

Appendix I

Greenhouse Gas Emissions Technical Report

**GREENHOUSE GAS ANALYSIS
FOR THE
OLD TOWN COMMUNITY PLAN UPDATE**

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TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
LIST OF ACRONYMS AND ABBREVIATIONS	iii
SECTION 1 – INTRODUCTION.....	1
1.1 Project Description	1
SECTION 2 – EXISTING CONDITIONS.....	3
2.1 Scientific Basis of Climate Change	3
2.2 GHG Emission Sources	4
2.3 Global Climate Trends and Associated Impacts	6
SECTION 3 – METHODOLOGY.....	9
SECTION 4 – PROJECT IMPACTS	13
SECTION 5– REFERENCES.....	15
 APPENDIX A. CalEEMod Data	

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1 Old Town Community Plan Area.....	2
2 2015 California GHG Emissions by Category.....	5

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1 GHG Emissions for the Old Town Community Plan Area (MT CO ₂ e per Year)	13

LIST OF ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
ADT	average daily trips
ARB	California Air Resources Board
CAA	Clean Air Act
CalEEMod	California Emissions Estimator Model
CH ₄	methane
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CPU	Community Plan Update
EPA	United States Environmental Protection Agency
°F	degrees Fahrenheit
GHG	greenhouse gas emissions
GWP	global warming potential
HFC	hydrofluorocarbon
IPCC	Intergovernmental Panel on Climate Change
MT	metric tons
MMT	million metric tons
N ₂ O	nitrous oxide
NF ₃	nitrogen trifluoride
PFC	perfluorocarbon
RPS	Renewable Portfolio Standard
SF ₆	sulfur hexafluoride
TIS	Traffic Impact Study
VMT	vehicle miles traveled

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SECTION 1 INTRODUCTION

This greenhouse gas technical study analyzes the proposed Old Town Community Plan Update (CPU). The Old Town CPU area is centrally located to the north of Downtown San Diego and south of Mission Bay. The Old Town Community Plan area lies between the Midway Pacific-Highway Community Plan area to the west and Mission Hills and Mission Valley to the east. The Old Town CPU provides a long-range guide for the future physical development of the community. The existing Old Town Community Plan was last updated in 1987. The proposed CPU, and associated actions, will ensure consistency of the CPU with and incorporate relevant policies from the City of San Diego General Plan (General Plan), as well as provide a long-range, comprehensive policy framework and vision for growth and development in the Old Town community through 2035.

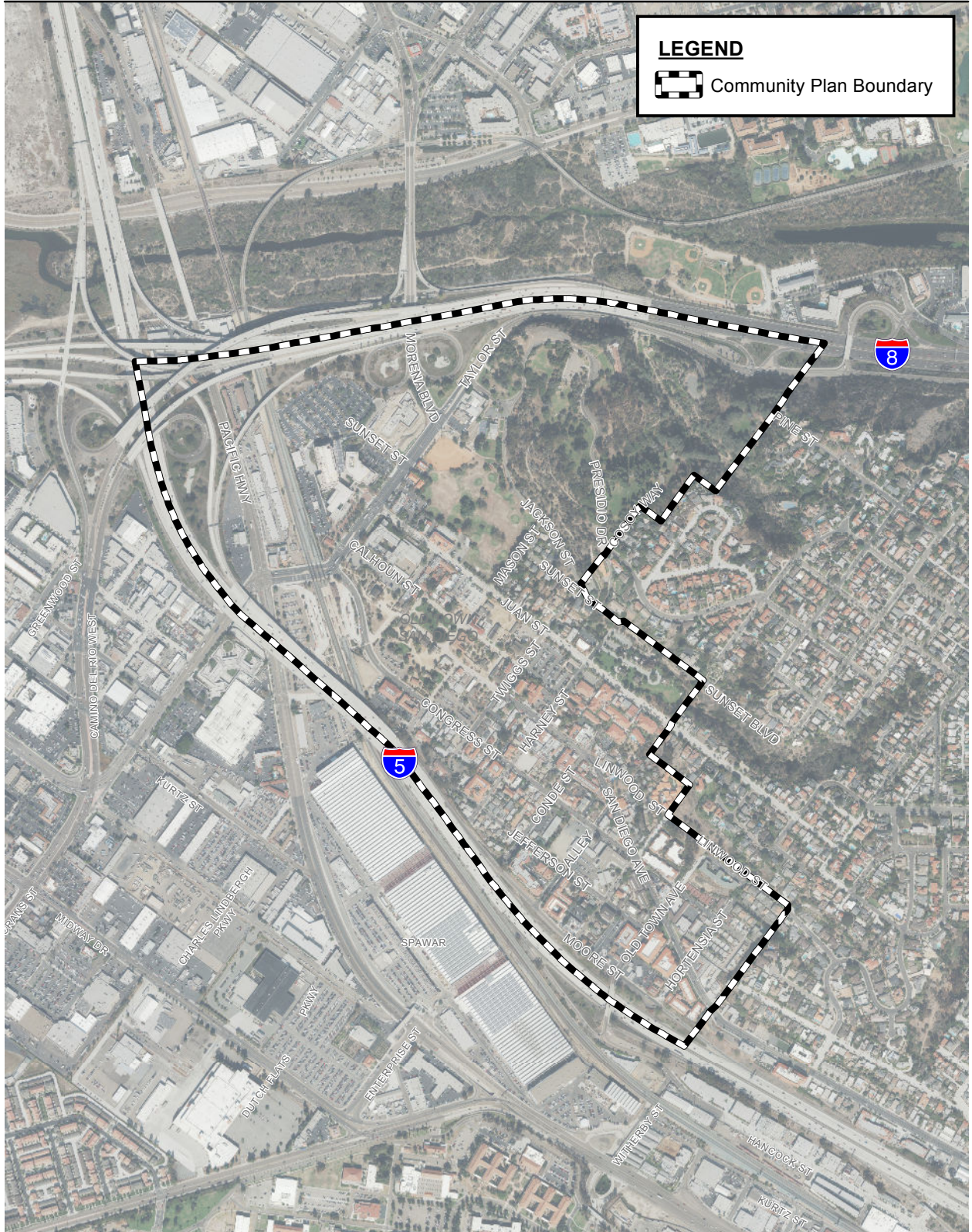
The greenhouse gas (GHG) analysis was prepared to support the City of San Diego environmental review process. The purpose of this report is to discuss global climate change and existing GHG emissions sources and estimate the emissions from implementation of the proposed CPU.

GHG emissions have the potential to adversely affect the environment because such emissions contribute, on a cumulative basis, to global climate change. Global climate change also has the potential to result in sea level rise (resulting in flooding of low-lying areas), affect rainfall and snowfall (leading to changes in water supply and runoff), affect temperatures and habitats (affecting biological and agricultural resources), and result in many other adverse effects.

1.1 PROJECT DESCRIPTION

The project includes the comprehensive update to the Old Town Community Plan, which is intended to guide development through 2035 build-out of the Community Plan. The proposed CPU provides a detailed policy direction to implement the General Plan with respect to the distribution and arrangement of land uses (public and private); local street and transit network; prioritization and provision of public facilities, community, and site-specific urban design guidelines; and recommendations to preserve and enhance natural open space and historic and cultural resources within the Old Town community.

The guiding principles for the proposed CPU include the vision for Old Town community as an attractive, vibrant, and healthy community that respects the importance of Old Town San Diego as the site of initial settlement in the City and the birthplace of the State of California. The proposed CPU also envisions the community as a pedestrian-oriented historical small town and provide policy direction that new buildings and uses enhance the community character and livability with an emphasis on design that respects the history of the community and encourages pedestrian activity. The proposed CPU identifies the need for a community with a balance of residential and visitor-serving uses. The CPU identifies the community's mix of pedestrian-oriented residential, commercial, and public space served by the Old Town Transit Center is consistent with the "City of Villages" General Plan concept.



LEGEND

 Community Plan Boundary

Source: SANDAG 2014; City of San Diego 2017

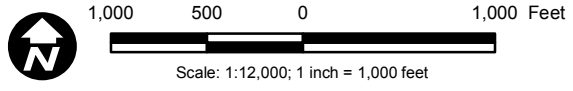


Figure 1
Old Town Community Plan Area

Old Town Community Plan Update PEIR

Path: P:_6044\60440144_MidOld_CPU\900-CAD-GIS\920 GIS\922_Maps\CommunityPlan\OldTown_Community_85x11.mxd, 7/19/2017, augellop

SECTION 2 EXISTING CONDITIONS

2.1 SCIENTIFIC BASIS OF CLIMATE CHANGE

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. A portion of the solar radiation that enters the earth's atmosphere is absorbed by the earth's surface, and a smaller portion of this radiation is reflected back toward space. This infrared radiation (i.e., thermal heat) is absorbed by GHGs within the earth's atmosphere. As a result, infrared radiation released from the earth that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the "greenhouse effect," is responsible for maintaining a habitable climate on the earth.

