Measures

Energy Source Mitigation

- Exceed Title 24 by 10 percent
- Install High Efficiency Lighting
- Install Energy Efficient Appliances

Area Source Mitigation

- Use only Natural Gas Hearths

Water Mitigation

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

Estimated GHG emissions associated with the proposed project during the first year of operation in 2020 with the above mitigation incorporated are summarized in Table 3-3. As shown in the table, the annual 2020 GHG emissions associated with the proposed project would be 1,466.3266 $MTCO_2e$ with mitigation incorporated.

TABLE 3-3: OPERATIONAL GHG EMISSIONS 2020 (MITIGATED METRIC TONS/YR)

	Bio- CO_2	*NBio- CO_2*	*Total CO_2*	*CH_4*	*N_2O*	*CO_2e*
Area	0.0000	154.2969	154.2969	5.4400e-003	2.7800e-003	155.2617
Energy	0.0000	343.2830	343.2830	0.0142	3.6800e-003	344.7338
Mobile	0.0000	873.7700	873.7700	0.0723	0.0000	875.5785
Waste	19.9824	0.0000	19.9824	1.1809	0.0000	49.5056
Water	3.5388	25.9624	29.5012	0.3646	8.8300e-003	41.2470
Total	23.5212	1,397.3123	1,420.8335	1.6375	0.0153	1,466.3266

SOURCES: CALEEMOD (V.2016.3.1) AND CEQA GUIDE TO AIR QUALITY ASSESSMENT, DETERMINING SIGNIFICANCE OF AIR QUALITY IMPACTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (EDCAQMD 2002)

As described previously, EDCAPCD, as the lead agency, has chosen to utilize the following significance thresholds for GHGs:

- Bright-line Threshold of 10,000 metric tons of CO_2e per year for the construction and operational phases of land use projects as well as the stationary source projects
- Efficiency Matrix for the operational phase of land use development projects when emissions exceed the De Minimis Level, and
- De Minimis Level for the operational phases of 1,100 metric tons of CO_2e per year.

GHG emissions from projects that exceed 10,000 MT CO_2e/yr would be deemed to have a cumulatively considerable contribution to global climate change. For a land use project, this level of emissions is equivalent to a project size of approximately 646 single-family dwelling units, or a 323,955 square feet commercial building.

The De Minimis Level for the operational phases of 1,100 MT CO_2e/yr represents an emissions level which can be considered as less than cumulatively considerable and be excluded from the further GHG impact analysis. This level of emissions is equivalent to a project size of approximately 71 single-family units, or a 35,635 square feet commercial building.

Projects with GHG emissions which exceed the De Minimis Level of 1,100 MT CO_2e/yr, but less than 10,000 MT CO_2e/year can still be found less than cumulatively considerable when the result of project related efficiency analysis would meet one of conditions in the efficiency matrix for the applicable land use setting and land use type provided. The efficiency matrix is provided in Table 3.4, below.

TABLE 3-4: GREENHOUSE GAS THRESHOLDS EFFICIENCY MATRIX

Residential		Non-residential	
Urban	**Rural**	**Urban**	**Rural**
MT CO2e/capita		MT CO2e/capita	
4.5	5.5	26.5	27.3

Source: EDCAQMD, 2017

Given that the proposed project is a residential project within an urban setting, the appropriate efficiency matrix threshold for the proposed project is 4.5 MT CO_2e/capita.

As shown in Table 3-3, the proposed project's operational GHG emissions would equal 1,466.3266 MT CO_2e under the mitigated scenario. Therefore, even with mitigation incorporated, the proposed project's operational GHG emissions would exceed the De Minimis threshold of 1,100 metric tons of CO_2e per year.

As previously stated, a per capita emissions threshold (the Efficiency Matrix threshold) that would be applicable to a project if it were to exceed the De Minimis threshold but not exceed the 10,000 MT CO_2e/year bright light threshold. If the Efficiency Matrix threshold were to be met by the proposed project, the proposed project would be considered to have a less than significant impact with regard to GHG emissions and would be excluded from further GHG impact analysis.

The proposed project would include 214 units, consisting of two apartment buildings, a parking structure, outdoor recreation areas, and an informal open space area. A 5-level parking structure located in the middle of the complex would provide approximately 383 parking spaces for residents and visitors, with an additional five spaces of surface parking provided elsewhere on the site. As described in the Initial Study for the proposed project, based on a population multiplier in the El Dorado County General Plan for a multi-family type of project[2], a total of 492 persons would be anticipated to live in the proposed project. Given 492 new residents, the mitigated per capita emissions would be 2.98 MT CO_2e/capita. The mitigated projected per capita emissions of the proposed project would therefore be lower than the applicable per capita emissions threshold of 4.5 MT CO_2e/capita.

Conclusion: Short-term construction GHG emissions are a one-time release of GHGs and are not expected to significantly contribute to global climate change over the lifetime of the proposed project. Operational GHG emissions are subject to the GHG thresholds. The proposed project would not exceed the applicable per capita emissions threshold of 4.5 MT CO_2e/capita, both

[2] Table 2-2, Land Use Densities and Residential Population Ranges in the Land Use Section of the General Plan sets Persons per Housing Unit for the Multi-Family Residential Land Use Designation at 2.3 persons per household.

during unmitigated and unmitigated scenarios. the proposed project would not hinder the State's ability to reach the GHG reduction target nor conflict with any applicable plan, policy, or regulation related to GHG reduction, and impacts related to GHG emissions and global climate change would be considered **less than significant**.

MITIGATION MEASURES

Implement **Mitigation Measure 2-1**.

Impact 3.2: Potential for the project implementation to result in the inefficient, wasteful, or unnecessary use of energy resources (less than significant)

Appendix F of the State CEQA Guidelines requires consideration of the potentially significant energy implications of a project. CEQA requires mitigation measures to reduce "wasteful, inefficient and unnecessary" energy usage (Public Resources Code Section 21100, subdivision [b][3]). According to Appendix F of the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed project would be considered "wasteful, inefficient, and unnecessary" if it were to violate state and federal energy standards and/or result in significant adverse impacts related to project energy requirements, energy inefficiencies, energy intensiveness of materials, cause significant impacts on local and regional energy supplies or generate requirements for additional capacity, fail to comply with existing energy standards, otherwise result in significant adverse impacts on energy resources, or conflict or create an inconsistency with applicable plan, policy, or regulation.

The proposed project is primarily a residential development, with 214 apartment units, composed of two apartment buildings, a parking structure, outdoor recreation areas, and an informal open space area. The apartment units would range from 576 square feet to 1,195 square feet in size, with a mix of 114 studio/1-bedroom units and 100 2-bedroom units. The proposed project uses would not have a high or wasteful demand for energy. The amount of energy used at the residential uses within the project site would directly correlate to the number and size of residential units, the energy consumption of associated unit appliances, garage usage, and outdoor lighting, landscape maintenance, and other energy uses associated with project site activities. Other proposed project energy uses include fuel used by vehicle trips generated by the project during its construction and operation, and fuel used by off-road construction vehicles during construction. The following discussion provides calculated levels of energy use expected for the proposed Project, based on commonly used modelling software (i.e. CalEEMod v.2016.3.1 and the California Air Resource Board's EMFAC2014). It should be noted that many of the assumptions provided by CalEEMod are conservative relative to the proposed project. Therefore, this discussion provides conservative estimate of proposed project energy usage.

ELECTRICITY AND NATURAL GAS

Electricity and natural gas used by the proposed project would be used for primarily for residential housing end uses. Additionally, the energy required to pump water and wastewater to and within the project site is included under electricity usage. Total annual unmitigated and mitigated electricity (kWh) and natural gas (kBTU) usage associated with the operation of the proposed Project are shown in Tables 3.5 and 3.6, below (as provided by CalEEMod). The proposed project incorporates feasible mitigation to reduce the proposed project's operational electricity and natural gas consumption (see Mitigation Measures 2.1 within Air Quality section).

TABLE 3.5: PROJECT OPERATIONAL NATURAL GAS AND ELECTRICITY USAGE (UNMITIGATED SCENARIO)

ENERGY[A]	*NATURAL GAS (KBTU/YEAR)*	*ELECTRICITY (KWH/YEAR)*
Apartments Mid Rise	1,049,350	1,069,570
Total	**1,049,350**	**1,069,570**

NOTE: [A] NUMBERS PROVIDED HERE MAY NOT ADD UP EXACTLY TO TOTAL DUE TO ROUNDING.

SOURCE: CALEEMOD (V.2016.3.1)

TABLE 3.6: PROJECT OPERATIONAL NATURAL GAS AND ELECTRICITY USAGE (MITIGATED SCENARIO)

ENERGY[A]	*NATURAL GAS (KBTU/YEAR)*	*ELECTRICITY (KWH/YEAR)*
Apartments Mid Rise	978,637	1,000,510
Total	**978,637**	**1,000,510**

NOTE: [A] NUMBERS PROVIDED HERE MAY NOT ADD UP EXACTLY TO TOTAL DUE TO ROUNDING.

SOURCE: CALEEMOD (V.2016.3.1)

According to CalEEMod's *Appendix A: Calculation Details for CalEEMod*, the energy use from residential land uses is calculated (within CalEEMod) based on the Residential Appliance Saturation Survey (RASS). Similar to CEUS, this is a comprehensive energy use assessment that includes the end use for various climate zones in California.

As shown in Tables 3.5 and 3.6, proposed project operational energy usage would be reduced with implementation of Mitigation Measure 2.1. Measures that would increase project energy efficiency include disallowing wood-burning fireplaces/hearths and requiring the installation of energy efficient appliances. As a conservative estimate, the proposed project's electricity requirements would be reduced by approximately 6.5% (electricity) and natural gas requirements would be reduced by approximately 6.7% (natural gas) with the incorporation of this mitigation.

ON-ROAD VEHICLES (OPERATION)

The proposed project would generate vehicle trips during its operational phase. Based on the peak hour trip generation rates detailed in the project specific Traffic Impact Analysis, the proposed project is estimated to generate approximately 1,403 gross vehicle trips. In order to calculate operational on-road vehicle energy usage and emissions, default trip lengths generated by CalEEMod were used, which are based on the proposed project location and urbanization level parameters selected within CalEEMod (i.e. "El Dorado-Mounty County" County and "Urban" urbanization level). These values are provided by the individual districts or use a default average for the state, depending on the location of the proposed Project (ENVIRON, 2013). Based on

default factors provided by CalEEMod, the weighted average distance per trip is assumed to be approximately 8.86 miles. Therefore, the proposed project would generate at total of approximately 12,431 average daily vehicle miles travelled (Average Daily VMT). Using fleet mix data provide by CalEEMod (v.2016.3.1), and Year 2020 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2014, a weighted MPG factor was derived (25.0 for gasoline and 14.4 for diesel). Based on these factors, the unmitigated proposed project would use a total of 462 gallons of gasoline and 62 gallons of diesel fuel per day, or 168,673 gallons of gasoline and 22,558 annual gallons of diesel fuel per year.

On-road Vehicles (Construction)

The proposed project would also generate on-road vehicle trips during project construction (from construction workers and vendors). Estimates of vehicle fuel consumed were derived based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2020 gasoline MPG factors provided by EMFAC2014. For the purposes of simplicity, it was assumed that all on-road worker vehicles generated by the construction phase of the project would use gasoline as a fuel source (as opposed to diesel fuel or alternative sources). Additionally, it was assumed that all on-road vendor trucks generated by the construction phase would use diesel fuel. Table 3.7, below, describes gasoline and diesel fuel used by on-road mobile sources during each phase of the construction schedule. As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed project would occur during the building construction phase. See Appendix D of this study for detailed calculations of on-road mobile fuel generated during the project construction period.

Table 3.7: On-road Mobile Fuel Generated by Project Construction Activities – By Phase

Construction Phase	*# of Days*	*Total Daily Worker Trips[A]*	*Total Daily Vendor Trips[A]*	*Gallons of Gasoline Fuel[B]*	*Gallons of Diesel Fuel[B]*
Site Preparation	5	18	-	39	-
Grading	8	15	-	52	-
Building Construction	273	154	23	18,157	6,713
Paving	22	20	-	190	-
Architectural Coating	18	31	-	241	-
Total	**326**	**238**	**23**	**18,679**	**6,713**

Note: [A] Provided by CalEEMod. [B]See Appendix D for Further Detail.

Source: CalEEMod (v.2016.3.1); EMFAC2014.

Off-road Vehicles (Construction)

Off-road construction vehicles would use diesel fuel during the construction phase of the proposed Project. A non-exhaustive list of off-road constructive vehicles that could be used during the construction phase of the proposed Project includes: cranes, forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO_2 emissions expected to be generated by the off-road mobile vehicles during the construction phase of the proposed Project (as provided by the CalEEMod output), and a CO_2 to diesel fuel conversion factor (provided by the U.S. Energy Information Administration), the proposed Project would use a maximum total of approximately

35,968.28 gallons of diesel fuel for off-road construction vehicles. Detailed calculations are provided in Appendix D.

OTHER

Proposed project landscape maintenance activities would generally require the use fossil fuel (i.e. gasoline) energy. For example, lawn mowers require the use of fuel for power. As an approximation, it is estimated that gasoline-powered landscape care maintenance would occur 0.25 hours per week for each residential unit proposed. Given a total of 214 dwelling units, landscape maintenance would occur for 2,782 hours per year. With a conservative estimate of approximately 0.5 gallons of gasoline used per person-hour of landscape maintenance, the proposed project would require the use of approximately 1,391 gallons of gasoline per year to power landscape maintenance equipment for residential uses. The energy used to power landscape maintenance equipment would not differ substantially from the energy required for landscape maintenance for similar types of projects.

The proposed project could also use other sources of energy not identified here. Examples of other energy sources include alternative and/or renewable energy (such as solar PV) and/or on-site stationary sources (such as on-site diesel generators) for electricity generation. However, these sources of energy are not currently planned to be utilized by the proposed project.

CONCLUSION

The proposed project would use energy resources for the operation of project buildings (i.e electricity and natural gas), for on-road vehicle trips (i.e. gasoline and diesel fuel) generated by the proposed project, and from off-road vehicles generated by and associated with the proposed project (i.e. diesel fuel). Each of these activities would require the use of energy resources. The proposed project would be responsible for conserving energy, to the extent feasible, and relies heavily on reducing per capita energy consumption to achieve this goal, including through Statewide and local measures.

The proposed project would be in compliance with all applicable Federal, State, and local regulations regulating energy usage. For example, PG&E is responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the Statewide Renewable Portfolio Standard (RPS) to increase the proportion of renewable energy (e.g. solar and wind) within its energy portfolio. Based on this requirement, PG&E is expected to procure at least 33% of its electricity resources from renewable energy resources by 2020, and 50% by 2030. Other Statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavy-duty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time. Furthermore, as described previously, the incorporation of the mitigation measure described previously in this section would further reduce project energy. The proposed project would also be in compliance with the planning documents described previously within this section.

As a result, the proposed project would not result in any significant adverse impacts related to Project energy requirements, energy use inefficiencies, and/or the energy intensiveness of materials by amount and fuel type for each stage of the Project including construction, operations, maintenance, and/or removal. PG&E, the electricity and natural gas provider to the site, maintains sufficient capacity to serve the proposed project. The proposed project would comply with all existing energy standards, including those established by El Dorado County, and would not result in significant adverse impacts on energy resources. Although improvements to the County's pedestrian, bicycle, and public transit systems would provide further opportunities for alternative transit, the proposed project would be linked closely with existing networks that, in large part, are sufficient for most residents of the proposed project and El Dorado County as a whole. For these reasons, and others (as described previously), the proposed project would not be expected cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the threshold as described by Appendix F of the *CEQA Guidelines*. This is a **less than significant** impact.