GHGs are present in the atmosphere naturally, are released by natural and anthropogenic sources, and are formed from secondary reactions taking place in the atmosphere. Natural sources of GHGs include the respiration of humans, animals and plants, decomposition of organic matter, and evaporation from the oceans. Anthropogenic sources include the combustion of fossil fuels, waste treatment, and agricultural processes. The following are GHGs that are widely accepted as the principal contributors to human-induced global climate change:

- Carbon dioxide (CO₂)
- Methane (CH₄)
- Nitrous oxide (N₂O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur Hexafluoride (SF₆)
- Nitrogen Trifluoride (NF₃)

Emissions of CO₂ are byproducts of fossil fuel combustion. CH₄ is the main component of natural gas and is associated with agricultural practices and landfills. N₂O is a colorless GHG that results from industrial processes, vehicle emissions, and agricultural practices. HFCs are synthetic chemicals used as a substitute for chlorofluorocarbons in automobile air conditioners and refrigerants. PFCs are produced as a byproduct of various industrial processes associated with aluminum production and the manufacturing of semiconductors. SF₆ is an inorganic, odorless, colorless, nontoxic, nonflammable GHG used for insulation in electric power transmission and distribution equipment, and in semiconductor manufacturing. NF₃ is used in the electronics industry during the manufacturing of consumer items, including photovoltaic solar panels and liquid-crystal-display (i.e., LCD) television screens.

Global warming potential (GWP) is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to CO₂. The GWP of a GHG is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time (i.e., lifetime) that the gas remains in the atmosphere ("atmospheric lifetime"). The reference gas for GWP is CO₂; therefore, CO₂ has a GWP of 1. The other main GHGs that have been attributed to human activity include CH₄, which has a GWP of 25, and N₂O, which has a GWP of 298 (IPCC 2013). For example, 1 ton of CH₄ has the same contribution to the greenhouse effect as approximately 25 tons of CO₂. GHGs with lower emissions rates than CO₂

may still contribute to climate change, because they are more effective at absorbing outgoing infrared radiation than CO₂ (i.e., high GWP). The concept of CO₂-equivalents (CO₂e) is used to account for the different GWP potentials of GHGs to absorb infrared radiation.

Although the exact lifetime of any particular GHG molecule is dependent on multiple variables, it is understood by scientists who study atmospheric chemistry that more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, and other forms of sequestration. GHG emissions related to human activities have been determined as “extremely likely” to be responsible (indicating 95 percent certainty) for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth’s atmosphere and oceans, with corresponding effects on global circulation patterns and climate (ARB 2014a). The quantity of GHGs that it takes to ultimately result in climate change is not precisely known; however, no single project is expected to measurably contribute to a noticeable incremental change in the global average temperature, or to a global, local, or micro climate.

2.2 GHG EMISSION SOURCES

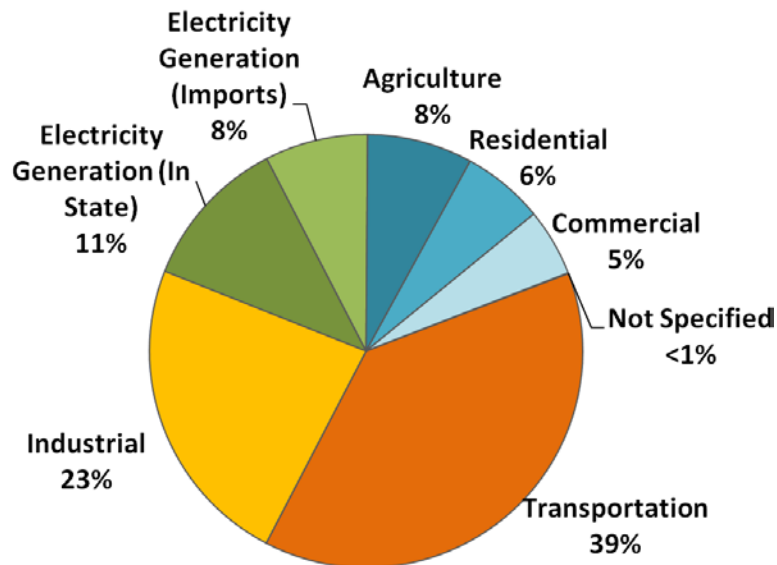
GHG emissions contributing to global climate change are attributable in large part to human activities associated with the transportation, industrial/manufacturing, electric utility, residential, commercial, and agricultural categories. Emissions of CO₂ are byproducts of fossil fuel combustion, and CH₄, a highly potent GHG, is the primary component in natural gas and is associated with agricultural practices and landfills. N₂O is also largely attributable to agricultural practices and soil management.

For purposes of accounting for and regulating GHG emissions, sources of GHG emissions are grouped into emission categories. The California Air Resources Board (ARB) identifies the following main GHG emission categories that account for most anthropogenic GHG emissions generated within California:

- *Transportation:* On-road motor vehicles, recreational vehicles, aviation, ships, and rail
- *Electric Power:* Use and production of electrical energy
- *Industrial:* Mainly stationary sources (e.g., boilers and engines) associated with process emissions
- *Commercial and Residential:* Area sources, such as landscape maintenance equipment, fireplaces, and consumption of natural gas for space and water heating
- *Agriculture:* Agricultural sources that include off-road farm equipment; irrigation pumps; crop residue burning (CO₂); and emissions from flooded soils, livestock waste, crop residue decomposition, and fertilizer volatilization (CH₄ and N₂O)
- *High GWP:* Refrigerants for stationary and mobile-source air conditioning and refrigeration, electrical insulation (e.g., SF₆), and various consumer products that use pressurized containers
- *Recycling and Waste:* Waste management facilities and landfills; primary emissions are CO₂ from combustion and CH₄ from landfills and wastewater treatment

California

ARB performs an annual GHG inventory for emissions and sinks of the six major GHGs. As shown in Figure 2, California produced 440 million metric tons (MMT) of CO₂e in 2015. Combustion of fossil fuel in the transportation category was the single largest source of California's GHG emissions in 2015, accounting for 39 percent of total GHG emissions in the state. The transportation category was followed by the industrial category, which accounts for 23 percent of total GHG emissions in California, the electric power generation category (including in-state and out-of-state sources), which accounts for 19 percent of total GHG emissions in California, and the agriculture sector which accounts for 8 percent of the state's total GHG emissions (ARB 2017).



Source: ARB 2017.

Figure 2. 2015 California GHG Emissions by Category

San Diego County

The University of San Diego School of Law, Energy Policy Initiative Center, prepared a GHG inventory for San Diego County in 2008. The inventory was updated in 2013 using the best available data and following the U.S. Community Protocol for Accounting and Reporting of GHG Emissions (University of San Diego 2013). Total GHG emissions in San Diego County in 2010 were estimated to be 32.1 MMT of CO₂e. This represents a 9 percent increase compared to 1990 emissions levels of 29 MMT CO₂e (University of San Diego 2013).

Transportation is the largest emissions sector, accounting for approximately 14 MMT of CO₂e, or 43 percent of total emissions. Energy consumption, including electricity and natural gas use, is the next largest source of emissions, at 33 percent of the total.

City of San Diego

The City of San Diego emitted approximately 15.5 million tons (MT) of GHGs in 1990 (City of San Diego 2005). Citywide emission levels were previously projected to result in an increase to 22.5 MT per year by 2010. The most recent GHG inventory for the year 2015 estimated the total emissions at 10.8 MMT CO₂e per year (City of San Diego 2016). Transportation is the largest emissions sector, accounting for approximately 54 percent of total emissions. Energy consumption is the next largest source of emissions, at 44 percent of the total. Accounting for future population and economic growth, the City estimates that GHG emissions will increase to approximately 14.1 MMT CO₂e in 2020 and 16.7 MMT CO₂e in 2035 (City of San Diego 2016).

2.3 GLOBAL CLIMATE TRENDS AND ASSOCIATED IMPACTS

Trends of Climate Change

The Intergovernmental Panel on Climate Change (IPCC) concluded that variations in natural phenomena, such as solar radiation and volcanoes, produced most of the warming of the earth from pre-industrial times to 1950. These variations in natural phenomena also had a small cooling effect. From 1950 to the present, increasing GHG concentrations resulting from human activity, such as fossil fuel burning and deforestation, have been responsible for most of the observed temperature increase.

Global surface temperature has increased by approximately 1.53 degrees Fahrenheit (°F) over the last 140 years (IPCC 2013); however, the rate of increase in global average surface temperature has not been consistent. The last three decades have warmed at a much faster rate per decade (IPCC 2013).

During the same period when increased global warming has occurred, many other changes have occurred in other natural systems. Sea levels have risen; precipitation patterns throughout the world have shifted, with some areas becoming wetter and others drier; snowlines have risen in elevation, resulting in changes to the snowpack, runoff, and water storage; and numerous other conditions have been observed. Although it is difficult to prove a definitive cause-and-effect relationship between global warming and other observed changes to natural systems, there is a high level of confidence in the scientific community that these changes are a direct result of increased global temperatures caused by the increased presence of GHGs in the atmosphere (IPCC 2013).

Additional changes related to climate change can be expected by the year 2050 and on to the end of the century, including the following:

- California's mean temperature may rise by 2.7°F by 2050 and by 4.1°F to 8.6°F by the end of the century (CEC 2012). Temperatures in San Diego County may rise by 3.2°F to 5.8°F during that same period (CEC 2016).
- A consistent rise in sea level has been recorded worldwide over the last 100 years. Rising average sea level over the past century has been attributed primarily to warming of the world's oceans, the related thermal expansion of ocean waters, and the addition of water to the world's oceans from the melting of land-based polar ice (IPCC 2007). Sea level rise is expected to continue, and the most recent climate science report, Sea Level Rise for the Coasts of California,

Oregon, and Washington: Past, Present, and Future, has estimated that sea levels along the U.S. Pacific coast will increase by up to 66 inches by 2100 (NRC 2012). The project site would not be subject to flooding as a result of climate-change-related sea level rise.

- Various California climate models provide mixed results regarding forecasted changes in total annual precipitation in the state through the end of this century. However, recent projections suggest that 30-year statewide average precipitation will decline by more than 10% (CEC 2012).
- Historically, extreme warm temperatures in the San Diego region have mostly occurred in July and August, but as climate warming continues, the occurrences of these events will likely begin in June and could continue to take place into September. All simulations indicate that hot daytime and nighttime temperatures (heat waves) will increase in frequency, magnitude, and duration (San Diego Foundation 2008).

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SECTION 3 METHODOLOGY

GHG emissions due to the construction and operation of future projects under the proposed Old Town CPU were calculated using California Emissions Estimator Model (CalEEMod) version 2016.3.1. The emissions sources include construction (off-road vehicles), mobile (on road vehicles), area (fireplaces, consumer products [cleansers, aerosols, and solvents], landscape maintenance equipment, and architectural coatings), water and wastewater, and solid waste sources. As explained previously, GHG emissions are estimated in terms of CO₂e to account for the different GWP potentials of GHGs. Where project-specific data was not available, model inputs were based on default CalEEMod estimates as explained in more detail below.

Construction Emissions

At a program level, it would be speculative to estimate the schedule and construction requirements of individual projects that could occur in the Old Town CPU areas. In addition, GHG emissions would occur based on the entire construction activities through 2035. Thus, this analysis relies on the methodology used in the San Diego County Updated Greenhouse Gas Inventory (San Diego County 2013), which forecasts that between 2015 and 2035 construction emissions would comprise roughly 2.1 percent of total GHG emissions within the County of San Diego. Therefore, based on the operational GHG emissions estimated in Table 1, total construction emissions for the proposed Old Town CPU would be ~~609~~ approximately 730 MT CO₂e.

Operation Emissions

In order to analyze the GHG emissions associated with implementation of the proposed Old Town CPU and associated discretionary actions, an inventory was developed based on the land use designations associated with the adopted and proposed Community Plans. Considering that the adopted Community Plan projects have not yet been completed at the time of this analysis, an analysis of existing emissions compared with the proposed Old Town CPU improvements would not accurately disclose the impacts of the project. Rather, comparing GHG emissions from future operations with the adopted Community Plan and the proposed Old Town CPU provides the best indicator of the project's long-term effect on GHG emissions. Therefore, the analysis of the proposed Old Town CPU and associated discretionary actions is based on the net change in future GHG emissions estimates derived from the adopted Community Plan.

As compared to the existing land uses, the proposed Old Town CPU and associated discretionary actions would reduce institutional land uses while increasing the development of commercial uses and multi-family dwelling units. This change represents an increase in land use types and density in the Community Plan area. ~~The proposed Old Town CPU and associated discretionary actions would change the planned land use mix as follows:~~

- ~~• Increase the projected number of multi-family residential units by approximately 26 percent;~~
- ~~• Decrease the projected number of single-family residential units by approximately 35 percent;~~
- ~~• Increase the amount of land designated for commercial development by 59 percent; and~~
- ~~• Decrease the amount of land designated for institutional development by 48 percent.~~

The following subsections describe the assumptions and methodology used for the mobile, energy, area, water and wastewater, and solid waste emission sources.

Mobile Source Emissions

GHG emissions from vehicles are calculated based on the vehicle type, the trip rate, and trip length for each land use. Mobile source emissions were estimated based on the vehicle miles traveled (VMT) for the area estimated in the TIS (Chen Ryan 2017). GHG emissions generated from mobile sources were estimated based on CARB's Emission Factor (EMFAC2014) model. EMFAC2014 includes GHG reducing effects from the implementation of Pavley I (Clean Car Standards) and the Low Carbon Fuel Standard, and are thus considered in the calculation of emissions.

The proposed Old Town CPU encourages increased development diversity by increasing commercial and multi-family land uses in certain areas, decreasing the number of planned institutional land uses. The proposed Old Town CPU and associated discretionary actions proposes an increase in multi-family residences in close proximity to transit and existing commercial uses.

Energy Source Emissions

CalEEMod estimates GHG emissions from energy use by multiplying average rates of residential and non-residential energy consumption by the number of residential units and non-residential square footage to obtain total projected energy use. This value is then multiplied by electricity and natural gas GHG emission factors applicable to the project location and utility provider.

Building energy use is typically divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as plug-in appliances. In California, Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting. Non-building energy use, or "plug-in energy use," can be further subdivided by specific end-use (refrigeration, cooking, office equipment, etc.).

Energy consumption values are based on the California Energy Commission (CEC) sponsored *California Commercial End Use Survey and Residential Appliance Saturation Survey* studies, which identify energy use by building type and climate zone. CalEEMod 2016.3.1 is based on the 2013 Title 24 energy code (Part 6 of the Building Code).

The Old Town CPU area would be served by San Diego Gas & Electric (SDG&E). Therefore, SDG&E's specific energy intensity factors (i.e., the amount of CO₂, CH₄, and N₂O per kilowatt-hour) are used in the calculations of GHG emissions. The state mandate for renewable energy is 33 percent by 2020 and 50 percent by 2030 under the RPS. However, the analysis conservatively assumes the same RPS as existing conditions.

Area Source Emissions

Area sources include GHG emissions that would occur from the use of landscaping and related equipment. The use of landscape equipment emits GHGs associated with the equipment's fuel combustion. Emissions from landscape maintenance equipment within CalEEMod are based on

statewide average number of usage hours, number of dwelling units, and non-residential square footage. However, statewide landscape equipment usage on a per dwelling unit or per square foot basis is not representative of the urban and higher-density land uses of the Old Town Community Plan area. For example, landscape equipment usage would not increase in proportion to the increase in units for high density multi-family residential and square footage for multi-story buildings. Higher density buildings are typically multi-story and thus would not result in an increase in landscape areas. Therefore, emissions associated with landscape equipment were calculated off-model and based on San Diego County annual emission estimates for lawn and garden equipment for the San Diego Air Basin and acres of development for the San Diego region. Additional details are available in Appendix A.

Water and Wastewater Emissions

The amount of water used and wastewater generated by a project has indirect GHG emissions associated with it. These emissions are a result of the energy used to supply, distribute, and treat the water and wastewater. In addition to the indirect GHG emissions associated with energy use, wastewater treatment can directly emit both CH₄ and N₂O.

The indoor and outdoor water use consumption data in CalEEMod for each land use subtype comes from the Pacific Institute's Waste Not, Want Not: The Potential for Urban Water Conservation in California 2003 and the American Water Works Association Research Foundation's Commercial and Institutional End Uses of Water 2000. Based on those reports, a percentage of total water consumption was dedicated to landscape irrigation, which is used to determine outdoor water use. Wastewater generation was similarly based on a reported percentage of total indoor water use (ARB 2008).