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Proposed Project Summer Emissions

El Dorado Hills Apartments Project (Project Scenario)

El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	214.00	Dwelling Unit	4.57	214,000.00	492

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage is 4.565 acres. Population = 492 persons (Source: applicant)

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating - Assumes 50 VOC g/L

Vehicle Trips -

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - Use of low-VOC paint. Natural gas hearth only.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
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tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
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tblLandUse	LotAcreage	5.63	4.57

tblLandUse	Population	612.00	492.00
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tblVehicleEF	LDA	0.11	0.13
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tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
tblVehicleEF	LDT2	418.76	430.28
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94

tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005

tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003

tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08

tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86

tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38

tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86
tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96

tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43

tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74

tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01

tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70

tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96

tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03

tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44
tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09

tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10
tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45

tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004

tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42
tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004

tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30
tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87

tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02

tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30
tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16

tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68

tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003

tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98

tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76

tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6772	48.2608	25.6624	0.0472	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	4,669.9598	4,669.9598	1.1991	0.0000	4,687.7789
2019	74.8388	24.7043	24.3417	0.0466	1.4198	1.3267	2.7465	0.3800	1.2476	1.6276	0.0000	4,582.6024	4,582.6024	0.6932	0.0000	4,599.9325
Maximum	**74.8388**	**48.2608**	**25.6624**	**0.0472**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**4,669.9598**	**4,669.9598**	**1.1991**	**0.0000**	**4,687.7789**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6772	48.2608	25.6624	0.0472	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	4,669.9598	4,669.9598	1.1991	0.0000	4,687.7789
2019	74.8388	24.7043	24.3417	0.0466	1.4198	1.3267	2.7465	0.3800	1.2476	1.6276	0.0000	4,582.6024	4,582.6024	0.6932	0.0000	4,599.9325
Maximum	**74.8388**	**48.2608**	**25.6624**	**0.0472**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**4,669.9598**	**4,669.9598**	**1.1991**	**0.0000**	**4,687.7789**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	334.4579	6.6007	421.9827	0.7334		56.7797	56.7797		56.7797	56.7797	5,943.1504	2,524.2608	8,467.4112	5.5155	0.4675	8,744.6068
Energy	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382
Mobile	7.2564	11.7829	63.5097	0.1076	8.6136	0.1426	8.7562	2.2998	0.1345	2.4344		10,719.5309	10,719.5309	0.7599		10,738.5295
Total	**341.7453**	**18.6485**	**485.6051**	**0.8426**	**8.6136**	**56.9438**	**65.5574**	**2.2998**	**56.9357**	**59.2355**	**5,943.1504**	**13,582.0199**	**19,525.1703**	**6.2820**	**0.4737**	**19,823.3745**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3272	3.3998	19.0735	0.0213		0.3557	0.3557		0.3557	0.3557	0.0000	4,110.3784	4,110.3784	0.1092	0.0748	4,135.3904
Energy	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
Mobile	5.6040	7.1224	37.7006	0.0580	4.5282	0.0795	4.6077	1.2090	0.0749	1.2839		5,772.1873	5,772.1873	0.4332		5,783.0184
Total	**12.9601**	**10.7692**	**56.8793**	**0.0809**	**4.5282**	**0.4552**	**4.9834**	**1.2090**	**0.4506**	**1.6596**	**0.0000**	**10,198.0006**	**10,198.0006**	**0.5485**	**0.0806**	**10,235.7181**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**96.21**	**42.25**	**88.29**	**90.40**	**47.43**	**99.20**	**92.40**	**47.43**	**99.21**	**97.20**	**100.00**	**24.92**	**47.77**	**91.27**	**82.99**	**48.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 433,350; Residential Outdoor: 144,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	154.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1145	0.0620	0.8082	1.6400e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		162.6722	162.6722	6.2300e-003		162.8280
Total	**0.1145**	**0.0620**	**0.8082**	**1.6400e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**162.6722**	**162.6722**	**6.2300e-003**		**162.8280**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1145	0.0620	0.8082	1.6400e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		162.6722	162.6722	6.2300e-003		162.8280
Total	**0.1145**	**0.0620**	**0.8082**	**1.6400e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**162.6722**	**162.6722**	**6.2300e-003**		**162.8280**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0517	0.6735	1.3600e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		135.5602	135.5602	5.1900e-003		135.6900
Total	**0.0954**	**0.0517**	**0.6735**	**1.3600e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**135.5602**	**135.5602**	**5.1900e-003**		**135.6900**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0517	0.6735	1.3600e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		135.5602	135.5602	5.1900e-003		135.6900
Total	**0.0954**	**0.0517**	**0.6735**	**1.3600e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**135.5602**	**135.5602**	**5.1900e-003**		**135.6900**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	3.3728	1.1670	6.3000e-003	0.1547	0.0343	0.1890	0.0445	0.0328	0.0773		657.2736	657.2736	0.0173		657.7068
Worker	0.9793	0.5307	6.9150	0.0140	1.2651	0.0104	1.2755	0.3356	9.5900e-003	0.3452		1,391.7511	1,391.7511	0.0533		1,393.0838
Total	**1.1252**	**3.9035**	**8.0820**	**0.0203**	**1.4198**	**0.0447**	**1.4645**	**0.3800**	**0.0424**	**0.4225**		**2,049.0247**	**2,049.0247**	**0.0706**		**2,050.7906**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1459	3.3728	1.1670	6.3000e-003	0.1547	0.0343	0.1890	0.0445	0.0328	0.0773		657.2736	657.2736	0.0173		657.7068
Worker	0.9793	0.5307	6.9150	0.0140	1.2651	0.0104	1.2755	0.3356	9.5900e-003	0.3452		1,391.7511	1,391.7511	0.0533		1,393.0838
Total	**1.1252**	**3.9035**	**8.0820**	**0.0203**	**1.4198**	**0.0447**	**1.4645**	**0.3800**	**0.0424**	**0.4225**		**2,049.0247**	**2,049.0247**	**0.0706**		**2,050.7906**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1245	3.1587	1.0457	6.2600e-003	0.1547	0.0269	0.1816	0.0445	0.0258	0.0702		653.1763	653.1763	0.0153		653.5583
Worker	0.8973	0.4668	6.1322	0.0135	1.2651	9.9100e-003	1.2750	0.3356	9.1400e-003	0.3447		1,337.8459	1,337.8459	0.0466		1,339.0107
Total	**1.0217**	**3.6255**	**7.1779**	**0.0197**	**1.4198**	**0.0368**	**1.4566**	**0.3800**	**0.0349**	**0.4149**		**1,991.0222**	**1,991.0222**	**0.0619**		**1,992.5690**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1245	3.1587	1.0457	6.2600e-003	0.1547	0.0269	0.1816	0.0445	0.0258	0.0702		653.1763	653.1763	0.0153		653.5583
Worker	0.8973	0.4668	6.1322	0.0135	1.2651	9.9100e-003	1.2750	0.3356	9.1400e-003	0.3447		1,337.8459	1,337.8459	0.0466		1,339.0107
Total	**1.0217**	**3.6255**	**7.1779**	**0.0197**	**1.4198**	**0.0368**	**1.4566**	**0.3800**	**0.0349**	**0.4149**		**1,991.0222**	**1,991.0222**	**0.0619**		**1,992.5690**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1165	0.0606	0.7964	1.7500e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		173.7462	173.7462	6.0500e-003		173.8975
Total	**0.1165**	**0.0606**	**0.7964**	**1.7500e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**173.7462**	**173.7462**	**6.0500e-003**		**173.8975**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1165	0.0606	0.7964	1.7500e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		173.7462	173.7462	6.0500e-003		173.8975
Total	**0.1165**	**0.0606**	**0.7964**	**1.7500e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**173.7462**	**173.7462**	**6.0500e-003**		**173.8975**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	74.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**74.6582**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1806	0.0940	1.2344	2.7100e-003	0.2547	2.0000e-003	0.2567	0.0676	1.8400e-003	0.0694		269.3066	269.3066	9.3800e-003		269.5411
Total	**0.1806**	**0.0940**	**1.2344**	**2.7100e-003**	**0.2547**	**2.0000e-003**	**0.2567**	**0.0676**	**1.8400e-003**	**0.0694**		**269.3066**	**269.3066**	**9.3800e-003**		**269.5411**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	74.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**74.6582**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1806	0.0940	1.2344	2.7100e-003	0.2547	2.0000e-003	0.2567	0.0676	1.8400e-003	0.0694		269.3066	269.3066	9.3800e-003		269.5411
Total	**0.1806**	**0.0940**	**1.2344**	**2.7100e-003**	**0.2547**	**2.0000e-003**	**0.2567**	**0.0676**	**1.8400e-003**	**0.0694**		**269.3066**	**269.3066**	**9.3800e-003**		**269.5411**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6040	7.1224	37.7006	0.0580	4.5282	0.0795	4.6077	1.2090	0.0749	1.2839		5,772.1873	5,772.1873	0.4332		5,783.0184
Unmitigated	7.2564	11.7829	63.5097	0.1076	8.6136	0.1426	8.7562	2.2998	0.1345	2.4344		10,719.5309	10,719.5309	0.7599		10,738.5295

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,423.10	1,367.46	1254.04	3,984,579	2,094,734
Total	1,423.10	1,367.46	1,254.04	3,984,579	2,094,734

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
NaturalGas Unmitigated	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2874.94	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382
Total		**0.0310**	**0.2650**	**0.1127**	**1.6900e-003**		**0.0214**	**0.0214**		**0.0214**	**0.0214**		**338.2283**	**338.2283**	**6.4800e-003**	**6.2000e-003**	**340.2382**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.6812	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
Total		**0.0289**	**0.2471**	**0.1051**	**1.5800e-003**		**0.0200**	**0.0200**		**0.0200**	**0.0200**		**315.4348**	**315.4348**	**6.0500e-003**	**5.7800e-003**	**317.3093**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3272	3.3998	19.0735	0.0213		0.3557	0.3557		0.3557	0.3557	0.0000	4,110.3784	4,110.3784	0.1092	0.0748	4,135.3904
Unmitigated	334.4579	6.6007	421.9827	0.7334		56.7797	56.7797		56.7797	56.7797	5,943.1504	2,524.2608	8,467.4112	5.5155	0.4675	8,744.6068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	327.5045	6.3958	404.2688	0.7324		56.6823	56.6823		56.6823	56.6823	5,943.1504	2,492.4706	8,435.6210	5.4845	0.4675	8,712.0417
Landscaping	0.5394	0.2049	17.7140	9.3000e-004		0.0974	0.0974		0.0974	0.0974		31.7902	31.7902	0.0310		32.5652
Total	**334.4579**	**6.6007**	**421.9827**	**0.7334**		**56.7797**	**56.7797**		**56.7797**	**56.7797**	**5,943.1504**	**2,524.2608**	**8,467.4112**	**5.5155**	**0.4675**	**8,744.6068**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3739	3.1949	1.3595	0.0204		0.2583	0.2583		0.2583	0.2583	0.0000	4,078.5882	4,078.5882	0.0782	0.0748	4,102.8253
Landscaping	0.5394	0.2049	17.7140	9.3000e-004		0.0974	0.0974		0.0974	0.0974		31.7902	31.7902	0.0310		32.5652
Total	**7.3272**	**3.3998**	**19.0735**	**0.0213**		**0.3557**	**0.3557**		**0.3557**	**0.3557**	**0.0000**	**4,110.3784**	**4,110.3784**	**0.1092**	**0.0748**	**4,135.3904**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Proposed Project Winter Emissions

El Dorado Hills Apartments Project (Project Scenario)

El Dorado-Mountain County County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	214.00	Dwelling Unit	4.57	214,000.00	492

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

El Dorado Hills Apartments Project (Project Scenario) - El Dorado-Mountain County County, Winter

Project Characteristics -

Land Use - Lot acreage is 4.565 acres. Population = 492 persons (Source: applicant)

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating - Assumes 50 VOC g/L

Vehicle Trips -

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - Use of low-VOC paint. Natural gas hearth only.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	230.00	273.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LotAcreage	5.63	4.57

El Dorado Hills Apartments Project (Project Scenario) - El Dorado-Mountain County County, Winter

tblLandUse	Population	612.00	492.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleEF	HHD	0.12	0.15
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tblVehicleEF	HHD	1.57	1.75
tblVehicleEF	HHD	10.68	11.48
tblVehicleEF	HHD	3,067.84	3,002.58
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	18.41	19.72
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
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tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
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tblVehicleEF	HHD	0.02	0.02

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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5800e-004	4.7600e-004
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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.57	0.70
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tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.36	0.41
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	0.01	0.02
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tblVehicleEF	HHD	1,775.65	1,795.84
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tblVehicleEF	HHD	0.03	0.05
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tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	1.1800e-004	1.2400e-004
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tblVehicleEF	HHD	0.54	0.66

tblVehicleEF	HHD	5.7000e-005	5.9000e-005
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
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tblVehicleEF	HHD	1.1800e-004	1.2400e-004
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tblVehicleEF	HHD	0.62	0.76
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
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tblVehicleEF	LDA	0.10	0.11
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tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	5.4430e-003	6.1390e-003
tblVehicleEF	LDA	6.2200e-003	7.3130e-003
tblVehicleEF	LDA	0.77	0.84
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tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	1.9360e-003	1.9510e-003
tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	2.9540e-003	3.0710e-003
tblVehicleEF	LDA	6.2800e-004	6.5200e-004
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	4.6330e-003	5.2410e-003
tblVehicleEF	LDA	9.0330e-003	0.01
tblVehicleEF	LDA	0.62	0.68
tblVehicleEF	LDA	1.87	2.13
tblVehicleEF	LDA	264.70	275.07
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.9360e-003	1.9510e-003
tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
tblVehicleEF	LDT2	418.76	430.28
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94

tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005

tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003

tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08

tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86

tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38

tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86
tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96

tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43

tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74

tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01

tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70

tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96

tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03

tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44
tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09

tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10
tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45

tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004

tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42
tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004

tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30
tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87

tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02

tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30
tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16

tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68

tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003

tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98

tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76

tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6794	48.2755	25.4459	0.0458	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	4,525.0838	4,525.0838	1.1987	0.0000	4,542.8622
2019	74.8422	24.8931	24.1139	0.0452	1.4198	1.3272	2.7470	0.3800	1.2481	1.6281	0.0000	4,442.7230	4,442.7230	0.6916	0.0000	4,460.0124
Maximum	**74.8422**	**48.2755**	**25.4459**	**0.0458**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**4,525.0838**	**4,525.0838**	**1.1987**	**0.0000**	**4,542.8622**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6794	48.2755	25.4459	0.0458	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	4,525.0838	4,525.0838	1.1987	0.0000	4,542.8622
2019	74.8422	24.8931	24.1139	0.0452	1.4198	1.3272	2.7470	0.3800	1.2481	1.6281	0.0000	4,442.7230	4,442.7230	0.6916	0.0000	4,460.0124
Maximum	**74.8422**	**48.2755**	**25.4459**	**0.0458**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**4,525.0838**	**4,525.0838**	**1.1987**	**0.0000**	**4,542.8622**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	334.4579	6.6007	421.9827	0.7334		56.7797	56.7797		56.7797	56.7797	5,943.1504	2,524.2608	8,467.4112	5.5155	0.4675	8,744.6068
Energy	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382
Mobile	6.3825	13.1982	66.1926	0.0993	8.6136	0.1430	8.7566	2.2998	0.1349	2.4347		9,884.1545	9,884.1545	0.7985		9,904.1170
Total	**340.8714**	**20.0638**	**488.2880**	**0.8343**	**8.6136**	**56.9441**	**65.5577**	**2.2998**	**56.9360**	**59.2358**	**5,943.1504**	**12,746.6436**	**18,689.7939**	**6.3205**	**0.4737**	**18,988.9620**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3272	3.3998	19.0735	0.0213		0.3557	0.3557		0.3557	0.3557	0.0000	4,110.3784	4,110.3784	0.1092	0.0748	4,135.3904
Energy	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
Mobile	4.6057	7.9354	41.0945	0.0536	4.5282	0.0798	4.6081	1.2090	0.0752	1.2843		5,329.8546	5,329.8546	0.4672		5,341.5334
Total	**11.9618**	**11.5823**	**60.2732**	**0.0765**	**4.5282**	**0.4555**	**4.9838**	**1.2090**	**0.4509**	**1.6600**	**0.0000**	**9,755.6678**	**9,755.6678**	**0.5824**	**0.0806**	**9,794.2331**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**96.49**	**42.27**	**87.66**	**90.83**	**47.43**	**99.20**	**92.40**	**47.43**	**99.21**	**97.20**	**100.00**	**23.46**	**47.80**	**90.79**	**82.99**	**48.42**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 433,350; Residential Outdoor: 144,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	154.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1166	0.0767	0.7655	1.4800e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		147.0451	147.0451	5.8800e-003		147.1920
Total	**0.1166**	**0.0767**	**0.7655**	**1.4800e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**147.0451**	**147.0451**	**5.8800e-003**		**147.1920**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1166	0.0767	0.7655	1.4800e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		147.0451	147.0451	5.8800e-003		147.1920
Total	**0.1166**	**0.0767**	**0.7655**	**1.4800e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**147.0451**	**147.0451**	**5.8800e-003**		**147.1920**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0972	0.0639	0.6379	1.2300e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		122.5375	122.5375	4.9000e-003		122.6600
Total	**0.0972**	**0.0639**	**0.6379**	**1.2300e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**122.5375**	**122.5375**	**4.9000e-003**		**122.6600**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0972	0.0639	0.6379	1.2300e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		122.5375	122.5375	4.9000e-003		122.6600
Total	**0.0972**	**0.0639**	**0.6379**	**1.2300e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**122.5375**	**122.5375**	**4.9000e-003**		**122.6600**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1525	3.4617	1.3160	6.1900e-003	0.1547	0.0349	0.1896	0.0445	0.0334	0.0779		646.0966	646.0966	0.0187		646.5647
Worker	0.9979	0.6565	6.5495	0.0127	1.2651	0.0104	1.2755	0.3356	9.5900e-003	0.3452		1,258.0521	1,258.0521	0.0503		1,259.3092
Total	**1.1504**	**4.1181**	**7.8655**	**0.0189**	**1.4198**	**0.0453**	**1.4651**	**0.3800**	**0.0430**	**0.4230**		**1,904.1487**	**1,904.1487**	**0.0690**		**1,905.8739**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1525	3.4617	1.3160	6.1900e-003	0.1547	0.0349	0.1896	0.0445	0.0334	0.0779		646.0966	646.0966	0.0187		646.5647
Worker	0.9979	0.6565	6.5495	0.0127	1.2651	0.0104	1.2755	0.3356	9.5900e-003	0.3452		1,258.0521	1,258.0521	0.0503		1,259.3092
Total	**1.1504**	**4.1181**	**7.8655**	**0.0189**	**1.4198**	**0.0453**	**1.4651**	**0.3800**	**0.0430**	**0.4230**		**1,904.1487**	**1,904.1487**	**0.0690**		**1,905.8739**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1302	3.2370	1.1798	6.1500e-003	0.1547	0.0274	0.1822	0.0445	0.0262	0.0707		641.9399	641.9399	0.0165		642.3532
Worker	0.9142	0.5773	5.7703	0.0122	1.2651	9.9100e-003	1.2750	0.3356	9.1400e-003	0.3447		1,209.2029	1,209.2029	0.0437		1,210.2957
Total	**1.0444**	**3.8143**	**6.9501**	**0.0183**	**1.4198**	**0.0373**	**1.4571**	**0.3800**	**0.0354**	**0.4154**		**1,851.1429**	**1,851.1429**	**0.0602**		**1,852.6489**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1302	3.2370	1.1798	6.1500e-003	0.1547	0.0274	0.1822	0.0445	0.0262	0.0707		641.9399	641.9399	0.0165		642.3532
Worker	0.9142	0.5773	5.7703	0.0122	1.2651	9.9100e-003	1.2750	0.3356	9.1400e-003	0.3447		1,209.2029	1,209.2029	0.0437		1,210.2957
Total	**1.0444**	**3.8143**	**6.9501**	**0.0183**	**1.4198**	**0.0373**	**1.4571**	**0.3800**	**0.0354**	**0.4154**		**1,851.1429**	**1,851.1429**	**0.0602**		**1,852.6489**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1187	0.0750	0.7494	1.5800e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		157.0393	157.0393	5.6800e-003		157.1813
Total	**0.1187**	**0.0750**	**0.7494**	**1.5800e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**157.0393**	**157.0393**	**5.6800e-003**		**157.1813**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1187	0.0750	0.7494	1.5800e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		157.0393	157.0393	5.6800e-003		157.1813
Total	**0.1187**	**0.0750**	**0.7494**	**1.5800e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**157.0393**	**157.0393**	**5.6800e-003**		**157.1813**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	74.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**74.6582**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1840	0.1162	1.1615	2.4500e-003	0.2547	2.0000e-003	0.2567	0.0676	1.8400e-003	0.0694		243.4110	243.4110	8.8000e-003		243.6310
Total	**0.1840**	**0.1162**	**1.1615**	**2.4500e-003**	**0.2547**	**2.0000e-003**	**0.2567**	**0.0676**	**1.8400e-003**	**0.0694**		**243.4110**	**243.4110**	**8.8000e-003**		**243.6310**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	74.3918					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**74.6582**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1840	0.1162	1.1615	2.4500e-003	0.2547	2.0000e-003	0.2567	0.0676	1.8400e-003	0.0694		243.4110	243.4110	8.8000e-003		243.6310
Total	**0.1840**	**0.1162**	**1.1615**	**2.4500e-003**	**0.2547**	**2.0000e-003**	**0.2567**	**0.0676**	**1.8400e-003**	**0.0694**		**243.4110**	**243.4110**	**8.8000e-003**		**243.6310**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6057	7.9354	41.0945	0.0536	4.5282	0.0798	4.6081	1.2090	0.0752	1.2843		5,329.8546	5,329.8546	0.4672		5,341.5334
Unmitigated	6.3825	13.1982	66.1926	0.0993	8.6136	0.1430	8.7566	2.2998	0.1349	2.4347		9,884.1545	9,884.1545	0.7985		9,904.1170