In addition to water reductions under the California Green Building Standards Code, the GHG emissions from the energy used to transport the water are affected by RPS. As discussed previously, the analysis conservatively assumes existing RPS.

Solid Waste Emissions

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. To calculate the GHG emissions generated by disposing of solid waste for the project, CalEEMod uses waste disposal rates identified by California Department of Resources Recycling and Recovery to calculate the total volume of solid waste. The methods for quantifying GHG emissions from solid waste are based on the Intergovernmental Panel on Climate Change (IPCC) method using the degradable organic content of waste. GHG emissions associated with the project's waste disposal were calculated using these parameters. No solid waste reductions were modeled.

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**SECTION 4
PROJECT IMPACTS**

Based on the methodology summarized above, GHG emissions were calculated for the land uses of the adopted Community Plan (in 2035), and the land uses of the proposed Old Town CPU and associated discretionary actions (in 2035). Table 1 summarizes the GHG emissions under each scenario. Appendix A contains additional methodology and modeling details.

**Table 1
GHG Emissions for the Old Town Community Plan Area
(MT CO₂e per Year)**

Emission Source	Existing	Adopted Community Plan	Proposed CPU	Difference (Proposed – Adopted)
Mobile Sources	25,025	17,300	17,654	355
Energy Use	9,182	40,533	9,802	(731)
Area Sources	7294	388738	4352,905	462,167
Solid Waste Disposal	767	896789	816929	(80) ⁺ 140
Water Use	1,823	4,985	4,798	(186)
Construction	n/a	653652	644730	(13)78
TOTAL	37,5264	31,75531,696	35,47131,145	(609)3,775

Source: Estimated by AECOM in 2018⁷.

Note: Totals may not add due to rounding.

⁺ Solid waste disposal associated with GHG emissions decrease based on changes in land use from the adopted Community Plan to the proposed CPU. Waste generation rates vary for each land use; the largest decrease in solid waste is a result from the reduction in some existing industrial uses. Area source emissions include emissions associated with hearths and landscape maintenance equipment.

As shown in the Table 1, implementation of the proposed Old Town CPU and associated discretionary actions would result in a ~~decrease~~ net increase in GHG emissions of ~~609~~ 3,775 MT CO₂e per year when compared to the emissions that would occur under the adopted Community Plan.

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SECTION 5 REFERENCES

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APPENDIX A
CALEEMOD MODELING DATA

Old Town Emission Estimates - Greenhouse Gas Emissions

Operations - Proposed Plan

Pollutant	MT CO2e	Percent
Hearth	2,893.04	8.16%
Residential Landscaping	0.88	0.00%
Commercial Landscaping	10.73	0.03%
Energy Sources	11,066.27	31.20%
Waste	929.37	2.62%
Water	2,187.20	6.17%
Mobile Sources	17,654.08	49.77%
Construction	729.57	2.06%
Proposed Plan Total	35,471.15	100%

Operations - Adopted Plan

Pollutant	MT CO2e	Percent
Hearth	725.93	2.29%
Residential Landscaping	0.89	0.00%
Commercial Landscaping	10.72	0.03%
Energy Sources	10,319.05	32.56%
Waste	789.23	2.49%
Water	1,898.63	5.99%
Mobile Sources	17,299.58	54.58%
Construction	651.92	2.06%
Adopted Plan Total	31,695.96	100%

Net Change	MT CO2e
Proposed Plan	35,471.15
Adopted Plan	31,695.96
Net Change	3,775.19

Operations - Existing

Pollutant	MT CO2e
Hearth	717.74
Residential Landscaping	0.88
Commercial Landscaping	10.72
Energy Sources	9,181.94
Waste	767.29
Water	1,823.48
Mobile Sources	25,024.40
Proposed Plan Total	37,526.45

Difference by Emission Source	
Hearth	2,167.10
Landscaping	0.00
Energy	747.22
Waste	140.14
Water	288.58
Mobile	354.50
Construction	77.65
Total	3,775.19

GHG Emissions - Landscaping

San Diego Air Basin Lawn and Garden Equipment Emissions

	MMT CO2e	MT CO2e
Lawn and Garden	0.0930	93,000

Source:

<https://www.sandiegocounty.gov/content/dam/sdc/pds/advance/cap/publicreviewdocuments/CAPfilespublicreview/Appendix%20A%20Greenhouse%20Gas%20Emissions%20Inventory%20and%20Projections.pdf>

San Diego County Total Acres	2,200,382	acres
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Source: [http://www.sdforward.com/pdfs/EIR_final/Section 4.11 Land Use.pdf](http://www.sdforward.com/pdfs/EIR_final/Section%204.11%20Land%20Use.pdf)

SD County GHG Landscaping Factor per Acre	0.04227	MT CO2e/Acre
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Old Town Community Plan Landscaping Emissions

Proposed Plan	Acres	GHG Emissions
Residential	20.80	0.88
Non-residential	253.90	10.73

Adopted Plan	Acres	GHG Emissions
Residential	21.00	0.89
Non-residential	253.70	10.72

Existing	Acres	GHG Emissions
Residential	20.90	0.8833
Non-residential	253.70	10.7227

Old Town Proposed Plan Operations - San Diego County, Annual

**Old Town Proposed Plan Operations
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	565.73	1000sqft	22.03	565,730.00	0
Government Office Building	45.62	1000sqft	2.40	45,620.00	0
Industrial Park	3.88	1000sqft	99.50	3,882.00	0
Unrefrigerated Warehouse-No Rail	20.00	1000sqft	0.40	20,000.00	0
Parking Lot	2.70	Acre	2.70	0.00	0
City Park	65.70	Acre	65.70	0.00	0
Hotel	272.00	Room	10.40	394,575.00	0
Apartments Mid Rise	758.00	Dwelling Unit	15.55	606,400.00	1311
Apartments Mid Rise	48.00	Dwelling Unit	1.87	48,000.00	83
Apartments Mid Rise	520.00	Dwelling Unit	15.80	520,000.00	899
Single Family Housing	79.00	Dwelling Unit	5.00	142,200.00	137
Strip Mall	414.43	1000sqft	32.95	414,429.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

Old Town Proposed Plan Operations - San Diego County, Annual

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Proposed Plan at build-out 2035.

Land Use - Retail land use includes tourist attraction acreage and square footage. Industrial land use includes transit center, communication/utilities, and transportation acreage and square footage.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Trips and VMT - Operations only run.

Architectural Coating - Operations only run.

Vehicle Trips - Mobile sources calculated separately.

Woodstoves - Assumes no woodstoves or wood fireplaces.

Consumer Products - SD County specific EF.

Area Coating - SDAPCD Rule 67.0.1

Area Mitigation - SDAPCD Rule 67.0.1

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	722,118.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,166,354.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	888,705.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,666,115.00	0.00
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblConstructionPhase	NumDays	330.00	1.00
tblConstructionPhase	NumDays	330.00	1.00
tblConsumerProducts	ROG_EF	2.14E-05	1.65E-05
tblFireplaces	NumberGas	729.30	1,193.40
tblFireplaces	NumberGas	43.45	71.10

Old Town Proposed Plan Operations - San Diego County, Annual

tblFireplaces	NumberWood	464.10	0.00
tblFireplaces	NumberWood	27.65	0.00
tblLandUse	BuildingSpaceSquareFeet	3,880.00	3,882.00
tblLandUse	BuildingSpaceSquareFeet	117,612.00	0.00
tblLandUse	BuildingSpaceSquareFeet	394,944.00	394,575.00
tblLandUse	BuildingSpaceSquareFeet	758,000.00	606,400.00
tblLandUse	BuildingSpaceSquareFeet	414,430.00	414,429.00
tblLandUse	GreenSpaceSquareFeet	2,861,892.00	0.00
tblLandUse	LandUseSquareFeet	3,880.00	3,882.00
tblLandUse	LandUseSquareFeet	117,612.00	0.00
tblLandUse	LandUseSquareFeet	2,861,892.00	0.00
tblLandUse	LandUseSquareFeet	394,944.00	394,575.00
tblLandUse	LandUseSquareFeet	758,000.00	606,400.00
tblLandUse	LandUseSquareFeet	414,430.00	414,429.00
tblLandUse	LotAcreage	12.99	22.03
tblLandUse	LotAcreage	1.05	2.40
tblLandUse	LotAcreage	0.09	99.50
tblLandUse	LotAcreage	0.46	0.40
tblLandUse	LotAcreage	9.07	10.40
tblLandUse	LotAcreage	1.26	1.87
tblLandUse	LotAcreage	13.68	15.80
tblLandUse	LotAcreage	19.95	15.55
tblLandUse	LotAcreage	25.65	5.00
tblLandUse	LotAcreage	9.51	32.95
tblLandUse	Population	137.00	83.00
tblLandUse	Population	1,487.00	899.00
tblLandUse	Population	2,168.00	1,311.00