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,423.10	1,367.46	1254.04	3,984,579	2,094,734
Total	1,423.10	1,367.46	1,254.04	3,984,579	2,094,734

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
NaturalGas Unmitigated	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2874.94	0.0310	0.2650	0.1127	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.2283	338.2283	6.4800e-003	6.2000e-003	340.2382
Total		**0.0310**	**0.2650**	**0.1127**	**1.6900e-003**		**0.0214**	**0.0214**		**0.0214**	**0.0214**		**338.2283**	**338.2283**	**6.4800e-003**	**6.2000e-003**	**340.2382**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.6812	0.0289	0.2471	0.1051	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.4348	315.4348	6.0500e-003	5.7800e-003	317.3093
Total		**0.0289**	**0.2471**	**0.1051**	**1.5800e-003**		**0.0200**	**0.0200**		**0.0200**	**0.0200**		**315.4348**	**315.4348**	**6.0500e-003**	**5.7800e-003**	**317.3093**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3272	3.3998	19.0735	0.0213		0.3557	0.3557		0.3557	0.3557	0.0000	4,110.3784	4,110.3784	0.1092	0.0748	4,135.3904
Unmitigated	334.4579	6.6007	421.9827	0.7334		56.7797	56.7797		56.7797	56.7797	5,943.1504	2,524.2608	8,467.4112	5.5155	0.4675	8,744.6068

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	327.5045	6.3958	404.2688	0.7324		56.6823	56.6823		56.6823	56.6823	5,943.1504	2,492.4706	8,435.6210	5.4845	0.4675	8,712.0417
Landscaping	0.5394	0.2049	17.7140	9.3000e-004		0.0974	0.0974		0.0974	0.0974		31.7902	31.7902	0.0310		32.5652
Total	**334.4579**	**6.6007**	**421.9827**	**0.7334**		**56.7797**	**56.7797**		**56.7797**	**56.7797**	**5,943.1504**	**2,524.2608**	**8,467.4112**	**5.5155**	**0.4675**	**8,744.6068**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8343					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.5796					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3739	3.1949	1.3595	0.0204		0.2583	0.2583		0.2583	0.2583	0.0000	4,078.5882	4,078.5882	0.0782	0.0748	4,102.8253
Landscaping	0.5394	0.2049	17.7140	9.3000e-004		0.0974	0.0974		0.0974	0.0974		31.7902	31.7902	0.0310		32.5652
Total	**7.3272**	**3.3998**	**19.0735**	**0.0213**		**0.3557**	**0.3557**		**0.3557**	**0.3557**	**0.0000**	**4,110.3784**	**4,110.3784**	**0.1092**	**0.0748**	**4,135.3904**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

17-0846 U 210 of 514

Proposed Project Annual Emissions

El Dorado Hills Apartments Project (Project Scenario)

El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	214.00	Dwelling Unit	4.57	214,000.00	492

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

El Dorado Hills Apartments Project (Project Scenario) - El Dorado-Mountain County County, Annual

Project Characteristics -

Land Use - Lot acreage is 4.565 acres. Population = 492 persons (Source: applicant)

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating - Assumes 50 VOC g/L

Vehicle Trips -

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - Use of low-VOC paint. Natural gas hearth only.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	230.00	273.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LotAcreage	5.63	4.57

tblLandUse	Population	612.00	492.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleEF	HHD	0.12	0.15
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.14
tblVehicleEF	HHD	1.88	2.26
tblVehicleEF	HHD	1.57	1.75
tblVehicleEF	HHD	10.68	11.48
tblVehicleEF	HHD	3,067.84	3,002.58
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	18.41	19.72
tblVehicleEF	HHD	5.91	6.62
tblVehicleEF	HHD	17.69	17.70
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02

tblVehicleEF	HHD	0.50	0.62
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tblVehicleEF	HHD	0.33	0.38
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5800e-004	4.7600e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.57	0.70
tblVehicleEF	HHD	1.7300e-004	1.8900e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.36	0.41
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.11	0.13
tblVehicleEF	HHD	1.37	1.65
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tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
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tblVehicleEF	HHD	5.65	6.33

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.3700e-004	4.5400e-004
tblVehicleEF	HHD	1.0960e-003	1.2360e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66
tblVehicleEF	HHD	4.3500e-004	4.8800e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0020e-003	3.3920e-003

tblVehicleEF	HHD	0.33	0.38
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tblVehicleEF	HHD	2,818.35	2,759.42
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66

tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.15	0.19
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7200e-004	4.9200e-004
tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.76
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.38	0.44
tblVehicleEF	LDA	4.8070e-003	5.4280e-003
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tblVehicleEF	LDA	0.64	0.70
tblVehicleEF	LDA	1.60	1.82
tblVehicleEF	LDA	270.70	281.32
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	1.9360e-003	1.9510e-003
tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	2.7110e-003	2.8180e-003
tblVehicleEF	LDA	6.3500e-004	6.6000e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	5.4430e-003	6.1390e-003
tblVehicleEF	LDA	6.2200e-003	7.3130e-003
tblVehicleEF	LDA	0.77	0.84
tblVehicleEF	LDA	1.22	1.39
tblVehicleEF	LDA	294.78	306.45
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	1.9360e-003	1.9510e-003
tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	2.9540e-003	3.0710e-003
tblVehicleEF	LDA	6.2800e-004	6.5200e-004
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	4.6330e-003	5.2410e-003
tblVehicleEF	LDA	9.0330e-003	0.01
tblVehicleEF	LDA	0.62	0.68
tblVehicleEF	LDA	1.87	2.13
tblVehicleEF	LDA	264.70	275.07
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.9360e-003	1.9510e-003
tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003

tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003
tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003

tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
tblVehicleEF	LDT2	418.76	430.28
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003
tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94

tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005

tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003

tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08

tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86

tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38

tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86
tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96

tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20
tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43

tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74

tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01

tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40
tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70

tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58
tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96

tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03

tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44
tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09

tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10
tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45

tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004

tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42
tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004

tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30
tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87

tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02

tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30
tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16

tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68

tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003

tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98

tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76

tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2637	2.0146	1.7558	3.2000e-003	0.1600	0.1123	0.2723	0.0621	0.1053	0.1674	0.0000	287.0455	287.0455	0.0477	0.0000	288.2375
2019	0.9271	1.9477	1.8955	3.5500e-003	0.1020	0.1046	0.2066	0.0274	0.0983	0.1257	0.0000	316.6120	316.6120	0.0511	0.0000	317.8899
Maximum	**0.9271**	**2.0146**	**1.8955**	**3.5500e-003**	**0.1600**	**0.1123**	**0.2723**	**0.0621**	**0.1053**	**0.1674**	**0.0000**	**316.6120**	**316.6120**	**0.0511**	**0.0000**	**317.8899**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2637	2.0146	1.7558	3.2000e-003	0.1600	0.1123	0.2723	0.0621	0.1053	0.1674	0.0000	287.0453	287.0453	0.0477	0.0000	288.2373
2019	0.9271	1.9477	1.8955	3.5500e-003	0.1020	0.1046	0.2066	0.0274	0.0983	0.1257	0.0000	316.6117	316.6117	0.0511	0.0000	317.8896
Maximum	**0.9271**	**2.0146**	**1.8955**	**3.5500e-003**	**0.1600**	**0.1123**	**0.2723**	**0.0621**	**0.1053**	**0.1674**	**0.0000**	**316.6117**	**316.6117**	**0.0511**	**0.0000**	**317.8896**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-15-2018	9-14-2018	1.0871	1.0871
2	9-15-2018	12-14-2018	1.0171	1.0171
3	12-15-2018	3-14-2019	0.9281	0.9281
4	3-15-2019	6-14-2019	0.9241	0.9241
5	6-15-2019	9-14-2019	1.1715	1.1715
		Highest	1.1715	1.1715

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	14.6468	0.2807	18.1693	0.0301		2.3327	2.3327		2.3327	2.3327	221.0530	95.3020	316.3549	0.2065	0.0174	326.6995
Energy	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	367.1489	367.1489	0.0151	3.9400e-003	368.7008
Mobile	1.1337	2.2666	11.2158	0.0179	1.4692	0.0254	1.4945	0.3936	0.0239	0.4176	0.0000	1,620.5325	1,620.5325	0.1248	0.0000	1,623.6522
Waste						0.0000	0.0000		0.0000	0.0000	19.9824	0.0000	19.9824	1.1809	0.0000	49.5056
Water						0.0000	0.0000		0.0000	0.0000	4.4235	30.8979	35.3214	0.4557	0.0110	49.9976
Total	**15.7861**	**2.5956**	**29.4056**	**0.0484**	**1.4692**	**2.3620**	**3.8312**	**0.3936**	**2.3606**	**2.7542**	**245.4588**	**2,113.8813**	**2,359.3401**	**1.9831**	**0.0324**	**2,418.5558**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2344	0.1494	1.6500	9.2000e-004		0.0194	0.0194		0.0194	0.0194	0.0000	154.2969	154.2969	5.4400e-003	2.7800e-003	155.2617
Energy	5.2800e-003	0.0451	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	343.2830	343.2830	0.0142	3.6800e-003	344.7338
Mobile	0.8292	1.3636	6.8645	9.6800e-003	0.7724	0.0142	0.7865	0.2069	0.0133	0.2203	0.0000	873.7700	873.7700	0.0723	0.0000	875.5785
Waste						0.0000	0.0000		0.0000	0.0000	19.9824	0.0000	19.9824	1.1809	0.0000	49.5056
Water						0.0000	0.0000		0.0000	0.0000	3.5388	25.9624	29.5012	0.3646	8.8300e-003	41.2470
Total	**2.0689**	**1.5581**	**8.5337**	**0.0109**	**0.7724**	**0.0372**	**0.8095**	**0.2069**	**0.0363**	**0.2433**	**23.5212**	**1,397.3123**	**1,420.8335**	**1.6375**	**0.0153**	**1,466.3266**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**86.89**	**39.97**	**70.98**	**77.48**	**47.43**	**98.43**	**78.87**	**47.43**	**98.46**	**91.17**	**90.42**	**33.90**	**39.78**	**17.43**	**52.74**	**39.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 433,350; Residential Outdoor: 144,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

El Dorado Hills Apartments Project (Project Scenario) - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	154.00	23.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0452**	**6.4400e-003**	**0.0516**	**0.0248**	**5.9300e-003**	**0.0308**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	1.8800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3406	0.3406	1.0000e-005	0.0000	0.3409
Total	**2.6000e-004**	**1.8000e-004**	**1.8800e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3406**	**0.3406**	**1.0000e-005**	**0.0000**	**0.3409**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0452**	**6.4400e-003**	**0.0516**	**0.0248**	**5.9300e-003**	**0.0308**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	1.8800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3406	0.3406	1.0000e-005	0.0000	0.3409
Total	**2.6000e-004**	**1.8000e-004**	**1.8800e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3406**	**0.3406**	**1.0000e-005**	**0.0000**	**0.3409**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8428	10.8428	3.3800e-003	0.0000	10.9271
Total	**0.0111**	**0.1227**	**0.0663**	**1.2000e-004**	**0.0262**	**6.2100e-003**	**0.0324**	**0.0135**	**5.7100e-003**	**0.0192**	**0.0000**	**10.8428**	**10.8428**	**3.3800e-003**	**0.0000**	**10.9271**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5000e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4541	0.4541	2.0000e-005	0.0000	0.4545
Total	**3.5000e-004**	**2.4000e-004**	**2.5000e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4541**	**0.4541**	**2.0000e-005**	**0.0000**	**0.4545**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8427	10.8427	3.3800e-003	0.0000	10.9271
Total	**0.0111**	**0.1227**	**0.0663**	**1.2000e-004**	**0.0262**	**6.2100e-003**	**0.0324**	**0.0135**	**5.7100e-003**	**0.0192**	**0.0000**	**10.8427**	**10.8427**	**3.3800e-003**	**0.0000**	**10.9271**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5000e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4541	0.4541	2.0000e-005	0.0000	0.4545
Total	**3.5000e-004**	**2.4000e-004**	**2.5000e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4541**	**0.4541**	**2.0000e-005**	**0.0000**	**0.4545**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1728	1.5087	1.1339	1.7400e-003		0.0967	0.0967		0.0909	0.0909	0.0000	153.3599	153.3599	0.0376	0.0000	154.2992
Total	**0.1728**	**1.5087**	**1.1339**	**1.7400e-003**		**0.0967**	**0.0967**		**0.0909**	**0.0909**	**0.0000**	**153.3599**	**153.3599**	**0.0376**	**0.0000**	**154.2992**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5700e-003	0.2232	0.0804	4.0000e-004	9.6400e-003	2.2300e-003	0.0119	2.7800e-003	2.1300e-003	4.9200e-003	0.0000	38.1845	38.1845	1.0600e-003	0.0000	38.2108
Worker	0.0582	0.0391	0.4146	8.3000e-004	0.0782	6.7000e-004	0.0789	0.0208	6.2000e-004	0.0214	0.0000	75.1738	75.1738	2.9400e-003	0.0000	75.2473
Total	**0.0677**	**0.2623**	**0.4950**	**1.2300e-003**	**0.0878**	**2.9000e-003**	**0.0907**	**0.0236**	**2.7500e-003**	**0.0264**	**0.0000**	**113.3582**	**113.3582**	**4.0000e-003**	**0.0000**	**113.4581**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1728	1.5087	1.1339	1.7400e-003		0.0967	0.0967		0.0909	0.0909	0.0000	153.3597	153.3597	0.0376	0.0000	154.2990
Total	**0.1728**	**1.5087**	**1.1339**	**1.7400e-003**		**0.0967**	**0.0967**		**0.0909**	**0.0909**	**0.0000**	**153.3597**	**153.3597**	**0.0376**	**0.0000**	**154.2990**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5700e-003	0.2232	0.0804	4.0000e-004	9.6400e-003	2.2300e-003	0.0119	2.7800e-003	2.1300e-003	4.9200e-003	0.0000	38.1845	38.1845	1.0600e-003	0.0000	38.2108
Worker	0.0582	0.0391	0.4146	8.3000e-004	0.0782	6.7000e-004	0.0789	0.0208	6.2000e-004	0.0214	0.0000	75.1738	75.1738	2.9400e-003	0.0000	75.2473
Total	**0.0677**	**0.2623**	**0.4950**	**1.2300e-003**	**0.0878**	**2.9000e-003**	**0.0907**	**0.0236**	**2.7500e-003**	**0.0264**	**0.0000**	**113.3582**	**113.3582**	**4.0000e-003**	**0.0000**	**113.4581**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1700	1.5177	1.2358	1.9400e-003		0.0929	0.0929		0.0873	0.0873	0.0000	169.2750	169.2750	0.0412	0.0000	170.3060
Total	**0.1700**	**1.5177**	**1.2358**	**1.9400e-003**		**0.0929**	**0.0929**		**0.0873**	**0.0873**	**0.0000**	**169.2750**	**169.2750**	**0.0412**	**0.0000**	**170.3060**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1200e-003	0.2331	0.0804	4.5000e-004	0.0108	1.9500e-003	0.0127	3.1100e-003	1.8700e-003	4.9800e-003	0.0000	42.3553	42.3553	1.0400e-003	0.0000	42.3812
Worker	0.0594	0.0384	0.4089	8.9000e-004	0.0873	7.1000e-004	0.0880	0.0232	6.6000e-004	0.0239	0.0000	80.6593	80.6593	2.8600e-003	0.0000	80.7307
Total	**0.0685**	**0.2715**	**0.4893**	**1.3400e-003**	**0.0981**	**2.6600e-003**	**0.1007**	**0.0263**	**2.5300e-003**	**0.0289**	**0.0000**	**123.0145**	**123.0145**	**3.9000e-003**	**0.0000**	**123.1120**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1700	1.5177	1.2358	1.9400e-003		0.0929	0.0929		0.0873	0.0873	0.0000	169.2748	169.2748	0.0412	0.0000	170.3057
Total	**0.1700**	**1.5177**	**1.2358**	**1.9400e-003**		**0.0929**	**0.0929**		**0.0873**	**0.0873**	**0.0000**	**169.2748**	**169.2748**	**0.0412**	**0.0000**	**170.3057**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.1200e-003	0.2331	0.0804	4.5000e-004	0.0108	1.9500e-003	0.0127	3.1100e-003	1.8700e-003	4.9800e-003	0.0000	42.3553	42.3553	1.0400e-003	0.0000	42.3812
Worker	0.0594	0.0384	0.4089	8.9000e-004	0.0873	7.1000e-004	0.0880	0.0232	6.6000e-004	0.0239	0.0000	80.6593	80.6593	2.8600e-003	0.0000	80.7307
Total	**0.0685**	**0.2715**	**0.4893**	**1.3400e-003**	**0.0981**	**2.6600e-003**	**0.1007**	**0.0263**	**2.5300e-003**	**0.0289**	**0.0000**	**123.0145**	**123.0145**	**3.9000e-003**	**0.0000**	**123.1120**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0140	0.1404	0.1354	2.1000e-004		7.9200e-003	7.9200e-003		7.3000e-003	7.3000e-003	0.0000	18.3945	18.3945	5.6600e-003	0.0000	18.5360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1404**	**0.1354**	**2.1000e-004**		**7.9200e-003**	**7.9200e-003**		**7.3000e-003**	**7.3000e-003**	**0.0000**	**18.3945**	**18.3945**	**5.6600e-003**	**0.0000**	**18.5360**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	7.6000e-004	8.1100e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6004	1.6004	6.0000e-005	0.0000	1.6018
Total	**1.1800e-003**	**7.6000e-004**	**8.1100e-003**	**2.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.6004**	**1.6004**	**6.0000e-005**	**0.0000**	**1.6018**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0140	0.1404	0.1354	2.1000e-004		7.9200e-003	7.9200e-003		7.3000e-003	7.3000e-003	0.0000	18.3945	18.3945	5.6600e-003	0.0000	18.5360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1404**	**0.1354**	**2.1000e-004**		**7.9200e-003**	**7.9200e-003**		**7.3000e-003**	**7.3000e-003**	**0.0000**	**18.3945**	**18.3945**	**5.6600e-003**	**0.0000**	**18.5360**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	7.6000e-004	8.1100e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6004	1.6004	6.0000e-005	0.0000	1.6018
Total	**1.1800e-003**	**7.6000e-004**	**8.1100e-003**	**2.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.6004**	**1.6004**	**6.0000e-005**	**0.0000**	**1.6018**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.6719**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.7000e-004	0.0103	2.0000e-005	2.2000e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.0296	2.0296	7.0000e-005	0.0000	2.0314
Total	**1.4900e-003**	**9.7000e-004**	**0.0103**	**2.0000e-005**	**2.2000e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**2.0296**	**2.0296**	**7.0000e-005**	**0.0000**	**2.0314**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6695					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.6719**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.7000e-004	0.0103	2.0000e-005	2.2000e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.0296	2.0296	7.0000e-005	0.0000	2.0314
Total	**1.4900e-003**	**9.7000e-004**	**0.0103**	**2.0000e-005**	**2.2000e-003**	**2.0000e-005**	**2.2100e-003**	**5.8000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**2.0296**	**2.0296**	**7.0000e-005**	**0.0000**	**2.0314**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8292	1.3636	6.8645	9.6800e-003	0.7724	0.0142	0.7865	0.2069	0.0133	0.2203	0.0000	873.7700	873.7700	0.0723	0.0000	875.5785
Unmitigated	1.1337	2.2666	11.2158	0.0179	1.4692	0.0254	1.4945	0.3936	0.0239	0.4176	0.0000	1,620.5325	1,620.5325	0.1248	0.0000	1,623.6522