Old Town Proposed Plan Operations - San Diego County, Annual

tblLandUse	Population	226.00	137.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblTripsAndVMT	WorkerTripNumber	297.00	0.00
tblVehicleTrips	ST_TR	6.39	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	5.86	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	1.68	0.00

Old Town Proposed Plan Operations - San Diego County, Annual

tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWoodstoves	NumberCatalytic	66.30	0.00
tblWoodstoves	NumberCatalytic	3.95	0.00
tblWoodstoves	NumberNoncatalytic	66.30	0.00
tblWoodstoves	NumberNoncatalytic	3.95	0.00

2.0 Emissions Summary

Old Town Proposed Plan Operations - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-18-2018	9-17-2018	0.0025	0.0025
		Highest	0.0025	0.0025

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	11.4135	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090
Energy	0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	11,021.2079	11,021.2079	0.3867	0.1188	11,066.2726
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	375.1314	0.0000	375.1314	22.1696	0.0000	929.3721
Water						0.0000	0.0000		0.0000	0.0000	77.4967	1,848.2622	1,925.7589	8.0341	0.2033	2,187.2043
Total	11.6862	5.0410	13.2451	0.0313	0.0000	0.4471	0.4471	0.0000	0.4471	0.4471	452.6281	15,762.4816	16,215.1097	30.6618	0.3749	17,093.3580

Old Town Proposed Plan Operations - San Diego County, Annual

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	11.1046	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090
Energy	0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	11,021.2079	11,021.2079	0.3867	0.1188	11,066.2726
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	375.1314	0.0000	375.1314	22.1696	0.0000	929.3721
Water						0.0000	0.0000		0.0000	0.0000	77.4967	1,848.2622	1,925.7589	8.0341	0.2033	2,187.2043
Total	11.3772	5.0410	13.2451	0.0313	0.0000	0.4471	0.4471	0.0000	0.4471	0.4471	452.6281	15,762.4816	16,215.1097	30.6618	0.3749	17,093.3580

	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
Percent Reduction	2.64	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/18/2018	6/18/2018	5	1	
2	Architectural Coating	Architectural Coating	6/19/2018	6/19/2018	5	1	

Old Town Proposed Plan Operations - San Diego County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.7

Residential Indoor: 0; Residential Outdoor: 0; 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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Paving	Pavers	0	0.00	130	0.42
Paving	Paving Equipment	0	0.00	132	0.36
Paving	Rollers	0	0.00	80	0.38

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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Old Town Proposed Plan Operations - San Diego County, Annual

3.3 Architectural Coating - 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					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Old Town Proposed Plan Operations - San Diego County, Annual

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

Old Town Proposed Plan Operations - San Diego County, Annual

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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	41.60	18.80	39.60	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Old Town Proposed Plan Operations - San Diego County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Old Town Proposed Plan Operations - San Diego County, Annual

	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	8,322.6801	8,322.6801	0.3350	0.0693	8,351.7088
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,322.6801	8,322.6801	0.3350	0.0693	8,351.7088
NaturalGas Mitigated	0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	2,698.5278	2,698.5278	0.0517	0.0495	2,714.5638
NaturalGas Unmitigated	0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	2,698.5278	2,698.5278	0.0517	0.0495	2,714.5638

Old Town Proposed Plan Operations - San Diego County, Annual

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	4.61132e+006	0.0249	0.2125	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	246.0778	246.0778	4.7200e-003	4.5100e-003	247.5401
Apartments Mid Rise	425661	2.3000e-003	0.0196	8.3500e-003	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7149	22.7149	4.4000e-004	4.2000e-004	22.8499
Apartments Mid Rise	6.72189e+006	0.0363	0.3097	0.1318	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.7057	358.7057	6.8800e-003	6.5800e-003	360.8373
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.14673e+007	0.0618	0.5621	0.4722	3.3700e-003		0.0427	0.0427		0.0427	0.0427	0.0000	611.9413	611.9413	0.0117	0.0112	615.5778
Government Office Building	924717	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3464	49.3464	9.5000e-004	9.0000e-004	49.6397
Hotel	2.3126e+007	0.1247	1.1336	0.9523	6.8000e-003		0.0862	0.0862		0.0862	0.0862	0.0000	1,234.0936	1,234.0936	0.0237	0.0226	1,241.4272
Industrial Park	78688.1	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.1991	4.1991	8.0000e-005	8.0000e-005	4.2241
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.25091e+006	0.0121	0.1037	0.0441	6.6000e-004		8.3900e-003	8.3900e-003		8.3900e-003	8.3900e-003	0.0000	120.1172	120.1172	2.3000e-003	2.2000e-003	120.8310
Strip Mall	928321	5.0100e-003	0.0455	0.0382	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5387	49.5387	9.5000e-004	9.1000e-004	49.8331
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	2,698.5278	2,698.5278	0.0517	0.0495	2,714.5638

Old Town Proposed Plan Operations - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

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	4.61132e+006	0.0249	0.2125	0.0904	1.3600e-003		0.0172	0.0172		0.0172	0.0172	0.0000	246.0778	246.0778	4.7200e-003	4.5100e-003	247.5401
Apartments Mid Rise	425661	2.3000e-003	0.0196	8.3500e-003	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7149	22.7149	4.4000e-004	4.2000e-004	22.8499
Apartments Mid Rise	6.72189e+006	0.0363	0.3097	0.1318	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.7057	358.7057	6.8800e-003	6.5800e-003	360.8373
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.14673e+007	0.0618	0.5621	0.4722	3.3700e-003		0.0427	0.0427		0.0427	0.0427	0.0000	611.9413	611.9413	0.0117	0.0112	615.5778
Government Office Building	924717	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3464	49.3464	9.5000e-004	9.0000e-004	49.6397
Hotel	2.3126e+007	0.1247	1.1336	0.9523	6.8000e-003		0.0862	0.0862		0.0862	0.0862	0.0000	1,234.0936	1,234.0936	0.0237	0.0226	1,241.4272
Industrial Park	78688.1	4.2000e-004	3.8600e-003	3.2400e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.1991	4.1991	8.0000e-005	8.0000e-005	4.2241
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.25091e+006	0.0121	0.1037	0.0441	6.6000e-004		8.3900e-003	8.3900e-003		8.3900e-003	8.3900e-003	0.0000	120.1172	120.1172	2.3000e-003	2.2000e-003	120.8310
Strip Mall	928321	5.0100e-003	0.0455	0.0382	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5387	49.5387	9.5000e-004	9.1000e-004	49.8331
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2727	2.4376	1.7801	0.0149		0.1884	0.1884		0.1884	0.1884	0.0000	2,698.5278	2,698.5278	0.0517	0.0495	2,714.5638

Old Town Proposed Plan Operations - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.21802e+006	724.8696	0.0292	6.0400e-003	727.3978
Apartments Mid Rise	204741	66.9110	2.6900e-003	5.6000e-004	67.1444
Apartments Mid Rise	3.2332e+006	1,056.6368	0.0425	8.8000e-003	1,060.3222
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.78444e+006	2,544.0248	0.1024	0.0212	2,552.8981
Government Office Building	627731	205.1481	8.2600e-003	1.7100e-003	205.8636
Hotel	5.2439e+006	1,713.7531	0.0690	0.0143	1,719.7305
Industrial Park	53416.3	17.4569	7.0000e-004	1.5000e-004	17.5178
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	684470	223.6909	9.0000e-003	1.8600e-003	224.4711
Strip Mall	5.34199e+006	1,745.8091	0.0703	0.0145	1,751.8983
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		8,322.6801	0.3350	0.0693	8,351.7089

Old Town Proposed Plan Operations - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.21802e+006	724.8696	0.0292	6.0400e-003	727.3978
Apartments Mid Rise	204741	66.9110	2.6900e-003	5.6000e-004	67.1444
Apartments Mid Rise	3.2332e+006	1,056.6368	0.0425	8.8000e-003	1,060.3222
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.78444e+006	2,544.0248	0.1024	0.0212	2,552.8981
Government Office Building	627731	205.1481	8.2600e-003	1.7100e-003	205.8636
Hotel	5.2439e+006	1,713.7531	0.0690	0.0143	1,719.7305
Industrial Park	53416.3	17.4569	7.0000e-004	1.5000e-004	17.5178
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	684470	223.6909	9.0000e-003	1.8600e-003	224.4711
Strip Mall	5.34199e+006	1,745.8091	0.0703	0.0145	1,751.8983
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		8,322.6801	0.3350	0.0693	8,351.7089