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,423.10	1,367.46	1254.04	3,984,579	2,094,734
Total	1,423.10	1,367.46	1,254.04	3,984,579	2,094,734

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	291.0592	291.0592	0.0132	2.7200e-003	292.1997
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	311.1514	311.1514	0.0141	2.9100e-003	312.3706
NaturalGas Mitigated	5.2800e-003	0.0451	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.2238	52.2238	1.0000e-003	9.6000e-004	52.5341
NaturalGas Unmitigated	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9975	55.9975	1.0700e-003	1.0300e-003	56.3303

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.04935e+006	5.6600e-003	0.0484	0.0206	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	55.9975	55.9975	1.0700e-003	1.0300e-003	56.3303
Total		**5.6600e-003**	**0.0484**	**0.0206**	**3.1000e-004**		**3.9100e-003**	**3.9100e-003**		**3.9100e-003**	**3.9100e-003**	**0.0000**	**55.9975**	**55.9975**	**1.0700e-003**	**1.0300e-003**	**56.3303**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	978637	5.2800e-003	0.0451	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.2238	52.2238	1.0000e-003	9.6000e-004	52.5341
Total		**5.2800e-003**	**0.0451**	**0.0192**	**2.9000e-004**		**3.6500e-003**	**3.6500e-003**		**3.6500e-003**	**3.6500e-003**	**0.0000**	**52.2238**	**52.2238**	**1.0000e-003**	**9.6000e-004**	**52.5341**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.06957e+006	311.1514	0.0141	2.9100e-003	312.3706
Total		**311.1514**	**0.0141**	**2.9100e-003**	**312.3706**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.00051e+006	291.0592	0.0132	2.7200e-003	292.1997
Total		**291.0592**	**0.0132**	**2.7200e-003**	**292.1997**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2344	0.1494	1.6500	9.2000e-004		0.0194	0.0194		0.0194	0.0194	0.0000	154.2969	154.2969	5.4400e-003	2.7800e-003	155.2617
Unmitigated	14.6468	0.2807	18.1693	0.0301		2.3327	2.3327		2.3327	2.3327	221.0530	95.3020	316.3549	0.2065	0.0174	326.6995

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	13.4277	0.2622	16.5750	0.0300		2.3240	2.3240		2.3240	2.3240	221.0530	92.7064	313.7593	0.2040	0.0174	324.0407
Landscaping	0.0486	0.0184	1.5943	8.0000e-005		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	2.5956	2.5956	2.5300e-003	0.0000	2.6588
Total	**14.6468**	**0.2807**	**18.1693**	**0.0301**		**2.3328**	**2.3328**		**2.3328**	**2.3328**	**221.0530**	**95.3019**	**316.3549**	**0.2065**	**0.0174**	**326.6995**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0153	0.1310	0.0557	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	151.7014	151.7014	2.9100e-003	2.7800e-003	152.6028
Landscaping	0.0486	0.0184	1.5943	8.0000e-005		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	2.5956	2.5956	2.5300e-003	0.0000	2.6588
Total	**1.2344**	**0.1494**	**1.6500**	**9.2000e-004**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**154.2969**	**154.2969**	**5.4400e-003**	**2.7800e-003**	**155.2617**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	29.5012	0.3646	8.8300e-003	41.2470
Unmitigated	35.3214	0.4557	0.0110	49.9976

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	13.943 / 8.79013	35.3214	0.4557	0.0110	49.9976
Total		**35.3214**	**0.4557**	**0.0110**	**49.9976**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.1544 / 8.25393	29.5012	0.3646	8.8300e-003	41.2470
Total		**29.5012**	**0.3646**	**8.8300e-003**	**41.2470**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.9824	1.1809	0.0000	49.5056
Unmitigated	19.9824	1.1809	0.0000	49.5056

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.44	19.9824	1.1809	0.0000	49.5056
Total		**19.9824**	**1.1809**	**0.0000**	**49.5056**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	98.44	19.9824	1.1809	0.0000	49.5056
Total		**19.9824**	**1.1809**	**0.0000**	**49.5056**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Proposed Project Appendix F Energy Calculations

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.

Given Factor:	**365.13**	**metric tons**	**CO2**	**(provided in CalEEMod Output File)**
Conversion Factor:	2204.62	pounds	per metric ton	
Intermediate Result:	**804,970**	**pounds**	**CO2**	
Conversion Factor:	22.38	pounds	CO2 per 1 gallon of diesel fuel	(Source: U.S. EIA, 2016. http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11)
Final Result:	**35,968.28**	**gallons**	**diesel fuel**	

On-road Mobile (Operational) Energy Usage

Note: For the sake of simplicity, it was assumed that passenger vehicles, light duty trucks, motorcycles, and mobile homes use gasoline, and all medium-duty trucks, heavy-duty trucks, and buses use diesel fuel.

Unmitigated:

Step 1: **Total Net Daily Trips (provided by Omni-Means)**

1,403

Res H-W	*Res H-S*	*Res H-O*
Trip Length (miles) (provided by CalEEMod)		
10.8	7.3	7.5
Trip %		
42.60%	21.00%	36.40%

Average Trip Length (weighted average)

8.8638

Therefore:

Average Daily VMT:

12,436

Step 2: Given:

Fleet Mix (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
45.5%	4.8%	21.2%	16.4%	4.5%	0.7%	1.3%	0.4%	0.1%	0.0%	4.0%	0.1%	0.8%

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LDA	LDT1	LDT2	MDV	MCY	MH	OBUS
29.53624832	24.049416	21.434808	15.8572598	35.11440457	6.502176502	6.4548637

Diesel MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LHD1	LHD2	MHD	HHD	UBUS	SBUS
17.03591268	15.354249	8.215282	5.44059835	4.409168105	7.211837748

Therefore:

Weighted Average MPG Factors

Gasoline: **25.0** Diesel: **14.4**

Step 3: **Therefore:**

462 **daily gallons of gasoline** **62** **daily gallons of diesel**

or

168,673	**annual gallons of gasoline**	**22,558**	**annual gallons of diesel**

On-road Mobile (Construction) Energy Usage - Site Preparation

Step 1: **Total Daily Worker Trips (provided by CalEEMod)**

18

Worker Trip Length (miles) (provided by CalEEMod)

10.8

Therefore:

Average Worker Daily VMT:

194

Step 2: Given:

Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2
0.3333333	0.3333333	0.3333333

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LDA	LDT1	LDT2
29.536248	24.049416	21.434808

Therefore:

Weighted Average Worker MPG Factor

25.0

Step 3: **Therefore:**

7.8 **Worker daily gallons of gasoline**

Step 4: 5 **# of Days (see CalEEMod)**

Therefore:

Result: **39** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Grading

Step 1: **Total Daily Worker Trips (provided by CalEEMod)**

15

Worker Trip Length (miles) (provided by CalEEMod)

10.8

Therefore:

Average Worker Daily VMT:

162

Step 2: Given:

Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2
0.3333333	0.3333333	0.3333333

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LDA	LDT1	LDT2
29.536248	24.049416	21.434808

Therefore:

Weighted Average Worker MPG Factor

25.0

Step 3: **Therefore:**

6.5 **Worker daily gallons of gasoline**

Step 4: 8 **# of Days (see CalEEMod)**

Therefore:

Result: **52** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Building Construction

Step 1:

Total Daily Worker Trips (provided by CalEEMod)	Total Daily Vendor Trips (provided by CalEEMod)	Total Daily Hauler Trips (provided by CalEEMod)
154	23	0

Worker Trip Length (miles) (provided by CalEEMod)	Vendor Trip Length (miles) (provided by CalEEMod)	Hauling Trip Length (miles) (provided by CalEEMod)
10.8	7.3	0

Therefore:

Average Worker Daily VMT:	Average Vendor Daily VMT:	Average Hauling Daily VMT:
1,663.20	168	-

Step 2: Given:

Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2
0.33333333	0.333333	0.333333

Assumed Fleet Mix for Vendors (provided by CalEEMod v2016.3.1)

MHD	HHD
0.5	0.5

And:

MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

Gasoline:

LDA	LDT1	LDT2
29.5362483	24.04942	21.43481

Diesel:

MHD	HHD
8.21528204	5.440598

Therefore:

Weighted Average Worker (Gasoline) MPG Factor	Weighted Average Vendor (Diesel) MPG Factor	Weighted Average Hauling MPG Factor
25.0	6.8	0.0

Step 3:

Therefore:		Therefore:		Therefore:	
67	Worker daily gallons of gasoline	25	Vendor daily gallons of diesel	0.0	

Step 4: 273 # of Days (see CalEEMod)

Therefore:

		Therefore:	
18,157	Total gallons of gasoline	6,713	Total gallons of diesel

On-road Mobile (Construction) Energy Usage - Paving

Step 1: **Total Daily Worker Trips (provided by CalEEMod)**

20

Worker Trip Length (miles) (provided by CalEEMod)

10.8

Therefore:

Average Worker Daily VMT:

216

Step 2: Given:

Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2
0.3333333	0.3333333	0.3333333

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LDA	LDT1	LDT2
29.536248	24.049416	21.434808

Therefore:

Weighted Average Worker MPG Factor

25.0

Step 3: **Therefore:**

8.6 **Worker daily gallons of gasoline**

Step 4: 22 **# of Days (see CalEEMod)**

Therefore:

Result: **190** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1: **Total Daily Worker Trips (provided by CalEEMod)**

31

Worker Trip Length (miles) (provided by CalEEMod)

10.8

Therefore:

Average Worker Daily VMT:

335

Step 2: Given:

Assumed Fleet Mix for Workers (provided by CalEEMod v2016.3.1)

LDA	LDT1	LDT2
0.3333333	0.3333333	0.3333333

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2014) - Year 2020

LDA	LDT1	LDT2
29.536248	24.049416	21.434808

Therefore:

Weighted Average Worker MPG Factor

25.0

Step 3: **Therefore:**

13.4 **Worker daily gallons of gasoline**

Step 4: 18 **# of Days (see CalEEMod)**

Therefore:

Result: **241** **Total gallons of gasoline**

APPENDIX E

Proposed Project EMFAC2014 Year 2020 Vehicle Emissions

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: Sub-Area
Region: El Dorado (MC)
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	Fuel	VMT	Fuel_Consumption	MPG (derived)	
El Dorado (MC)	2020	All Other Buses	DSL	2714.061	0.335208467		
El Dorado (MC)	2020	LDA	GAS	1999633	67.70098458	**29.53625**	
El Dorado (MC)	2020	LDA	DSL	24031.65	0.637230926		
El Dorado (MC)	2020	LDA	ELEC	59053.98	0		
El Dorado (MC)	2020	LDT1	GAS	164892.8	6.856415453	**24.04942**	
El Dorado (MC)	2020	LDT1	DSL	212.7008	0.007853781		
El Dorado (MC)	2020	LDT1	ELEC	44.72417	0		
El Dorado (MC)	2020	LDT2	GAS	891994.4	41.61429553	**21.43481**	
El Dorado (MC)	2020	LDT2	DSL	1535.418	0.052100445		
El Dorado (MC)	2020	LHD1	GAS	52820.96	5.565547904		
El Dorado (MC)	2020	LHD1	DSL	85522.85	5.020150968	**17.03591**	
El Dorado (MC)	2020	LHD2	GAS	5370.726	0.613444494		
El Dorado (MC)	2020	LHD2	DSL	23289.16	1.516789358	**15.35425**	
El Dorado (MC)	2020	MCY	GAS	22318.32	0.635588599	**35.1144**	
El Dorado (MC)	2020	MDV	GAS	548596.5	34.59591991	**15.85726**	
El Dorado (MC)	2020	MDV	DSL	10159.89	0.457027723		
El Dorado (MC)	2020	MH	GAS	5179.258	0.796542143	**6.502177**	
El Dorado (MC)	2020	MH	DSL	1905.175	0.201778648		
El Dorado (MC)	2020	Motor Coach	DSL	938.0049	0.168173463		
El Dorado (MC)	2020	OBUS	GAS	2439.178	0.377882246	**6.454864**	
El Dorado (MC)	2020	PTO	DSL	2549.24	0.561140847		
El Dorado (MC)	2020	SBUS	GAS	429.1092	0.038111366		
El Dorado (MC)	2020	SBUS	DSL	2636.041	0.365515854	**7.211838**	
El Dorado (MC)	2020	T6 Ag	DSL	812.5587	0.104016678	**7.811812**	**8.215282**
El Dorado (MC)	2020	T6 CAIRP heavy	DSL	208.691	0.024775347	**8.423335**	
El Dorado (MC)	2020	T6 CAIRP small	DSL	640.63	0.076441415	**8.380666**	
El Dorado (MC)	2020	T6 instate construction heav	DSL	52.27557	0.006384227	**8.188238**	
El Dorado (MC)	2020	T6 instate construction sma	DSL	5908.906	0.714693315	**8.267751**	
El Dorado (MC)	2020	T6 instate heavy	DSL	13026.31	1.593880939	**8.172697**	
El Dorado (MC)	2020	T6 instate small	DSL	29613.25	3.6141574	**8.193681**	
El Dorado (MC)	2020	T6 OOS heavy	DSL	119.5721	0.014211022	**8.414041**	
El Dorado (MC)	2020	T6 OOS small	DSL	367.0569	0.043798058	**8.380666**	
El Dorado (MC)	2020	T6 Public	DSL	4896.464	0.60084008	**8.149363**	
El Dorado (MC)	2020	T6 utility	DSL	124.0993	0.015539894	**7.985853**	
El Dorado (MC)	2020	T6TS	GAS	4658.421	0.743563762		
El Dorado (MC)	2020	T7 Ag	DSL	14.36496	0.002705378	**5.309779**	**5.440598**
El Dorado (MC)	2020	T7 CAIRP	DSL	758.7139	0.128288551	**5.91412**	
El Dorado (MC)	2020	T7 CAIRP construction	DSL	37.08389	0.006311782	**5.875344**	
El Dorado (MC)	2020	T7 NNOOS	DSL	940.8062	0.149402606	**6.29712**	
El Dorado (MC)	2020	T7 NOOS	DSL	299.6918	0.051681318	**5.798841**	
El Dorado (MC)	2020	T7 POAK	DSL	43.99389	0.007637306	**5.760394**	
El Dorado (MC)	2020	T7 Public	DSL	4006.716	0.781492957	**5.127002**	
El Dorado (MC)	2020	T7 Single	DSL	12838.48	2.269377494	**5.65727**	
El Dorado (MC)	2020	T7 single construction	DSL	95.93115	0.015994703	**5.997682**	
El Dorado (MC)	2020	T7 SWCV	DSL	1414.153	0.636103527	**2.223149**	
El Dorado (MC)	2020	T7 tractor	DSL	224.9077	0.038211404	**5.885878**	
El Dorado (MC)	2020	T7 tractor construction	DSL	71.52376	0.012034772	**5.943092**	
El Dorado (MC)	2020	T7 utility	DSL	1.515107	0.000293428	**5.163474**	
El Dorado (MC)	2020	T7IS	GAS	1081.042	0.243963723	**4.431159**	
El Dorado (MC)	2020	UBUS	GAS	2061.004	0.417976366		
El Dorado (MC)	2020	UBUS	DSL	2496.834	0.566282431	**4.409168**	

APPENDIX F

Retail Scenario Summer Emissions

El Dorado Hills Apartments Project (Retail Scenario)

El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	74.35	1000sqft	4.57	74,350.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage is 4.565 acres.