6.0 Area Detail

Old Town Proposed Plan Operations - San Diego County, Annual

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

	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	11.1046	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090
Unmitigated	11.4135	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090

Old Town Proposed Plan Operations - San Diego County, Annual

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	2.4973					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.3136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2906	2.4833	1.0567	0.0159		0.2008	0.2008		0.2008	0.2008	0.0000	2,875.9458	2,875.9458	0.0551	0.0527	2,893.0361
Landscaping	0.3120	0.1201	10.4083	5.5000e-004		0.0579	0.0579		0.0579	0.0579	0.0000	17.0658	17.0658	0.0163	0.0000	17.4729
Total	11.4135	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090

Old Town Proposed Plan Operations - San Diego County, Annual

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	2.1884					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.3136					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2906	2.4833	1.0567	0.0159		0.2008	0.2008		0.2008	0.2008	0.0000	2,875.9458	2,875.9458	0.0551	0.0527	2,893.0361
Landscaping	0.3120	0.1201	10.4083	5.5000e-004		0.0579	0.0579		0.0579	0.0579	0.0000	17.0658	17.0658	0.0163	0.0000	17.4729
Total	11.1046	2.6034	11.4651	0.0164		0.2587	0.2587		0.2587	0.2587	0.0000	2,893.0115	2,893.0115	0.0714	0.0527	2,910.5090

7.0 Water Detail

7.1 Mitigation Measures Water

Old Town Proposed Plan Operations - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,925.758 9	8.0341	0.2033	2,187.204 3
Unmitigated	1,925.758 9	8.0341	0.2033	2,187.204 3

Old Town Proposed Plan Operations - San Diego County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	86.3942 / 54.4659	592.8063	2.8379	0.0712	684.9660
City Park	0 / 78.2803	284.2238	0.0114	2.3700e-003	285.2151
General Office Building	100.549 / 61.627	683.5330	3.3026	0.0828	790.7700
Government Office Building	9.06285 / 5.55465	61.6092	0.2977	7.4600e-003	71.2748
Hotel	6.89976 / 0.76664	34.3336	0.2261	5.5800e-003	41.6484
Industrial Park	0.89725 / 0	4.1028	0.0294	7.2000e-004	5.0528
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.14717 / 3.24495	35.3180	0.1691	4.2400e-003	40.8087
Strip Mall	30.6979 / 18.8148	208.6838	1.0083	0.0253	241.4234
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,925.7589	8.0341	0.2033	2,187.2043

Old Town Proposed Plan Operations - San Diego County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	86.3942 / 54.4659	592.8063	2.8379	0.0712	684.9660
City Park	0 / 78.2803	284.2238	0.0114	2.3700e-003	285.2151
General Office Building	100.549 / 61.627	683.5330	3.3026	0.0828	790.7700
Government Office Building	9.06285 / 5.55465	61.6092	0.2977	7.4600e-003	71.2748
Hotel	6.89976 / 0.76664	34.3336	0.2261	5.5800e-003	41.6484
Industrial Park	0.89725 / 0	4.1028	0.0294	7.2000e-004	5.0528
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.14717 / 3.24495	35.3180	0.1691	4.2400e-003	40.8087
Strip Mall	30.6979 / 18.8148	208.6838	1.0083	0.0253	241.4234
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,925.7589	8.0341	0.2033	2,187.2043

8.0 Waste Detail

8.1 Mitigation Measures Waste

Old Town Proposed Plan Operations - San Diego County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	375.1314	22.1696	0.0000	929.3721
Unmitigated	375.1314	22.1696	0.0000	929.3721

Old Town Proposed Plan Operations - San Diego County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	609.96	123.8164	7.3173	0.0000	306.7498
City Park	5.65	1.1469	0.0678	0.0000	2.8414
General Office Building	526.13	106.7996	6.3117	0.0000	264.5916
Government Office Building	42.43	8.6129	0.5090	0.0000	21.3381
Hotel	148.92	30.2294	1.7865	0.0000	74.8921
Industrial Park	4.81	0.9764	0.0577	0.0000	2.4190
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	56.17	11.4020	0.6738	0.0000	28.2480
Strip Mall	435.15	88.3315	5.2202	0.0000	218.8376
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		375.1314	22.1696	0.0000	929.3721

Old Town Proposed Plan Operations - San Diego County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	609.96	123.8164	7.3173	0.0000	306.7498
City Park	5.65	1.1469	0.0678	0.0000	2.8414
General Office Building	526.13	106.7996	6.3117	0.0000	264.5916
Government Office Building	42.43	8.6129	0.5090	0.0000	21.3381
Hotel	148.92	30.2294	1.7865	0.0000	74.8921
Industrial Park	4.81	0.9764	0.0577	0.0000	2.4190
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	56.17	11.4020	0.6738	0.0000	28.2480
Strip Mall	435.15	88.3315	5.2202	0.0000	218.8376
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		375.1314	22.1696	0.0000	929.3721

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Old Town Proposed Plan Operations - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Old Town Adopted Plan Operations - San Diego County, Annual

**Old Town Adopted Plan Operations
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	375.43	1000sqft	37.73	375,429.00	0
Apartments Mid Rise	35.00	Dwelling Unit	1.17	28,000.00	60
Hotel	293.00	Room	12.20	426,152.00	0
Government Office Building	88.37	1000sqft	6.90	88,373.00	0
General Office Building	581.52	1000sqft	24.10	581,524.00	0
Parking Lot	2.70	Acre	2.70	0.00	0
City Park	65.70	Acre	65.70	0.00	0
Apartments Mid Rise	413.00	Dwelling Unit	14.30	413,000.00	714
Single Family Housing	122.00	Dwelling Unit	6.70	219,600.00	211
Unrefrigerated Warehouse-No Rail	20.00	1000sqft	0.40	20,000.00	0
Industrial Park	60.24	1000sqft	102.40	60,241.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Old Town Adopted Plan Operations - San Diego County, Annual

Project Characteristics - Adopted Plan at build-out operations.

Land Use - Strip mall land use includes tourist attraction square footage and acreage. Industrial park land use includes transit center, communication/utilities, transportation, military acreages and sq. ftg.

Construction Phase - Operations only run.

Off-road Equipment -

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Vehicle Trips - Mobile sources calculated separately.

Woodstoves - Assumes no woodstoves or wood fireplaces.

Consumer Products - San Diego County specific EF.

Area Coating - SDAPCD Rule 67.0.1

Area Mitigation - SDAPCD Rule 67.0.1

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblConstructionPhase	NumDays	330.00	1.00
tblConstructionPhase	NumDays	180.00	1.00
tblConstructionPhase	PhaseEndDate	6/17/2018	6/18/2018
tblConstructionPhase	PhaseEndDate	6/17/2018	6/18/2018
tblConsumerProducts	ROG_EF	2.14E-05	1.6463E-05
tblFireplaces	NumberGas	246.40	403.20
tblFireplaces	NumberGas	67.10	109.80
tblFireplaces	NumberWood	156.80	0.00
tblFireplaces	NumberWood	42.70	0.00
tblLandUse	BuildingSpaceSquareFeet	35,000.00	28,000.00
tblLandUse	BuildingSpaceSquareFeet	425,436.00	426,152.00
tblLandUse	BuildingSpaceSquareFeet	117,612.00	0.00

Old Town Adopted Plan Operations - San Diego County, Annual

tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	6.39	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	5.86	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.65	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWoodstoves	NumberCatalytic	22.40	0.00

Old Town Adopted Plan Operations - San Diego County, Annual

tblWoodstoves	NumberCatalytic	6.10	0.00
tblWoodstoves	NumberNoncatalytic	22.40	0.00
tblWoodstoves	NumberNoncatalytic	6.10	0.00

2.0 Emissions Summary

Old Town Adopted Plan Operations - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-18-2018	9-17-2018	0.0025	0.0025
		Highest	0.0025	0.0025

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	9.0586	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394
Energy	0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	10,276.9062	10,276.9062	0.3595	0.1113	10,319.0516
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	318.5639	0.0000	318.5639	18.8266	0.0000	789.2285
Water						0.0000	0.0000		0.0000	0.0000	67.2090	1,604.6718	1,671.8808	6.9676	0.1764	1,898.6255
Total	9.3179	3.0078	6.3161	0.0184	0.0000	0.2531	0.2531	0.0000	0.2531	0.2531	385.7729	12,610.1628	12,995.9357	26.1742	0.3009	13,739.9449

Old Town Adopted Plan Operations - San Diego County, Annual

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	8.9036	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394
Energy	0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	10,276.9062	10,276.9062	0.3595	0.1113	10,319.0516
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	318.5639	0.0000	318.5639	18.8266	0.0000	789.2285
Water						0.0000	0.0000		0.0000	0.0000	67.2090	1,604.6718	1,671.8808	6.9676	0.1764	1,898.6255
Total	9.1629	3.0078	6.3161	0.0184	0.0000	0.2531	0.2531	0.0000	0.2531	0.2531	385.7729	12,610.1628	12,995.9357	26.1742	0.3009	13,739.9449

	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
Percent Reduction	1.66	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/18/2018	6/18/2018	5	1	
2	Site Preparation	Site Preparation	6/18/2018	6/18/2018	5	1	

Old Town Adopted Plan Operations - San Diego County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.7

Residential Indoor: 0; Residential Outdoor: 0; 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
Paving	Pavers	0	0.00	130	0.42
Paving	Rollers	0	0.00	80	0.38
Paving	Paving Equipment	0	0.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

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
Paving	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Old Town Adopted Plan Operations - San Diego County, Annual

3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Old Town Adopted Plan Operations - San Diego County, Annual

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Old Town Adopted Plan Operations - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	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	41.60	18.80	39.60	86	11	3
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Government Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Unrefrigerated Warehouse-No Rail	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Industrial Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Old Town Adopted Plan Operations - San Diego County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	7,710.0990	7,710.0990	0.3103	0.0642	7,736.9911
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,710.0990	7,710.0990	0.3103	0.0642	7,736.9911
NaturalGas Mitigated	0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	2,566.8072	2,566.8072	0.0492	0.0471	2,582.0605
NaturalGas Unmitigated	0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	2,566.8072	2,566.8072	0.0492	0.0471	2,582.0605

Old Town Adopted Plan Operations - San Diego County, Annual

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	3.66246e+006	0.0198	0.1688	0.0718	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.4426	195.4426	3.7500e-003	3.5800e-003	196.6040
Apartments Mid Rise	310378	1.6700e-003	0.0143	6.0900e-003	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5629	16.5629	3.2000e-004	3.0000e-004	16.6614
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.17875e+007	0.0636	0.5778	0.4854	3.4700e-003		0.0439	0.0439		0.0439	0.0439	0.0000	629.0254	629.0254	0.0121	0.0115	632.7634
Government Office Building	1.79132e+006	9.6600e-003	0.0878	0.0738	5.3000e-004		6.6700e-003	6.6700e-003		6.6700e-003	6.6700e-003	0.0000	95.5917	95.5917	1.8300e-003	1.7500e-003	96.1598
Hotel	2.49768e+007	0.1347	1.2244	1.0285	7.3500e-003		0.0931	0.0931		0.0931	0.0931	0.0000	1,332.8555	1,332.8555	0.0256	0.0244	1,340.7760
Industrial Park	1.22109e+006	6.5800e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003	0.0000	65.1618	65.1618	1.2500e-003	1.1900e-003	65.5490
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.47609e+006	0.0187	0.1602	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130	0.0000	185.4975	185.4975	3.5600e-003	3.4000e-003	186.5998
Strip Mall	840961	4.5300e-003	0.0412	0.0346	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8769	44.8769	8.6000e-004	8.2000e-004	45.1436
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	2,566.8072	2,566.8072	0.0492	0.0470	2,582.0605

Old Town Adopted Plan Operations - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

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	3.66246e+006	0.0198	0.1688	0.0718	1.0800e-003		0.0136	0.0136		0.0136	0.0136	0.0000	195.4426	195.4426	3.7500e-003	3.5800e-003	196.6040
Apartments Mid Rise	310378	1.6700e-003	0.0143	6.0900e-003	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.5629	16.5629	3.2000e-004	3.0000e-004	16.6614
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.17875e+007	0.0636	0.5778	0.4854	3.4700e-003		0.0439	0.0439		0.0439	0.0439	0.0000	629.0254	629.0254	0.0121	0.0115	632.7634
Government Office Building	1.79132e+006	9.6600e-003	0.0878	0.0738	5.3000e-004		6.6700e-003	6.6700e-003		6.6700e-003	6.6700e-003	0.0000	95.5917	95.5917	1.8300e-003	1.7500e-003	96.1598
Hotel	2.49768e+007	0.1347	1.2244	1.0285	7.3500e-003		0.0931	0.0931		0.0931	0.0931	0.0000	1,332.8555	1,332.8555	0.0256	0.0244	1,340.7760
Industrial Park	1.22109e+006	6.5800e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003	0.0000	65.1618	65.1618	1.2500e-003	1.1900e-003	65.5490
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.47609e+006	0.0187	0.1602	0.0682	1.0200e-003		0.0130	0.0130		0.0130	0.0130	0.0000	185.4975	185.4975	3.5600e-003	3.4000e-003	186.5998
Strip Mall	840961	4.5300e-003	0.0412	0.0346	2.5000e-004		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	44.8769	44.8769	8.6000e-004	8.2000e-004	45.1436
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2594	2.3359	1.8199	0.0142		0.1792	0.1792		0.1792	0.1792	0.0000	2,566.8072	2,566.8072	0.0492	0.0470	2,582.0605

Old Town Adopted Plan Operations - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.76162e+006	575.7137	0.0232	4.7900e-003	577.7217
Apartments Mid Rise	149290	48.7893	1.9600e-003	4.1000e-004	48.9595
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.00177e+006	2,615.0487	0.1053	0.0218	2,624.1697
Government Office Building	1.21601e+006	397.4035	0.0160	3.3100e-003	398.7896
Hotel	5.66356e+006	1,850.9011	0.0745	0.0154	1,857.3569
Industrial Park	828916	270.8971	0.0109	2.2600e-003	271.8419
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.05703e+006	345.4467	0.0139	2.8800e-003	346.6515
Strip Mall	4.83928e+006	1,581.5191	0.0637	0.0132	1,587.0353
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		7,710.0990	0.3103	0.0642	7,736.9911

Old Town Adopted Plan Operations - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.76162e+006	575.7137	0.0232	4.7900e-003	577.7217
Apartments Mid Rise	149290	48.7893	1.9600e-003	4.1000e-004	48.9595
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.00177e+006	2,615.0487	0.1053	0.0218	2,624.1697
Government Office Building	1.21601e+006	397.4035	0.0160	3.3100e-003	398.7896
Hotel	5.66356e+006	1,850.9011	0.0745	0.0154	1,857.3569
Industrial Park	828916	270.8971	0.0109	2.2600e-003	271.8419
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.05703e+006	345.4467	0.0139	2.8800e-003	346.6515
Strip Mall	4.83928e+006	1,581.5191	0.0637	0.0132	1,587.0353
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		7,710.0990	0.3103	0.0642	7,736.9911

6.0 Area Detail

6.1 Mitigation Measures Area

Old Town Adopted Plan Operations - San Diego County, Annual

Use Low VOC Paint - Residential Exterior

	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	8.9036	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394
Unmitigated	9.0586	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394

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	2.2114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0729	0.6231	0.2652	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.6448	721.6448	0.0138	0.0132	725.9331
Landscaping	0.1273	0.0488	4.2310	2.2000e-004		0.0235	0.0235		0.0235	0.0235	0.0000	6.9400	6.9400	6.6500e-003	0.0000	7.1062
Total	9.0586	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394

Old Town Adopted Plan Operations - San Diego County, Annual

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	2.0564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6469					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0729	0.6231	0.2652	3.9800e-003		0.0504	0.0504		0.0504	0.0504	0.0000	721.6448	721.6448	0.0138	0.0132	725.9331
Landscaping	0.1273	0.0488	4.2310	2.2000e-004		0.0235	0.0235		0.0235	0.0235	0.0000	6.9400	6.9400	6.6500e-003	0.0000	7.1062
Total	8.9036	0.6719	4.4962	4.2000e-003		0.0739	0.0739		0.0739	0.0739	0.0000	728.5847	728.5847	0.0205	0.0132	733.0394

7.0 Water Detail

7.1 Mitigation Measures Water

Old Town Adopted Plan Operations - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,671.880 8	6.9676	0.1764	1,898.625 5
Unmitigated	1,671.880 8	6.9676	0.1764	1,898.625 5