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating -

Vehicle Trips -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

El Dorado Hills Apartments Project (Retail Scenario) - El Dorado-Mountain County County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	273.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LotAcreage	1.71	4.57
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleEF	HHD	0.12	0.15
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.14
tblVehicleEF	HHD	1.88	2.26
tblVehicleEF	HHD	1.57	1.75
tblVehicleEF	HHD	10.68	11.48
tblVehicleEF	HHD	3,067.84	3,002.58
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	18.41	19.72
tblVehicleEF	HHD	5.91	6.62
tblVehicleEF	HHD	17.69	17.70
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05

tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.50	0.62
tblVehicleEF	HHD	1.7300e-004	1.8900e-004
tblVehicleEF	HHD	0.15	0.19
tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.33	0.38
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5800e-004	4.7600e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.57	0.70
tblVehicleEF	HHD	1.7300e-004	1.8900e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.36	0.41
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.11	0.13
tblVehicleEF	HHD	1.37	1.65
tblVehicleEF	HHD	1.61	1.80
tblVehicleEF	HHD	9.46	10.15
tblVehicleEF	HHD	3,248.50	3,178.66
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38

tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	19.00	20.35
tblVehicleEF	HHD	5.65	6.33
tblVehicleEF	HHD	17.62	17.62
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	1.0960e-003	1.2360e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.47	0.58
tblVehicleEF	HHD	4.3500e-004	4.8800e-004
tblVehicleEF	HHD	0.15	0.19
tblVehicleEF	HHD	3.0020e-003	3.3920e-003
tblVehicleEF	HHD	0.30	0.34
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.3700e-004	4.5400e-004
tblVehicleEF	HHD	1.0960e-003	1.2360e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66

tblVehicleEF	HHD	4.3500e-004	4.8800e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0020e-003	3.3920e-003
tblVehicleEF	HHD	0.33	0.38
tblVehicleEF	HHD	0.13	0.16
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.15
tblVehicleEF	HHD	2.58	3.11
tblVehicleEF	HHD	1.54	1.72
tblVehicleEF	HHD	11.58	12.46
tblVehicleEF	HHD	2,818.35	2,759.42
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	17.60	18.86
tblVehicleEF	HHD	5.97	6.69
tblVehicleEF	HHD	17.74	17.75
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004

tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.15	0.19
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7200e-004	4.9200e-004
tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.76
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.38	0.44
tblVehicleEF	LDA	4.8070e-003	5.4280e-003
tblVehicleEF	LDA	7.9280e-003	9.3330e-003
tblVehicleEF	LDA	0.64	0.70
tblVehicleEF	LDA	1.60	1.82
tblVehicleEF	LDA	270.70	281.32
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	2.7110e-003	2.8180e-003
tblVehicleEF	LDA	6.3500e-004	6.6000e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	5.4430e-003	6.1390e-003
tblVehicleEF	LDA	6.2200e-003	7.3130e-003
tblVehicleEF	LDA	0.77	0.84
tblVehicleEF	LDA	1.22	1.39
tblVehicleEF	LDA	294.78	306.45
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	2.9540e-003	3.0710e-003
tblVehicleEF	LDA	6.2800e-004	6.5200e-004
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	4.6330e-003	5.2410e-003
tblVehicleEF	LDA	9.0330e-003	0.01
tblVehicleEF	LDA	0.62	0.68
tblVehicleEF	LDA	1.87	2.13
tblVehicleEF	LDA	264.70	275.07
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
tblVehicleEF	LDT2	418.76	430.28
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05

tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41

tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21

tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10

tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004

tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91

tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86
tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11

tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38
tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86

tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96
tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20

tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43
tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74
tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01
tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70
tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
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tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58

tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96
tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004

tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44

tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10

tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45
tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004

tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04

tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42

tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30

tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16

tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30

tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004

tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03

tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003

tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003

tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6772	48.2608	23.2845	0.0397	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	3,994.2961	3,994.2961	1.1991	0.0000	4,024.2728
2019	96.0212	22.7996	18.6650	0.0323	0.2779	1.3055	1.5833	0.0755	1.2276	1.3031	0.0000	3,140.8633	3,140.8633	0.6466	0.0000	3,157.0274
Maximum	**96.0212**	**48.2608**	**23.2845**	**0.0397**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**3,994.2961**	**3,994.2961**	**1.1991**	**0.0000**	**4,024.2728**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6772	48.2608	23.2845	0.0397	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	3,994.2961	3,994.2961	1.1991	0.0000	4,024.2728
2019	96.0212	22.7996	18.6650	0.0323	0.2779	1.3055	1.5833	0.0755	1.2276	1.3031	0.0000	3,140.8633	3,140.8633	0.6466	0.0000	3,157.0274
Maximum	**96.0212**	**48.2608**	**23.2845**	**0.0397**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**3,994.2961**	**3,994.2961**	**1.1991**	**0.0000**	**4,024.2728**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Energy	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754
Mobile	15.4157	20.8097	110.6934	0.1749	13.7639	0.2376	14.0014	3.6749	0.2239	3.8988		17,421.1872	17,421.1872	1.2864		17,453.3463
Total	**17.4955**	**20.9546**	**110.8226**	**0.1758**	**13.7639**	**0.2486**	**14.0124**	**3.6749**	**0.2349**	**3.9099**		**17,594.9464**	**17,594.9464**	**1.2897**	**3.1900e-003**	**17,628.1391**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Energy	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
Mobile	12.7752	13.3625	69.4524	0.0957	7.2358	0.1367	7.3725	1.9320	0.1286	2.0606		9,515.6913	9,515.6913	0.7643		9,534.7992
Total	**14.8534**	**13.4929**	**69.5695**	**0.0965**	**7.2358**	**0.1466**	**7.3824**	**1.9320**	**0.1385**	**2.0705**		**9,672.0762**	**9,672.0762**	**0.7674**	**2.8700e-003**	**9,692.1145**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**15.10**	**35.61**	**37.22**	**45.11**	**47.43**	**41.03**	**47.32**	**47.43**	**41.03**	**47.04**	**0.00**	**45.03**	**45.03**	**40.50**	**10.03**	**45.02**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 111,525; Non-Residential Outdoor: 37,175; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	24.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1145	0.0620	0.8082	1.6400e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		162.6722	162.6722	6.2300e-003		162.8280
Total	**0.1145**	**0.0620**	**0.8082**	**1.6400e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**162.6722**	**162.6722**	**6.2300e-003**		**162.8280**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1145	0.0620	0.8082	1.6400e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		162.6722	162.6722	6.2300e-003		162.8280
Total	**0.1145**	**0.0620**	**0.8082**	**1.6400e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**162.6722**	**162.6722**	**6.2300e-003**		**162.8280**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0517	0.6735	1.3600e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		135.5602	135.5602	5.1900e-003		135.6900
Total	**0.0954**	**0.0517**	**0.6735**	**1.3600e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**135.5602**	**135.5602**	**5.1900e-003**		**135.6900**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0517	0.6735	1.3600e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		135.5602	135.5602	5.1900e-003		135.6900
Total	**0.0954**	**0.0517**	**0.6735**	**1.3600e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**135.5602**	**135.5602**	**5.1900e-003**		**135.6900**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0761	1.7597	0.6089	3.2900e-003	0.0807	0.0179	0.0986	0.0232	0.0171	0.0403		342.9254	342.9254	9.0400e-003		343.1514
Worker	0.1526	0.0827	1.0777	2.1800e-003	0.1972	1.6200e-003	0.1988	0.0523	1.5000e-003	0.0538		216.8963	216.8963	8.3100e-003		217.1040
Total	**0.2287**	**1.8424**	**1.6865**	**5.4700e-003**	**0.2779**	**0.0195**	**0.2974**	**0.0755**	**0.0186**	**0.0941**		**559.8216**	**559.8216**	**0.0174**		**560.2554**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0761	1.7597	0.6089	3.2900e-003	0.0807	0.0179	0.0986	0.0232	0.0171	0.0403		342.9254	342.9254	9.0400e-003		343.1514
Worker	0.1526	0.0827	1.0777	2.1800e-003	0.1972	1.6200e-003	0.1988	0.0523	1.5000e-003	0.0538		216.8963	216.8963	8.3100e-003		217.1040
Total	**0.2287**	**1.8424**	**1.6865**	**5.4700e-003**	**0.2779**	**0.0195**	**0.2974**	**0.0755**	**0.0186**	**0.0941**		**559.8216**	**559.8216**	**0.0174**		**560.2554**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0649	1.6480	0.5456	3.2700e-003	0.0807	0.0140	0.0948	0.0232	0.0134	0.0366		340.7876	340.7876	7.9700e-003		340.9870
Worker	0.1398	0.0728	0.9557	2.1000e-003	0.1972	1.5400e-003	0.1987	0.0523	1.4200e-003	0.0537		208.4955	208.4955	7.2600e-003		208.6770
Total	**0.2048**	**1.7208**	**1.5013**	**5.3700e-003**	**0.2779**	**0.0156**	**0.2935**	**0.0755**	**0.0149**	**0.0904**		**549.2831**	**549.2831**	**0.0152**		**549.6640**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0649	1.6480	0.5456	3.2700e-003	0.0807	0.0140	0.0948	0.0232	0.0134	0.0366		340.7876	340.7876	7.9700e-003		340.9870
Worker	0.1398	0.0728	0.9557	2.1000e-003	0.1972	1.5400e-003	0.1987	0.0523	1.4200e-003	0.0537		208.4955	208.4955	7.2600e-003		208.6770
Total	**0.2048**	**1.7208**	**1.5013**	**5.3700e-003**	**0.2779**	**0.0156**	**0.2935**	**0.0755**	**0.0149**	**0.0904**		**549.2831**	**549.2831**	**0.0152**		**549.6640**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1165	0.0606	0.7964	1.7500e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		173.7462	173.7462	6.0500e-003		173.8975
Total	**0.1165**	**0.0606**	**0.7964**	**1.7500e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**173.7462**	**173.7462**	**6.0500e-003**		**173.8975**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1165	0.0606	0.7964	1.7500e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		173.7462	173.7462	6.0500e-003		173.8975
Total	**0.1165**	**0.0606**	**0.7964**	**1.7500e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**173.7462**	**173.7462**	**6.0500e-003**		**173.8975**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	95.7256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**95.9921**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0291	0.0152	0.1991	4.4000e-004	0.0411	3.2000e-004	0.0414	0.0109	3.0000e-004	0.0112		43.4366	43.4366	1.5100e-003		43.4744
Total	**0.0291**	**0.0152**	**0.1991**	**4.4000e-004**	**0.0411**	**3.2000e-004**	**0.0414**	**0.0109**	**3.0000e-004**	**0.0112**		**43.4366**	**43.4366**	**1.5100e-003**		**43.4744**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	95.7256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**95.9921**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0291	0.0152	0.1991	4.4000e-004	0.0411	3.2000e-004	0.0414	0.0109	3.0000e-004	0.0112		43.4366	43.4366	1.5100e-003		43.4744
Total	**0.0291**	**0.0152**	**0.1991**	**4.4000e-004**	**0.0411**	**3.2000e-004**	**0.0414**	**0.0109**	**3.0000e-004**	**0.0112**		**43.4366**	**43.4366**	**1.5100e-003**		**43.4744**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.7752	13.3625	69.4524	0.0957	7.2358	0.1367	7.3725	1.9320	0.1286	2.0606		9,515.6913	9,515.6913	0.7643		9,534.7992
Unmitigated	15.4157	20.8097	110.6934	0.1749	13.7639	0.2376	14.0014	3.6749	0.2239	3.8988		17,421.1872	17,421.1872	1.2864		17,453.3463

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,174.75	3,715.27	1876.59	5,376,531	2,826,498
Total	3,174.75	3,715.27	1,876.59	5,376,531	2,826,498

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
NaturalGas Unmitigated	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	1476.82	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754
Total		**0.0159**	**0.1448**	**0.1216**	**8.7000e-004**		**0.0110**	**0.0110**		**0.0110**	**0.0110**		**173.7430**	**173.7430**	**3.3300e-003**	**3.1900e-003**	**174.7754**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	1.32913	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
Total		**0.0143**	**0.1303**	**0.1095**	**7.8000e-004**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**156.3687**	**156.3687**	**3.0000e-003**	**2.8700e-003**	**157.2979**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Unmitigated	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Total	**2.0639**	**7.0000e-005**	**7.6400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0163**	**0.0163**	**4.0000e-005**		**0.0174**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Total	**2.0639**	**7.0000e-005**	**7.6400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0163**	**0.0163**	**4.0000e-005**		**0.0174**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Retail Scenario Winter Emissions

17-0846 U 368 of 514

El Dorado Hills Apartments Project (Retail Scenario)

El Dorado-Mountain County County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	74.35	1000sqft	4.57	74,350.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage is 4.565 acres.

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating -

Vehicle Trips -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

El Dorado Hills Apartments Project (Retail Scenario) - El Dorado-Mountain County County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	273.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LotAcreage	1.71	4.57
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleEF	HHD	0.12	0.15
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.14
tblVehicleEF	HHD	1.88	2.26
tblVehicleEF	HHD	1.57	1.75
tblVehicleEF	HHD	10.68	11.48
tblVehicleEF	HHD	3,067.84	3,002.58
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	18.41	19.72
tblVehicleEF	HHD	5.91	6.62
tblVehicleEF	HHD	17.69	17.70
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05

tblVehicleEF	HHD	2.2600e-004	2.7200e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.50	0.62
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tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.33	0.38
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.5800e-004	4.7600e-004
tblVehicleEF	HHD	3.6400e-004	4.0300e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.57	0.70
tblVehicleEF	HHD	1.7300e-004	1.8900e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0060e-003	3.3790e-003
tblVehicleEF	HHD	0.36	0.41
tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.11	0.13
tblVehicleEF	HHD	1.37	1.65
tblVehicleEF	HHD	1.61	1.80
tblVehicleEF	HHD	9.46	10.15
tblVehicleEF	HHD	3,248.50	3,178.66
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38

tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	19.00	20.35
tblVehicleEF	HHD	5.65	6.33
tblVehicleEF	HHD	17.62	17.62
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004
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tblVehicleEF	HHD	0.47	0.58
tblVehicleEF	HHD	4.3500e-004	4.8800e-004
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tblVehicleEF	HHD	3.0020e-003	3.3920e-003
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.3700e-004	4.5400e-004
tblVehicleEF	HHD	1.0960e-003	1.2360e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66

tblVehicleEF	HHD	4.3500e-004	4.8800e-004
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.0020e-003	3.3920e-003
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tblVehicleEF	HHD	0.13	0.16
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.15
tblVehicleEF	HHD	2.58	3.11
tblVehicleEF	HHD	1.54	1.72
tblVehicleEF	HHD	11.58	12.46
tblVehicleEF	HHD	2,818.35	2,759.42
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
tblVehicleEF	HHD	3.9680e-003	3.9190e-003
tblVehicleEF	HHD	17.60	18.86
tblVehicleEF	HHD	5.97	6.69
tblVehicleEF	HHD	17.74	17.75
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.04	0.06
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.2600e-004	2.7200e-004

tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.54	0.66
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.15	0.19
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.35	0.40
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	4.7200e-004	4.9200e-004
tblVehicleEF	HHD	1.1800e-004	1.2400e-004
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	0.62	0.76
tblVehicleEF	HHD	5.7000e-005	5.9000e-005
tblVehicleEF	HHD	0.18	0.22
tblVehicleEF	HHD	3.2960e-003	3.6820e-003
tblVehicleEF	HHD	0.38	0.44
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tblVehicleEF	LDA	7.9280e-003	9.3330e-003
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tblVehicleEF	LDA	1.60	1.82
tblVehicleEF	LDA	270.70	281.32
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	2.7110e-003	2.8180e-003
tblVehicleEF	LDA	6.3500e-004	6.6000e-004
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	5.4430e-003	6.1390e-003
tblVehicleEF	LDA	6.2200e-003	7.3130e-003
tblVehicleEF	LDA	0.77	0.84
tblVehicleEF	LDA	1.22	1.39
tblVehicleEF	LDA	294.78	306.45
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.08	0.10
tblVehicleEF	LDA	2.9540e-003	3.0710e-003
tblVehicleEF	LDA	6.2800e-004	6.5200e-004
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	4.6330e-003	5.2410e-003
tblVehicleEF	LDA	9.0330e-003	0.01
tblVehicleEF	LDA	0.62	0.68
tblVehicleEF	LDA	1.87	2.13
tblVehicleEF	LDA	264.70	275.07
tblVehicleEF	LDA	60.76	62.81
tblVehicleEF	LDA	0.45	0.45
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
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tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05

tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41

tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21

tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10

tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004

tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91

tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86
tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11

tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38
tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86

tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96
tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20

tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43
tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74
tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01
tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70
tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
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tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58

tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96
tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004

tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44

tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10

tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45
tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004

tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04

tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42

tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30

tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16

tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30

tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004

tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03

tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003

tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003

tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6794	48.2755	23.2418	0.0395	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	3,978.6689	3,978.6689	1.1987	0.0000	4,008.6368
2019	96.0217	22.8576	18.6786	0.0320	0.2779	1.3057	1.5836	0.0755	1.2278	1.3033	0.0000	3,114.9525	3,114.9525	0.6468	0.0000	3,131.1218
Maximum	**96.0217**	**48.2755**	**23.2418**	**0.0395**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**3,978.6689**	**3,978.6689**	**1.1987**	**0.0000**	**4,008.6368**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6794	48.2755	23.2418	0.0395	18.2141	2.5781	20.7923	9.9699	2.3719	12.3418	0.0000	3,978.6689	3,978.6689	1.1987	0.0000	4,008.6368
2019	96.0217	22.8576	18.6786	0.0320	0.2779	1.3057	1.5836	0.0755	1.2278	1.3033	0.0000	3,114.9525	3,114.9525	0.6468	0.0000	3,131.1218
Maximum	**96.0217**	**48.2755**	**23.2418**	**0.0395**	**18.2141**	**2.5781**	**20.7923**	**9.9699**	**2.3719**	**12.3418**	**0.0000**	**3,978.6689**	**3,978.6689**	**1.1987**	**0.0000**	**4,008.6368**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Energy	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754
Mobile	12.8686	23.2187	119.2158	0.1617	13.7639	0.2384	14.0023	3.6749	0.2248	3.8997		16,079.5542	16,079.5542	1.3771		16,113.9818
Total	**14.9484**	**23.3635**	**119.3451**	**0.1626**	**13.7639**	**0.2495**	**14.0133**	**3.6749**	**0.2358**	**3.9107**		**16,253.3134**	**16,253.3134**	**1.3805**	**3.1900e-003**	**16,288.7746**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Energy	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
Mobile	10.0293	14.8092	79.1110	0.0888	7.2358	0.1375	7.3733	1.9320	0.1295	2.0614		8,802.1135	8,802.1135	0.8476		8,823.3044
Total	**12.1076**	**14.9396**	**79.2281**	**0.0896**	**7.2358**	**0.1475**	**7.3833**	**1.9320**	**0.1394**	**2.0713**		**8,958.4984**	**8,958.4984**	**0.8507**	**2.8700e-003**	**8,980.6197**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**19.00**	**36.06**	**33.61**	**44.92**	**47.43**	**40.88**	**47.31**	**47.43**	**40.89**	**47.03**	**0.00**	**44.88**	**44.88**	**38.38**	**10.03**	**44.87**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 111,525; Non-Residential Outdoor: 37,175; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	24.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**		**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1166	0.0767	0.7655	1.4800e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		147.0451	147.0451	5.8800e-003		147.1920
Total	**0.1166**	**0.0767**	**0.7655**	**1.4800e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**147.0451**	**147.0451**	**5.8800e-003**		**147.1920**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	**4.5627**	**48.1988**	**22.4763**	**0.0380**	**18.0663**	**2.5769**	**20.6432**	**9.9307**	**2.3708**	**12.3014**	**0.0000**	**3,831.6239**	**3,831.6239**	**1.1928**		**3,861.4448**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1166	0.0767	0.7655	1.4800e-003	0.1479	1.2200e-003	0.1491	0.0392	1.1200e-003	0.0403		147.0451	147.0451	5.8800e-003		147.1920
Total	**0.1166**	**0.0767**	**0.7655**	**1.4800e-003**	**0.1479**	**1.2200e-003**	**0.1491**	**0.0392**	**1.1200e-003**	**0.0403**		**147.0451**	**147.0451**	**5.8800e-003**		**147.1920**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272		2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**		**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0972	0.0639	0.6379	1.2300e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		122.5375	122.5375	4.9000e-003		122.6600
Total	**0.0972**	**0.0639**	**0.6379**	**1.2300e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**122.5375**	**122.5375**	**4.9000e-003**		**122.6600**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.7733	30.6725	16.5770	0.0297		1.5513	1.5513		1.4272	1.4272	0.0000	2,988.0216	2,988.0216	0.9302		3,011.2769
Total	**2.7733**	**30.6725**	**16.5770**	**0.0297**	**6.5523**	**1.5513**	**8.1037**	**3.3675**	**1.4272**	**4.7947**	**0.0000**	**2,988.0216**	**2,988.0216**	**0.9302**		**3,011.2769**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0972	0.0639	0.6379	1.2300e-003	0.1232	1.0100e-003	0.1242	0.0327	9.3000e-004	0.0336		122.5375	122.5375	4.9000e-003		122.6600
Total	**0.0972**	**0.0639**	**0.6379**	**1.2300e-003**	**0.1232**	**1.0100e-003**	**0.1242**	**0.0327**	**9.3000e-004**	**0.0336**		**122.5375**	**122.5375**	**4.9000e-003**		**122.6600**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**		**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0795	1.8061	0.6866	3.2300e-003	0.0807	0.0182	0.0989	0.0232	0.0174	0.0406		337.0939	337.0939	9.7700e-003		337.3381
Worker	0.1555	0.1023	1.0207	1.9700e-003	0.1972	1.6200e-003	0.1988	0.0523	1.5000e-003	0.0538		196.0601	196.0601	7.8400e-003		196.2560
Total	**0.2351**	**1.9084**	**1.7073**	**5.2000e-003**	**0.2779**	**0.0198**	**0.2977**	**0.0755**	**0.0189**	**0.0944**		**533.1540**	**533.1540**	**0.0176**		**533.5941**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	**2.6795**	**23.3900**	**17.5804**	**0.0269**		**1.4999**	**1.4999**		**1.4099**	**1.4099**	**0.0000**	**2,620.9351**	**2,620.9351**	**0.6421**		**2,636.9883**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0795	1.8061	0.6866	3.2300e-003	0.0807	0.0182	0.0989	0.0232	0.0174	0.0406		337.0939	337.0939	9.7700e-003		337.3381
Worker	0.1555	0.1023	1.0207	1.9700e-003	0.1972	1.6200e-003	0.1988	0.0523	1.5000e-003	0.0538		196.0601	196.0601	7.8400e-003		196.2560
Total	**0.2351**	**1.9084**	**1.7073**	**5.2000e-003**	**0.2779**	**0.0198**	**0.2977**	**0.0755**	**0.0189**	**0.0944**		**533.1540**	**533.1540**	**0.0176**		**533.5941**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0679	1.6889	0.6156	3.2100e-003	0.0807	0.0143	0.0950	0.0232	0.0137	0.0369		334.9252	334.9252	8.6200e-003		335.1408
Worker	0.1425	0.0900	0.8993	1.9000e-003	0.1972	1.5400e-003	0.1987	0.0523	1.4200e-003	0.0537		188.4472	188.4472	6.8100e-003		188.6175
Total	**0.2104**	**1.7788**	**1.5148**	**5.1100e-003**	**0.2779**	**0.0159**	**0.2937**	**0.0755**	**0.0151**	**0.0906**		**523.3724**	**523.3724**	**0.0154**		**523.7583**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0679	1.6889	0.6156	3.2100e-003	0.0807	0.0143	0.0950	0.0232	0.0137	0.0369		334.9252	334.9252	8.6200e-003		335.1408
Worker	0.1425	0.0900	0.8993	1.9000e-003	0.1972	1.5400e-003	0.1987	0.0523	1.4200e-003	0.0537		188.4472	188.4472	6.8100e-003		188.6175
Total	**0.2104**	**1.7788**	**1.5148**	**5.1100e-003**	**0.2779**	**0.0159**	**0.2937**	**0.0755**	**0.0151**	**0.0906**		**523.3724**	**523.3724**	**0.0154**		**523.7583**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637		1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**		**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1187	0.0750	0.7494	1.5800e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		157.0393	157.0393	5.6800e-003		157.1813
Total	**0.1187**	**0.0750**	**0.7494**	**1.5800e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**157.0393**	**157.0393**	**5.6800e-003**		**157.1813**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2679	12.7604	12.3130	0.0189		0.7196	0.7196		0.6637	0.6637	0.0000	1,843.3191	1,843.3191	0.5671		1,857.4966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2679**	**12.7604**	**12.3130**	**0.0189**		**0.7196**	**0.7196**		**0.6637**	**0.6637**	**0.0000**	**1,843.3191**	**1,843.3191**	**0.5671**		**1,857.4966**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1187	0.0750	0.7494	1.5800e-003	0.1643	1.2900e-003	0.1656	0.0436	1.1900e-003	0.0448		157.0393	157.0393	5.6800e-003		157.1813
Total	**0.1187**	**0.0750**	**0.7494**	**1.5800e-003**	**0.1643**	**1.2900e-003**	**0.1656**	**0.0436**	**1.1900e-003**	**0.0448**		**157.0393**	**157.0393**	**5.6800e-003**		**157.1813**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	95.7256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**95.9921**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0187	0.1874	3.9000e-004	0.0411	3.2000e-004	0.0414	0.0109	3.0000e-004	0.0112		39.2598	39.2598	1.4200e-003		39.2953
Total	**0.0297**	**0.0187**	**0.1874**	**3.9000e-004**	**0.0411**	**3.2000e-004**	**0.0414**	**0.0109**	**3.0000e-004**	**0.0112**		**39.2598**	**39.2598**	**1.4200e-003**		**39.2953**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	95.7256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**95.9921**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0187	0.1874	3.9000e-004	0.0411	3.2000e-004	0.0414	0.0109	3.0000e-004	0.0112		39.2598	39.2598	1.4200e-003		39.2953
Total	**0.0297**	**0.0187**	**0.1874**	**3.9000e-004**	**0.0411**	**3.2000e-004**	**0.0414**	**0.0109**	**3.0000e-004**	**0.0112**		**39.2598**	**39.2598**	**1.4200e-003**		**39.2953**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0293	14.8092	79.1110	0.0888	7.2358	0.1375	7.3733	1.9320	0.1295	2.0614		8,802.1135	8,802.1135	0.8476		8,823.3044
Unmitigated	12.8686	23.2187	119.2158	0.1617	13.7639	0.2384	14.0023	3.6749	0.2248	3.8997		16,079.5542	16,079.5542	1.3771		16,113.9818

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,174.75	3,715.27	1876.59	5,376,531	2,826,498
Total	3,174.75	3,715.27	1,876.59	5,376,531	2,826,498

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
NaturalGas Unmitigated	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	1476.82	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110		173.7430	173.7430	3.3300e-003	3.1900e-003	174.7754
Total		**0.0159**	**0.1448**	**0.1216**	**8.7000e-004**		**0.0110**	**0.0110**		**0.0110**	**0.0110**		**173.7430**	**173.7430**	**3.3300e-003**	**3.1900e-003**	**174.7754**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Regional Shopping Center	1.32913	0.0143	0.1303	0.1095	7.8000e-004		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		156.3687	156.3687	3.0000e-003	2.8700e-003	157.2979
Total		**0.0143**	**0.1303**	**0.1095**	**7.8000e-004**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**156.3687**	**156.3687**	**3.0000e-003**	**2.8700e-003**	**157.2979**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Unmitigated	2.0639	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Total	**2.0639**	**7.0000e-005**	**7.6400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0163**	**0.0163**	**4.0000e-005**		**0.0174**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4721					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5911					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0163	0.0163	4.0000e-005		0.0174
Total	**2.0639**	**7.0000e-005**	**7.6400e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0163**	**0.0163**	**4.0000e-005**		**0.0174**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX H

Retail Scenario Annual Emissions

El Dorado Hills Apartments Project (Retail Scenario)

El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	74.35	1000sqft	4.57	74,350.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	70
Climate Zone	1			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage is 4.565 acres.

Construction Phase - Based on Developer-provided start date of mid-2018 and construction end by late 2019.

Architectural Coating -

Vehicle Trips -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

El Dorado Hills Apartments Project (Retail Scenario) - El Dorado-Mountain County County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	273.00
tblConstructionPhase	NumDays	18.00	22.00
tblLandUse	LotAcreage	1.71	4.57
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleEF	HHD	0.12	0.15
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.13	0.14
tblVehicleEF	HHD	1.88	2.26
tblVehicleEF	HHD	1.57	1.75
tblVehicleEF	HHD	10.68	11.48
tblVehicleEF	HHD	3,067.84	3,002.58
tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38
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tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
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tblVehicleEF	HHD	2.2600e-004	2.7200e-004
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tblVehicleEF	HHD	0.57	0.70
tblVehicleEF	HHD	1.7300e-004	1.8900e-004
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tblVehicleEF	HHD	3.0060e-003	3.3790e-003
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tblVehicleEF	HHD	0.11	0.14
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	0.11	0.13
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tblVehicleEF	HHD	1,775.65	1,795.84
tblVehicleEF	HHD	27.96	28.38

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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.03	0.05
tblVehicleEF	HHD	2.4500e-004	2.9600e-004
tblVehicleEF	HHD	0.03	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	8.2910e-003	8.2800e-003
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tblVehicleEF	HHD	0.54	0.66

tblVehicleEF	HHD	4.3500e-004	4.8800e-004
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tblVehicleEF	HHD	8.2910e-003	8.2800e-003
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tblVehicleEF	HHD	2.2600e-004	2.7200e-004

tblVehicleEF	HHD	1.1800e-004	1.2400e-004
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tblVehicleEF	HHD	0.54	0.66
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tblVehicleEF	HHD	0.62	0.76
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tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
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tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
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tblVehicleEF	LDA	0.13	0.15
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tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.04	0.04
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tblVehicleEF	LDA	0.13	0.15
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.04
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tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.12
tblVehicleEF	LDA	1.9360e-003	1.9510e-003

tblVehicleEF	LDA	2.4160e-003	2.4320e-003
tblVehicleEF	LDA	1.7860e-003	1.8010e-003
tblVehicleEF	LDA	2.2220e-003	2.2370e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.12	0.14
tblVehicleEF	LDA	2.6510e-003	2.7550e-003
tblVehicleEF	LDA	6.4000e-004	6.6500e-004
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.11	0.13
tblVehicleEF	LDA	7.5420e-003	8.2220e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	2.03	2.33
tblVehicleEF	LDT1	6.33	7.03
tblVehicleEF	LDT1	339.27	347.96
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.20	0.23
tblVehicleEF	LDT1	0.31	0.34
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.45	0.51
tblVehicleEF	LDT1	3.4200e-003	3.5120e-003
tblVehicleEF	LDT1	8.7500e-004	9.0300e-004
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.46	0.49
tblVehicleEF	LDT1	0.11	0.11
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.35	0.36
tblVehicleEF	LDT1	0.49	0.56
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	2.33	2.65
tblVehicleEF	LDT1	4.81	5.34
tblVehicleEF	LDT1	366.85	376.03
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.28	0.30
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.35	0.39
tblVehicleEF	LDT1	3.7000e-003	3.7970e-003
tblVehicleEF	LDT1	8.4800e-004	8.7200e-004
tblVehicleEF	LDT1	0.59	0.62
tblVehicleEF	LDT1	0.58	0.61
tblVehicleEF	LDT1	0.28	0.29
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.38	0.43
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	1.99	2.29
tblVehicleEF	LDT1	7.46	8.28
tblVehicleEF	LDT1	332.39	340.95
tblVehicleEF	LDT1	76.24	77.68
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.22	0.25
tblVehicleEF	LDT1	0.34	0.37
tblVehicleEF	LDT1	3.4980e-003	3.7680e-003

tblVehicleEF	LDT1	4.9590e-003	5.3560e-003
tblVehicleEF	LDT1	3.2250e-003	3.4760e-003
tblVehicleEF	LDT1	4.5620e-003	4.9310e-003
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.51	0.59
tblVehicleEF	LDT1	3.3500e-003	3.4410e-003
tblVehicleEF	LDT1	8.9500e-004	9.2500e-004
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.49	0.52
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.06	0.08
tblVehicleEF	LDT1	0.42	0.44
tblVehicleEF	LDT1	0.56	0.64
tblVehicleEF	LDT2	8.2920e-003	9.1970e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.03	1.13
tblVehicleEF	LDT2	2.93	3.25
tblVehicleEF	LDT2	386.56	397.32
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.24	0.27
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.20	0.23
tblVehicleEF	LDT2	3.8750e-003	3.9840e-003
tblVehicleEF	LDT2	9.2300e-004	9.4900e-004
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.22	0.25
tblVehicleEF	LDT2	9.3100e-003	0.01
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	1.22	1.32
tblVehicleEF	LDT2	2.25	2.50
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tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.22	0.24
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.2000e-003	4.3170e-003
tblVehicleEF	LDT2	9.1100e-004	9.3600e-004
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.22	0.23
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.17	0.20
tblVehicleEF	LDT2	8.0000e-003	8.8910e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.00	1.09
tblVehicleEF	LDT2	3.42	3.79
tblVehicleEF	LDT2	378.51	389.09
tblVehicleEF	LDT2	87.22	89.20
tblVehicleEF	LDT2	0.21	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.26	0.30
tblVehicleEF	LDT2	1.8710e-003	1.8690e-003

tblVehicleEF	LDT2	2.5230e-003	2.5600e-003
tblVehicleEF	LDT2	1.7210e-003	1.7190e-003
tblVehicleEF	LDT2	2.3200e-003	2.3550e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.23	0.26
tblVehicleEF	LDT2	3.7940e-003	3.9020e-003
tblVehicleEF	LDT2	9.3200e-004	9.5900e-004
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.19	0.20
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.25	0.29
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.91	1.97
tblVehicleEF	LHD1	3.09	3.17
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05

tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.23	3.36
tblVehicleEF	LHD1	0.94	0.94
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.21	0.21
tblVehicleEF	LHD1	0.43	0.41
tblVehicleEF	LHD1	0.30	0.31
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7920e-003
tblVehicleEF	LHD1	3.1500e-004	3.1400e-004
tblVehicleEF	LHD1	2.7360e-003	2.6910e-003
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.0380e-003	1.0060e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.41

tblVehicleEF	LHD1	0.33	0.34
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.96	2.02
tblVehicleEF	LHD1	2.73	2.80
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.06	3.17
tblVehicleEF	LHD1	0.87	0.86
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.21	0.21

tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7880e-003	6.7930e-003
tblVehicleEF	LHD1	3.0800e-004	3.0700e-004
tblVehicleEF	LHD1	8.1420e-003	8.0490e-003
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5500e-003	2.4970e-003
tblVehicleEF	LHD1	0.26	0.26
tblVehicleEF	LHD1	0.42	0.40
tblVehicleEF	LHD1	0.31	0.31
tblVehicleEF	LHD1	4.7340e-003	4.7310e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.13	0.13
tblVehicleEF	LHD1	1.88	1.94
tblVehicleEF	LHD1	3.32	3.41
tblVehicleEF	LHD1	9.63	9.66
tblVehicleEF	LHD1	693.12	693.63
tblVehicleEF	LHD1	25.67	25.45
tblVehicleEF	LHD1	0.04	0.05
tblVehicleEF	LHD1	0.11	0.11
tblVehicleEF	LHD1	3.27	3.40
tblVehicleEF	LHD1	1.00	0.99
tblVehicleEF	LHD1	1.2060e-003	1.2250e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.0790e-003	1.1050e-003
tblVehicleEF	LHD1	1.1540e-003	1.1720e-003
tblVehicleEF	LHD1	2.5960e-003	2.6010e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.9300e-004	1.0180e-003
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.20	0.21
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.32	0.32
tblVehicleEF	LHD1	9.5000e-005	9.6000e-005
tblVehicleEF	LHD1	6.7870e-003	6.7910e-003
tblVehicleEF	LHD1	3.1900e-004	3.1800e-004
tblVehicleEF	LHD1	7.8000e-004	7.5000e-004
tblVehicleEF	LHD1	0.12	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.4100e-004	3.2400e-004
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.47	0.45
tblVehicleEF	LHD1	0.35	0.36
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3140e-003	6.8180e-003
tblVehicleEF	LHD2	0.10	0.10