Old Town Adopted Plan Operations - San Diego County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	29.189 / 18.4018	200.2845	0.9588	0.0241	231.4214
City Park	0 / 78.2803	284.2238	0.0114	2.3700e-003	285.2151
General Office Building	103.356 / 63.3471	702.6110	3.3948	0.0851	812.8411
Government Office Building	17.5556 / 10.7599	119.3425	0.5766	0.0145	138.0657
Hotel	7.43246 / 0.825829	36.9844	0.2436	6.0100e-003	44.8640
Industrial Park	13.9305 / 0	63.6990	0.4563	0.0112	78.4480
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.94879 / 5.01119	54.5418	0.2611	6.5500e-003	63.0210
Strip Mall	27.809 / 17.0443	189.0456	0.9134	0.0229	218.7042
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,671.8808	6.9676	0.1764	1,898.6255

Old Town Adopted Plan Operations - San Diego County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	29.189 / 18.4018	200.2845	0.9588	0.0241	231.4214
City Park	0 / 78.2803	284.2238	0.0114	2.3700e-003	285.2151
General Office Building	103.356 / 63.3471	702.6110	3.3948	0.0851	812.8411
Government Office Building	17.5556 / 10.7599	119.3425	0.5766	0.0145	138.0657
Hotel	7.43246 / 0.825829	36.9844	0.2436	6.0100e-003	44.8640
Industrial Park	13.9305 / 0	63.6990	0.4563	0.0112	78.4480
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.94879 / 5.01119	54.5418	0.2611	6.5500e-003	63.0210
Strip Mall	27.809 / 17.0443	189.0456	0.9134	0.0229	218.7042
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,671.8808	6.9676	0.1764	1,898.6255

8.0 Waste Detail

8.1 Mitigation Measures Waste

Old Town Adopted Plan Operations - San Diego County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	318.5639	18.8266	0.0000	789.2285
Unmitigated	318.5639	18.8266	0.0000	789.2285

Old Town Adopted Plan Operations - San Diego County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	206.08	41.8324	2.4722	0.0000	103.6379
City Park	5.65	1.1469	0.0678	0.0000	2.8414
General Office Building	540.81	109.7795	6.4878	0.0000	271.9742
Government Office Building	82.18	16.6818	0.9859	0.0000	41.3285
Hotel	160.42	32.5638	1.9245	0.0000	80.6755
Industrial Park	74.7	15.1634	0.8961	0.0000	37.5667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	86.51	17.5608	1.0378	0.0000	43.5060
Strip Mall	394.2	80.0190	4.7290	0.0000	198.2438
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		318.5639	18.8266	0.0000	789.2285

Old Town Adopted Plan Operations - San Diego County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	206.08	41.8324	2.4722	0.0000	103.6379
City Park	5.65	1.1469	0.0678	0.0000	2.8414
General Office Building	540.81	109.7795	6.4878	0.0000	271.9742
Government Office Building	82.18	16.6818	0.9859	0.0000	41.3285
Hotel	160.42	32.5638	1.9245	0.0000	80.6755
Industrial Park	74.7	15.1634	0.8961	0.0000	37.5667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	86.51	17.5608	1.0378	0.0000	43.5060
Strip Mall	394.2	80.0190	4.7290	0.0000	198.2438
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		318.5639	18.8266	0.0000	789.2285

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Old Town Adopted Plan Operations - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Old Town Existing - San Diego County, Annual

Old Town Existing
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	269.22	1000sqft	13.00	269,220.00	0
Industrial Park	60.24	1000sqft	8.70	60,241.00	0
Government Office Building	86.36	1000sqft	6.80	86,359.00	0
Hotel	416.00	Room	29.90	344,405.00	0
General Office Building	590.37	1000sqft	25.00	590,367.00	0
Apartments Low Rise	378.00	Dwelling Unit	12.00	378,000.00	1081
Single Family Housing	96.00	Dwelling Unit	8.90	172,800.00	275
Other Asphalt Surfaces	99.80	Acre	99.80	4,347,288.00	0
Unrefrigerated Warehouse-No Rail	20.00	1000sqft	0.40	20,000.00	0
City Park	67.60	Acre	67.60	7,114.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2015
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Old Town Existing - San Diego County, Annual

Project Characteristics - Existing conditions - operations only run.

Land Use - Industrial land use includes utilities, military, and transit center. Institutional land use excludes former Caltrans building. Hotel land use includes tourist attraction square footage. Other asphalt surfaces land use includes transportation and parking. City park land use includes undeveloped, vacant land, and open space acreage.

Construction Phase - Operations only.

Off-road Equipment - Operations only.

Off-road Equipment - Operations only.

Grading - Operations only.

Trips and VMT - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Operational mobile emissions calculated separately.

Area Coating - SDAPCD Rule 67

Consumer Products - EFs consistent with adopted plan and CPU run.

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	685,296.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,055,888.00	0.00
tblArchitecturalCoating	ConstArea_Parking	260,837.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	371,790.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	1,115,370.00	0.00
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblConstructionPhase	NumDays	330.00	3.00
tblConstructionPhase	NumDays	180.00	3.00
tblConstructionPhase	PhaseEndDate	12/31/2013	1/4/2014
tblConstructionPhase	PhaseEndDate	12/31/2013	1/3/2014
tblLandUse	LandUseSquareFeet	604,032.00	344,405.00
tblLandUse	LandUseSquareFeet	2,944,656.00	7,114.00

Old Town Existing - San Diego County, Annual

tblLandUse	LotAcreage	6.18	13.00
tblLandUse	LotAcreage	1.38	8.70
tblLandUse	LotAcreage	1.98	6.80
tblLandUse	LotAcreage	13.87	29.90
tblLandUse	LotAcreage	13.55	25.00
tblLandUse	LotAcreage	23.63	12.00
tblLandUse	LotAcreage	31.17	8.90
tblLandUse	LotAcreage	0.46	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2015
tblTripsAndVMT	WorkerTripNumber	523.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	1.05	0.00

Old Town Existing - San Diego County, Annual

tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	68.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Old Town Existing - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643
Energy	0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	9,144.2916	9,144.2916	0.3187	0.0996	9,181.9388
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	309.7094	0.0000	309.7094	18.3033	0.0000	767.2919
Water						0.0000	0.0000		0.0000	0.0000	64.0909	1,543.1142	1,607.2051	6.6449	0.1683	1,823.4752
Total	28.5188	2.7521	41.9462	0.0796	0.0000	5.3304	5.3304	0.0000	5.3304	5.3304	863.4223	10,898.5239	11,761.9462	25.7247	0.3064	12,496.3703

Old Town Existing - San Diego County, Annual

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	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643
Energy	0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	9,144.2916	9,144.2916	0.3187	0.0996	9,181.9388
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	309.7094	0.0000	309.7094	18.3033	0.0000	767.2919
Water						0.0000	0.0000		0.0000	0.0000	64.0909	1,543.1142	1,607.2051	6.6449	0.1683	1,823.4752
Total	28.5188	2.7521	41.9462	0.0796	0.0000	5.3304	5.3304	0.0000	5.3304	5.3304	863.4223	10,898.5239	11,761.9462	25.7247	0.3064	12,496.3703

	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
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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2014	1/4/2014	5	3	
2	Site Preparation	Site Preparation	1/1/2014	1/3/2014	5	3	

Old Town Existing - San Diego County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 99.8

Residential Indoor: 0; Residential Outdoor: 0; 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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Old Town Existing - San Diego County, Annual

3.3 Site Preparation - 2014

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

Old Town Existing - San Diego County, Annual

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government Office Building	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Old Town Existing - San Diego County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	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 Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Industrial Park	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Government Office Building	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Hotel	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
General Office Building	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Apartments Low Rise	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Single Family Housing	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Other Asphalt Surfaces	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
Unrefrigerated Warehouse-No Rail	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795
City Park	0.546319	0.051132	0.197604	0.126998	0.023152	0.005783	0.014168	0.021253	0.001850	0.002415	0.006828	0.000702	0.001795

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Old Town Existing - San Diego County, Annual

	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	6,800.613 3	6,800.613 3	0.2737	0.0566	6,824.333 2
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,800.613 3	6,800.613 3	0.2737	0.0566	6,824.333 2
NaturalGas Mitigated	0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.678 3	2,343.678 3	0.0449	0.0430	2,357.605 6
NaturalGas Unmitigated	0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.678 3	2,343.678 3	0.0449	0.0430	2,357.605 6

Old Town Existing - San Diego County, Annual

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 Low Rise	5.42304e+006	0.0292	0.2499	0.1063	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.3939	289.3939	5.5500e-003	5.3100e-