tblVehicleEF	LHD2	1.00	1.06
tblVehicleEF	LHD2	0.96	1.02
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.62	2.84
tblVehicleEF	LHD2	0.34	0.35
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5900e-004	1.5800e-004

tblVehicleEF	LHD2	6.4500e-004	6.7800e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.6400e-004	2.7100e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	5.8310e-003	6.2910e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	1.01	1.07
tblVehicleEF	LHD2	0.85	0.90
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91
tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.49	2.69
tblVehicleEF	LHD2	0.31	0.32
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.17	0.18
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.5700e-004	1.5600e-004
tblVehicleEF	LHD2	1.8900e-003	1.9980e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.3800e-004	6.6200e-004
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	2.4090e-003	2.4270e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.6400e-003	7.1730e-003
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.99	1.05
tblVehicleEF	LHD2	1.03	1.09
tblVehicleEF	LHD2	16.00	16.08
tblVehicleEF	LHD2	705.05	708.21
tblVehicleEF	LHD2	14.10	13.91

tblVehicleEF	LHD2	7.4980e-003	7.9640e-003
tblVehicleEF	LHD2	0.16	0.16
tblVehicleEF	LHD2	2.64	2.86
tblVehicleEF	LHD2	0.35	0.37
tblVehicleEF	LHD2	1.6440e-003	1.6610e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	3.0200e-004	3.1900e-004
tblVehicleEF	LHD2	1.5730e-003	1.5890e-003
tblVehicleEF	LHD2	2.8070e-003	2.8120e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.7700e-004	2.9300e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.09	0.10
tblVehicleEF	LHD2	1.5400e-004	1.5500e-004
tblVehicleEF	LHD2	6.8140e-003	6.8430e-003
tblVehicleEF	LHD2	1.6000e-004	1.5900e-004
tblVehicleEF	LHD2	1.9500e-004	1.9900e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.20	0.20
tblVehicleEF	LHD2	0.08	0.09
tblVehicleEF	LHD2	0.10	0.11

tblVehicleEF	MCY	0.44	0.43
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	23.81	24.38
tblVehicleEF	MCY	10.90	10.88
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.22	1.23
tblVehicleEF	MCY	0.33	0.33
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	2.68	2.72
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.61	2.63
tblVehicleEF	MCY	2.1490e-003	2.1510e-003
tblVehicleEF	MCY	7.5300e-004	7.5700e-004
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	3.21	3.24
tblVehicleEF	MCY	1.18	1.19
tblVehicleEF	MCY	2.84	2.86

tblVehicleEF	MCY	0.42	0.41
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	22.45	22.96
tblVehicleEF	MCY	9.24	9.25
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.03	1.04
tblVehicleEF	MCY	0.30	0.30
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	2.50	2.53
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.01	2.03
tblVehicleEF	MCY	2.1210e-003	2.1220e-003
tblVehicleEF	MCY	7.0700e-004	7.1100e-004
tblVehicleEF	MCY	3.83	3.81
tblVehicleEF	MCY	1.44	1.43
tblVehicleEF	MCY	1.63	1.62
tblVehicleEF	MCY	3.00	3.03
tblVehicleEF	MCY	1.13	1.14
tblVehicleEF	MCY	2.19	2.20

tblVehicleEF	MCY	0.46	0.45
tblVehicleEF	MCY	0.22	0.23
tblVehicleEF	MCY	25.78	26.43
tblVehicleEF	MCY	12.31	12.28
tblVehicleEF	MCY	168.40	167.58
tblVehicleEF	MCY	49.73	50.07
tblVehicleEF	MCY	0.04	0.04
tblVehicleEF	MCY	1.30	1.31
tblVehicleEF	MCY	0.36	0.36
tblVehicleEF	MCY	2.0150e-003	2.0100e-003
tblVehicleEF	MCY	4.5650e-003	4.7900e-003
tblVehicleEF	MCY	1.8970e-003	1.8950e-003
tblVehicleEF	MCY	4.3290e-003	4.5460e-003
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	2.83	2.88
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.05	3.08
tblVehicleEF	MCY	2.1850e-003	2.1880e-003
tblVehicleEF	MCY	7.9000e-004	7.9300e-004
tblVehicleEF	MCY	0.24	0.23
tblVehicleEF	MCY	1.09	1.10
tblVehicleEF	MCY	0.12	0.12
tblVehicleEF	MCY	3.39	3.43
tblVehicleEF	MCY	1.36	1.37
tblVehicleEF	MCY	3.32	3.35

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.61	1.74
tblVehicleEF	MDV	5.32	5.66
tblVehicleEF	MDV	515.77	527.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.21	0.23
tblVehicleEF	MDV	0.46	0.49
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.43	0.47
tblVehicleEF	MDV	5.1720e-003	5.2890e-003
tblVehicleEF	MDV	1.2500e-003	1.2730e-003
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.25	0.25
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.47	0.51

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	1.87	2.01
tblVehicleEF	MDV	4.14	4.41
tblVehicleEF	MDV	557.87	570.31
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.40	0.43
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
tblVehicleEF	MDV	2.7810e-003	2.8870e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.34	0.37
tblVehicleEF	MDV	5.5960e-003	5.7230e-003
tblVehicleEF	MDV	1.2280e-003	1.2500e-003
tblVehicleEF	MDV	0.27	0.27
tblVehicleEF	MDV	0.29	0.29
tblVehicleEF	MDV	0.15	0.15
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.16
tblVehicleEF	MDV	0.37	0.40

tblVehicleEF	MDV	0.01	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.57	1.70
tblVehicleEF	MDV	6.20	6.59
tblVehicleEF	MDV	505.26	516.57
tblVehicleEF	MDV	115.38	117.12
tblVehicleEF	MDV	0.16	0.17
tblVehicleEF	MDV	0.23	0.25
tblVehicleEF	MDV	0.50	0.53
tblVehicleEF	MDV	1.9660e-003	1.9800e-003
tblVehicleEF	MDV	3.0180e-003	3.1300e-003
tblVehicleEF	MDV	1.8130e-003	1.8260e-003
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tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.49	0.53
tblVehicleEF	MDV	5.0660e-003	5.1810e-003
tblVehicleEF	MDV	1.2650e-003	1.2900e-003
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.26	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.20	0.20
tblVehicleEF	MDV	0.54	0.58

tblVehicleEF	MH	0.05	0.06
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	4.44	4.96
tblVehicleEF	MH	7.79	8.21
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.42	2.49
tblVehicleEF	MH	1.02	1.05
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.18	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.45	0.49
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.1400e-004	7.3600e-004
tblVehicleEF	MH	1.13	1.16
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.30	0.31
tblVehicleEF	MH	0.24	0.26

tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.49	0.53
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.65	5.15
tblVehicleEF	MH	6.67	7.06
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.24	2.30
tblVehicleEF	MH	0.94	0.96
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.19	0.20
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.41	0.44
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9500e-004	7.1600e-004
tblVehicleEF	MH	3.36	3.47
tblVehicleEF	MH	0.11	0.11

tblVehicleEF	MH	0.72	0.73
tblVehicleEF	MH	0.26	0.27
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.44	0.48
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	4.32	4.88
tblVehicleEF	MH	8.51	8.97
tblVehicleEF	MH	1,239.77	1,242.43
tblVehicleEF	MH	57.81	59.19
tblVehicleEF	MH	8.4170e-003	9.1600e-003
tblVehicleEF	MH	2.48	2.55
tblVehicleEF	MH	1.09	1.11
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.3650e-003	1.5560e-003
tblVehicleEF	MH	3.2660e-003	3.2640e-003
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	1.2600e-003	1.4410e-003
tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.18	0.19
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.48	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	7.2600e-004	7.4900e-004

tblVehicleEF	MH	0.32	0.32
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.11	0.11
tblVehicleEF	MH	0.24	0.26
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	0.52	0.57
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.09
tblVehicleEF	MHD	0.42	0.48
tblVehicleEF	MHD	0.73	0.97
tblVehicleEF	MHD	8.64	9.64
tblVehicleEF	MHD	169.82	169.60
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.21	1.41
tblVehicleEF	MHD	2.86	3.64
tblVehicleEF	MHD	12.99	12.96
tblVehicleEF	MHD	4.5160e-003	6.5330e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	4.3210e-003	6.2500e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	1.6300e-003	1.6280e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.4200e-004	6.7800e-004
tblVehicleEF	MHD	1.1850e-003	1.3580e-003
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	4.5700e-004	5.1600e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.53	0.60
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.08	0.08
tblVehicleEF	MHD	0.29	0.34
tblVehicleEF	MHD	0.74	0.99
tblVehicleEF	MHD	7.59	8.48
tblVehicleEF	MHD	180.02	179.79
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.25	1.46
tblVehicleEF	MHD	2.71	3.44

tblVehicleEF	MHD	12.89	12.85
tblVehicleEF	MHD	3.8070e-003	5.5070e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	3.6430e-003	5.2690e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.44	0.50
tblVehicleEF	MHD	1.7260e-003	1.7240e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.2500e-004	6.5800e-004
tblVehicleEF	MHD	3.5920e-003	4.1490e-003
tblVehicleEF	MHD	0.06	0.07
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	1.1720e-003	1.3450e-003
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.48	0.55
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.09	0.10

tblVehicleEF	MHD	0.56	0.64
tblVehicleEF	MHD	0.72	0.96
tblVehicleEF	MHD	9.35	10.45
tblVehicleEF	MHD	156.03	155.83
tblVehicleEF	MHD	1,216.71	1,221.10
tblVehicleEF	MHD	49.18	50.95
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.16	1.35
tblVehicleEF	MHD	2.89	3.67
tblVehicleEF	MHD	13.06	13.04
tblVehicleEF	MHD	5.4950e-003	7.9490e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.9000e-004	1.2020e-003
tblVehicleEF	MHD	5.2580e-003	7.6050e-003
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.1100e-004	1.1090e-003
tblVehicleEF	MHD	3.1900e-004	3.5300e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.15	0.22
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.51	0.58
tblVehicleEF	MHD	1.5000e-003	1.4980e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.5500e-004	6.9200e-004
tblVehicleEF	MHD	3.1900e-004	3.5300e-004

tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	0.05	0.06
tblVehicleEF	MHD	1.3700e-004	1.4900e-004
tblVehicleEF	MHD	0.17	0.26
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	0.56	0.63
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.30	0.30
tblVehicleEF	OBUS	1.15	1.33
tblVehicleEF	OBUS	9.37	10.07
tblVehicleEF	OBUS	130.57	128.18
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.79	0.85
tblVehicleEF	OBUS	2.70	3.06
tblVehicleEF	OBUS	3.48	3.55
tblVehicleEF	OBUS	3.6800e-004	4.7000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	3.5200e-004	4.4900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04

tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	1.2580e-003	1.2350e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.4000e-004	8.5700e-004
tblVehicleEF	OBUS	1.6240e-003	1.6500e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	5.4100e-004	5.4700e-004
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.60	0.64
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.28	0.28
tblVehicleEF	OBUS	1.19	1.37
tblVehicleEF	OBUS	8.17	8.78
tblVehicleEF	OBUS	137.34	134.81
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.82	0.88
tblVehicleEF	OBUS	2.56	2.89
tblVehicleEF	OBUS	3.36	3.42

tblVehicleEF	OBUS	3.1000e-004	3.9600e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	2.9700e-004	3.7900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.11	0.13
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.50	0.54
tblVehicleEF	OBUS	1.3220e-003	1.2980e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1900e-004	8.3500e-004
tblVehicleEF	OBUS	4.6680e-003	4.7580e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	1.2280e-003	1.2490e-003
tblVehicleEF	OBUS	0.14	0.16
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.55	0.59
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.33	0.33
tblVehicleEF	OBUS	1.13	1.30

tblVehicleEF	OBUS	10.15	10.91
tblVehicleEF	OBUS	121.22	119.04
tblVehicleEF	OBUS	1,357.92	1,364.87
tblVehicleEF	OBUS	67.57	68.07
tblVehicleEF	OBUS	9.1600e-004	9.0800e-004
tblVehicleEF	OBUS	0.76	0.81
tblVehicleEF	OBUS	2.74	3.10
tblVehicleEF	OBUS	3.57	3.64
tblVehicleEF	OBUS	4.4800e-004	5.7100e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	9.4500e-004	9.4300e-004
tblVehicleEF	OBUS	4.2900e-004	5.4700e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.11	0.12
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	0.58	0.62
tblVehicleEF	OBUS	1.1680e-003	1.1480e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.5300e-004	8.7100e-004
tblVehicleEF	OBUS	5.6300e-004	5.6600e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	0.14	0.15
tblVehicleEF	OBUS	0.05	0.05

tblVehicleEF	OBUS	0.63	0.68
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.14	0.16
tblVehicleEF	SBUS	3.99	4.03
tblVehicleEF	SBUS	1.06	1.29
tblVehicleEF	SBUS	7.89	9.04
tblVehicleEF	SBUS	1,365.44	1,366.48
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.97	15.54
tblVehicleEF	SBUS	6.46	6.87
tblVehicleEF	SBUS	17.40	17.44
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.48	0.48
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.15	0.16

tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.35	0.41
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.7300e-004	3.9700e-004
tblVehicleEF	SBUS	5.4970e-003	6.9830e-003
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	0.67	0.68
tblVehicleEF	SBUS	1.2540e-003	1.5610e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.38	0.45
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.11	0.12
tblVehicleEF	SBUS	3.80	3.83
tblVehicleEF	SBUS	1.09	1.34
tblVehicleEF	SBUS	5.06	5.80
tblVehicleEF	SBUS	1,439.59	1,440.58
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	15.45	16.04
tblVehicleEF	SBUS	6.13	6.52
tblVehicleEF	SBUS	17.35	17.38
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.47	0.48
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.27	0.32
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	3.2600e-004	3.4300e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	0.67	0.67
tblVehicleEF	SBUS	3.2320e-003	4.0430e-003
tblVehicleEF	SBUS	0.18	0.20
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	0.30	0.35
tblVehicleEF	SBUS	0.86	0.85
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.15	0.18
tblVehicleEF	SBUS	4.25	4.30

tblVehicleEF	SBUS	1.04	1.27
tblVehicleEF	SBUS	9.61	11.01
tblVehicleEF	SBUS	1,263.03	1,264.16
tblVehicleEF	SBUS	1,216.40	1,218.31
tblVehicleEF	SBUS	23.78	24.20
tblVehicleEF	SBUS	7.5700e-004	7.7400e-004
tblVehicleEF	SBUS	14.31	14.86
tblVehicleEF	SBUS	6.54	6.95
tblVehicleEF	SBUS	17.43	17.48
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	7.2800e-004	8.9700e-004
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	2.8720e-003	2.8690e-003
tblVehicleEF	SBUS	0.03	0.04
tblVehicleEF	SBUS	6.7000e-004	8.2500e-004
tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.48	0.49
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.39	0.46
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	4.0100e-004	4.3000e-004

tblVehicleEF	SBUS	1.3940e-003	1.7100e-003
tblVehicleEF	SBUS	0.05	0.07
tblVehicleEF	SBUS	0.68	0.68
tblVehicleEF	SBUS	4.4900e-004	5.4100e-004
tblVehicleEF	SBUS	0.18	0.19
tblVehicleEF	SBUS	0.04	0.06
tblVehicleEF	SBUS	0.43	0.51
tblVehicleEF	UBUS	0.65	0.69
tblVehicleEF	UBUS	0.09	0.09
tblVehicleEF	UBUS	7.44	7.69
tblVehicleEF	UBUS	17.48	17.67
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.43	5.81
tblVehicleEF	UBUS	13.73	13.88
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	0.76	0.79
tblVehicleEF	UBUS	0.03	0.03

tblVehicleEF	UBUS	1.24	1.23
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5990e-003	1.5840e-003
tblVehicleEF	UBUS	6.3680e-003	6.3600e-003
tblVehicleEF	UBUS	0.11	0.11
tblVehicleEF	UBUS	2.3520e-003	2.3050e-003
tblVehicleEF	UBUS	1.46	1.54
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.36	1.35
tblVehicleEF	UBUS	0.67	0.71
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	7.68	7.94
tblVehicleEF	UBUS	11.97	12.10
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.16	5.53
tblVehicleEF	UBUS	13.60	13.75
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003

tblVehicleEF	UBUS	0.80	0.83
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.99	0.98
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.5050e-003	1.4880e-003
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	5.6390e-003	5.5880e-003
tblVehicleEF	UBUS	1.52	1.60
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	1.09	1.08
tblVehicleEF	UBUS	0.64	0.68
tblVehicleEF	UBUS	0.10	0.10
tblVehicleEF	UBUS	7.28	7.53
tblVehicleEF	UBUS	20.87	21.12
tblVehicleEF	UBUS	2,039.69	2,052.27
tblVehicleEF	UBUS	128.62	126.79
tblVehicleEF	UBUS	3.6200e-004	3.7200e-004
tblVehicleEF	UBUS	5.52	5.90
tblVehicleEF	UBUS	13.83	13.98
tblVehicleEF	UBUS	0.55	0.56
tblVehicleEF	UBUS	0.08	0.09
tblVehicleEF	UBUS	1.3610e-003	1.3150e-003
tblVehicleEF	UBUS	0.24	0.24
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	1.2510e-003	1.2090e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003

tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	0.73	0.76
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.40	1.39
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	1.6570e-003	1.6430e-003
tblVehicleEF	UBUS	1.8490e-003	1.8050e-003
tblVehicleEF	UBUS	0.13	0.14
tblVehicleEF	UBUS	8.3500e-004	7.9900e-004
tblVehicleEF	UBUS	1.43	1.50
tblVehicleEF	UBUS	0.04	0.04
tblVehicleEF	UBUS	1.53	1.52

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2100	1.8748	1.3674	2.3000e-003	0.0894	0.1107	0.2001	0.0432	0.1038	0.1470	0.0000	205.3250	205.3250	0.0447	0.0000	206.4423
2019	1.0633	1.8031	1.5033	2.5700e-003	0.0213	0.1031	0.1244	5.8000e-003	0.0969	0.1027	0.0000	226.5639	226.5639	0.0482	0.0000	227.7676
Maximum	**1.0633**	**1.8748**	**1.5033**	**2.5700e-003**	**0.0894**	**0.1107**	**0.2001**	**0.0432**	**0.1038**	**0.1470**	**0.0000**	**226.5639**	**226.5639**	**0.0482**	**0.0000**	**227.7676**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.2100	1.8748	1.3674	2.3000e-003	0.0894	0.1107	0.2001	0.0432	0.1038	0.1470	0.0000	205.3248	205.3248	0.0447	0.0000	206.4421
2019	1.0633	1.8031	1.5033	2.5700e-003	0.0213	0.1031	0.1244	5.8000e-003	0.0969	0.1027	0.0000	226.5637	226.5637	0.0482	0.0000	227.7673
Maximum	**1.0633**	**1.8748**	**1.5033**	**2.5700e-003**	**0.0894**	**0.1107**	**0.2001**	**0.0432**	**0.1038**	**0.1470**	**0.0000**	**226.5637**	**226.5637**	**0.0482**	**0.0000**	**227.7673**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-15-2018	9-14-2018	1.0100	1.0100
2	9-15-2018	12-14-2018	0.9165	0.9165
3	12-15-2018	3-14-2019	0.8343	0.8343
4	3-15-2019	6-14-2019	0.8338	0.8338
5	6-15-2019	9-14-2019	1.3183	1.3183
		Highest	1.3183	1.3183

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3766	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003
Energy	2.9100e-003	0.0264	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	329.4119	329.4119	0.0142	3.3400e-003	330.7609
Mobile	1.9503	3.3686	16.8797	0.0247	1.9824	0.0357	2.0181	0.5311	0.0337	0.5648	0.0000	2,226.0205	2,226.0205	0.1805	0.0000	2,230.5337
Waste						0.0000	0.0000		0.0000	0.0000	15.8475	0.0000	15.8475	0.9366	0.0000	39.2615
Water						0.0000	0.0000		0.0000	0.0000	1.7472	12.1060	13.8532	0.1800	4.3500e-003	19.6497
Total	**2.3298**	**3.3950**	**16.9026**	**0.0248**	**1.9824**	**0.0377**	**2.0201**	**0.5311**	**0.0357**	**0.5668**	**17.5947**	**2,567.5397**	**2,585.1344**	**1.3112**	**7.6900e-003**	**2,620.2072**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3766	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003
Energy	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	294.9697	294.9697	0.0127	2.9900e-003	296.1778
Mobile	1.5394	2.1502	11.0085	0.0135	1.0422	0.0206	1.0627	0.2792	0.0194	0.2986	0.0000	1,218.3876	1,218.3876	0.1098	0.0000	1,221.1317
Waste						0.0000	0.0000		0.0000	0.0000	15.8475	0.0000	15.8475	0.9366	0.0000	39.2615
Water						0.0000	0.0000		0.0000	0.0000	1.3978	10.1625	11.5603	0.1440	3.4800e-003	16.1994
Total	**1.9186**	**2.1739**	**11.0291**	**0.0137**	**1.0422**	**0.0224**	**1.0645**	**0.2792**	**0.0212**	**0.3004**	**17.2453**	**1,523.5211**	**1,540.7664**	**1.2030**	**6.4700e-003**	**1,572.7719**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**17.65**	**35.97**	**34.75**	**44.92**	**47.43**	**40.68**	**47.30**	**47.43**	**40.66**	**47.00**	**1.99**	**40.66**	**40.40**	**8.25**	**15.86**	**39.98**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/15/2018	6/21/2018	5	5	
2	Grading	Grading	6/22/2018	7/3/2018	5	8	
3	Building Construction	Building Construction	7/4/2018	7/19/2019	5	273	
4	Paving	Paving	7/20/2019	8/20/2019	5	22	
5	Architectural Coating	Architectural Coating	8/21/2019	9/13/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 111,525; Non-Residential Outdoor: 37,175; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	24.00	12.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0452**	**6.4400e-003**	**0.0516**	**0.0248**	**5.9300e-003**	**0.0308**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	1.8800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3406	0.3406	1.0000e-005	0.0000	0.3409
Total	**2.6000e-004**	**1.8000e-004**	**1.8800e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3406**	**0.3406**	**1.0000e-005**	**0.0000**	**0.3409**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.1205	0.0562	1.0000e-004		6.4400e-003	6.4400e-003		5.9300e-003	5.9300e-003	0.0000	8.6900	8.6900	2.7100e-003	0.0000	8.7576
Total	**0.0114**	**0.1205**	**0.0562**	**1.0000e-004**	**0.0452**	**6.4400e-003**	**0.0516**	**0.0248**	**5.9300e-003**	**0.0308**	**0.0000**	**8.6900**	**8.6900**	**2.7100e-003**	**0.0000**	**8.7576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.8000e-004	1.8800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3406	0.3406	1.0000e-005	0.0000	0.3409
Total	**2.6000e-004**	**1.8000e-004**	**1.8800e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3406**	**0.3406**	**1.0000e-005**	**0.0000**	**0.3409**

3.3 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8428	10.8428	3.3800e-003	0.0000	10.9271
Total	**0.0111**	**0.1227**	**0.0663**	**1.2000e-004**	**0.0262**	**6.2100e-003**	**0.0324**	**0.0135**	**5.7100e-003**	**0.0192**	**0.0000**	**10.8428**	**10.8428**	**3.3800e-003**	**0.0000**	**10.9271**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5000e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4541	0.4541	2.0000e-005	0.0000	0.4545
Total	**3.5000e-004**	**2.4000e-004**	**2.5000e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4541**	**0.4541**	**2.0000e-005**	**0.0000**	**0.4545**

3.3 Grading - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1227	0.0663	1.2000e-004		6.2100e-003	6.2100e-003		5.7100e-003	5.7100e-003	0.0000	10.8427	10.8427	3.3800e-003	0.0000	10.9271
Total	**0.0111**	**0.1227**	**0.0663**	**1.2000e-004**	**0.0262**	**6.2100e-003**	**0.0324**	**0.0135**	**5.7100e-003**	**0.0192**	**0.0000**	**10.8427**	**10.8427**	**3.3800e-003**	**0.0000**	**10.9271**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.4000e-004	2.5000e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4541	0.4541	2.0000e-005	0.0000	0.4545
Total	**3.5000e-004**	**2.4000e-004**	**2.5000e-003**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4541**	**0.4541**	**2.0000e-005**	**0.0000**	**0.4545**

3.4 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1728	1.5087	1.1339	1.7400e-003		0.0967	0.0967		0.0909	0.0909	0.0000	153.3599	153.3599	0.0376	0.0000	154.2992
Total	**0.1728**	**1.5087**	**1.1339**	**1.7400e-003**		**0.0967**	**0.0967**		**0.0909**	**0.0909**	**0.0000**	**153.3599**	**153.3599**	**0.0376**	**0.0000**	**154.2992**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-003	0.1165	0.0419	2.1000e-004	5.0300e-003	1.1600e-003	6.1900e-003	1.4500e-003	1.1100e-003	2.5700e-003	0.0000	19.9223	19.9223	5.5000e-004	0.0000	19.9361
Worker	9.0700e-003	6.1000e-003	0.0646	1.3000e-004	0.0122	1.0000e-004	0.0123	3.2400e-003	1.0000e-004	3.3400e-003	0.0000	11.7154	11.7154	4.6000e-004	0.0000	11.7269
Total	**0.0141**	**0.1226**	**0.1066**	**3.4000e-004**	**0.0172**	**1.2600e-003**	**0.0185**	**4.6900e-003**	**1.2100e-003**	**5.9100e-003**	**0.0000**	**31.6377**	**31.6377**	**1.0100e-003**	**0.0000**	**31.6629**

3.4 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1728	1.5087	1.1339	1.7400e-003		0.0967	0.0967		0.0909	0.0909	0.0000	153.3597	153.3597	0.0376	0.0000	154.2990
Total	**0.1728**	**1.5087**	**1.1339**	**1.7400e-003**		**0.0967**	**0.0967**		**0.0909**	**0.0909**	**0.0000**	**153.3597**	**153.3597**	**0.0376**	**0.0000**	**154.2990**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-003	0.1165	0.0419	2.1000e-004	5.0300e-003	1.1600e-003	6.1900e-003	1.4500e-003	1.1100e-003	2.5700e-003	0.0000	19.9223	19.9223	5.5000e-004	0.0000	19.9361
Worker	9.0700e-003	6.1000e-003	0.0646	1.3000e-004	0.0122	1.0000e-004	0.0123	3.2400e-003	1.0000e-004	3.3400e-003	0.0000	11.7154	11.7154	4.6000e-004	0.0000	11.7269
Total	**0.0141**	**0.1226**	**0.1066**	**3.4000e-004**	**0.0172**	**1.2600e-003**	**0.0185**	**4.6900e-003**	**1.2100e-003**	**5.9100e-003**	**0.0000**	**31.6377**	**31.6377**	**1.0100e-003**	**0.0000**	**31.6629**

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1700	1.5177	1.2358	1.9400e-003		0.0929	0.0929		0.0873	0.0873	0.0000	169.2750	169.2750	0.0412	0.0000	170.3060
Total	**0.1700**	**1.5177**	**1.2358**	**1.9400e-003**		**0.0929**	**0.0929**		**0.0873**	**0.0873**	**0.0000**	**169.2750**	**169.2750**	**0.0412**	**0.0000**	**170.3060**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7600e-003	0.1216	0.0420	2.3000e-004	5.6100e-003	1.0200e-003	6.6300e-003	1.6200e-003	9.8000e-004	2.6000e-003	0.0000	22.0984	22.0984	5.4000e-004	0.0000	22.1120
Worker	9.2600e-003	5.9800e-003	0.0637	1.4000e-004	0.0136	1.1000e-004	0.0137	3.6200e-003	1.0000e-004	3.7200e-003	0.0000	12.5703	12.5703	4.5000e-004	0.0000	12.5814
Total	**0.0140**	**0.1276**	**0.1057**	**3.7000e-004**	**0.0192**	**1.1300e-003**	**0.0203**	**5.2400e-003**	**1.0800e-003**	**6.3200e-003**	**0.0000**	**34.6687**	**34.6687**	**9.9000e-004**	**0.0000**	**34.6934**

3.4 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1700	1.5177	1.2358	1.9400e-003		0.0929	0.0929		0.0873	0.0873	0.0000	169.2748	169.2748	0.0412	0.0000	170.3057
Total	**0.1700**	**1.5177**	**1.2358**	**1.9400e-003**		**0.0929**	**0.0929**		**0.0873**	**0.0873**	**0.0000**	**169.2748**	**169.2748**	**0.0412**	**0.0000**	**170.3057**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7600e-003	0.1216	0.0420	2.3000e-004	5.6100e-003	1.0200e-003	6.6300e-003	1.6200e-003	9.8000e-004	2.6000e-003	0.0000	22.0984	22.0984	5.4000e-004	0.0000	22.1120
Worker	9.2600e-003	5.9800e-003	0.0637	1.4000e-004	0.0136	1.1000e-004	0.0137	3.6200e-003	1.0000e-004	3.7200e-003	0.0000	12.5703	12.5703	4.5000e-004	0.0000	12.5814
Total	**0.0140**	**0.1276**	**0.1057**	**3.7000e-004**	**0.0192**	**1.1300e-003**	**0.0203**	**5.2400e-003**	**1.0800e-003**	**6.3200e-003**	**0.0000**	**34.6687**	**34.6687**	**9.9000e-004**	**0.0000**	**34.6934**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0140	0.1404	0.1354	2.1000e-004		7.9200e-003	7.9200e-003		7.3000e-003	7.3000e-003	0.0000	18.3945	18.3945	5.6600e-003	0.0000	18.5360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1404**	**0.1354**	**2.1000e-004**		**7.9200e-003**	**7.9200e-003**		**7.3000e-003**	**7.3000e-003**	**0.0000**	**18.3945**	**18.3945**	**5.6600e-003**	**0.0000**	**18.5360**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	7.6000e-004	8.1100e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6004	1.6004	6.0000e-005	0.0000	1.6018
Total	**1.1800e-003**	**7.6000e-004**	**8.1100e-003**	**2.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.6004**	**1.6004**	**6.0000e-005**	**0.0000**	**1.6018**

3.5 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0140	0.1404	0.1354	2.1000e-004		7.9200e-003	7.9200e-003		7.3000e-003	7.3000e-003	0.0000	18.3945	18.3945	5.6600e-003	0.0000	18.5360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0140**	**0.1404**	**0.1354**	**2.1000e-004**		**7.9200e-003**	**7.9200e-003**		**7.3000e-003**	**7.3000e-003**	**0.0000**	**18.3945**	**18.3945**	**5.6600e-003**	**0.0000**	**18.5360**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1800e-003	7.6000e-004	8.1100e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7500e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6004	1.6004	6.0000e-005	0.0000	1.6018
Total	**1.1800e-003**	**7.6000e-004**	**8.1100e-003**	**2.0000e-005**	**1.7300e-003**	**1.0000e-005**	**1.7500e-003**	**4.6000e-004**	**1.0000e-005**	**4.7000e-004**	**0.0000**	**1.6004**	**1.6004**	**6.0000e-005**	**0.0000**	**1.6018**

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.8639**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	1.6600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3274	0.3274	1.0000e-005	0.0000	0.3276
Total	**2.4000e-004**	**1.6000e-004**	**1.6600e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3274**	**0.3274**	**1.0000e-005**	**0.0000**	**0.3276**

3.6 Architectural Coating - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8615					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0165	0.0166	3.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	2.2979	2.2979	1.9000e-004	0.0000	2.3028
Total	**0.8639**	**0.0165**	**0.0166**	**3.0000e-005**		**1.1600e-003**	**1.1600e-003**		**1.1600e-003**	**1.1600e-003**	**0.0000**	**2.2979**	**2.2979**	**1.9000e-004**	**0.0000**	**2.3028**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.6000e-004	1.6600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3274	0.3274	1.0000e-005	0.0000	0.3276
Total	**2.4000e-004**	**1.6000e-004**	**1.6600e-003**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3274**	**0.3274**	**1.0000e-005**	**0.0000**	**0.3276**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

Provide Traffic Calming Measures

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5394	2.1502	11.0085	0.0135	1.0422	0.0206	1.0627	0.2792	0.0194	0.2986	0.0000	1,218.3876	1,218.3876	0.1098	0.0000	1,221.1317
Unmitigated	1.9503	3.3686	16.8797	0.0247	1.9824	0.0357	2.0181	0.5311	0.0337	0.5648	0.0000	2,226.0205	2,226.0205	0.1805	0.0000	2,230.5337

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	3,174.75	3,715.27	1876.59	5,376,531	2,826,498
Total	3,174.75	3,715.27	1,876.59	5,376,531	2,826,498

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.454995	0.048403	0.212486	0.164367	0.044757	0.007498	0.013219	0.003968	0.000916	0.000362	0.039855	0.000757	0.008417

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	269.0811	269.0811	0.0122	2.5200e-003	270.1354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	300.6468	300.6468	0.0136	2.8100e-003	301.8248
NaturalGas Mitigated	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.8886	25.8886	5.0000e-004	4.7000e-004	26.0424
NaturalGas Unmitigated	2.9100e-003	0.0264	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.7651	28.7651	5.5000e-004	5.3000e-004	28.9360

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	539038	2.9100e-003	0.0264	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.7651	28.7651	5.5000e-004	5.3000e-004	28.9360
Total		**2.9100e-003**	**0.0264**	**0.0222**	**1.6000e-004**		**2.0100e-003**	**2.0100e-003**		**2.0100e-003**	**2.0100e-003**	**0.0000**	**28.7651**	**28.7651**	**5.5000e-004**	**5.3000e-004**	**28.9360**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Regional Shopping Center	485134	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.8886	25.8886	5.0000e-004	4.7000e-004	26.0424
Total		**2.6200e-003**	**0.0238**	**0.0200**	**1.4000e-004**		**1.8100e-003**	**1.8100e-003**		**1.8100e-003**	**1.8100e-003**	**0.0000**	**25.8886**	**25.8886**	**5.0000e-004**	**4.7000e-004**	**26.0424**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	1.03347e+006	300.6468	0.0136	2.8100e-003	301.8248
Total		**300.6468**	**0.0136**	**2.8100e-003**	**301.8248**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	924959	269.0811	0.0122	2.5200e-003	270.1354
Total		**269.0811**	**0.0122**	**2.5200e-003**	**270.1354**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3766	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003
Unmitigated	0.3766	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003
Total	**0.3766**	**1.0000e-005**	**6.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.3300e-003**	**1.3300e-003**	**0.0000**	**0.0000**	**1.4200e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2904					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3300e-003	1.3300e-003	0.0000	0.0000	1.4200e-003
Total	**0.3766**	**1.0000e-005**	**6.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.3300e-003**	**1.3300e-003**	**0.0000**	**0.0000**	**1.4200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.5603	0.1440	3.4800e-003	16.1994
Unmitigated	13.8532	0.1800	4.3500e-003	19.6497

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	5.50729 / 3.37544	13.8532	0.1800	4.3500e-003	19.6497
Total		**13.8532**	**0.1800**	**4.3500e-003**	**19.6497**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	4.40583 / 3.16954	11.5603	0.1440	3.4800e-003	16.1994
Total		**11.5603**	**0.1440**	**3.4800e-003**	**16.1994**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.8475	0.9366	0.0000	39.2615
Unmitigated	15.8475	0.9366	0.0000	39.2615

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	78.07	15.8475	0.9366	0.0000	39.2615
Total		**15.8475**	**0.9366**	**0.0000**	**39.2615**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	78.07	15.8475	0.9366	0.0000	39.2615
Total		**15.8475**	**0.9366**	**0.0000**	**39.2615**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation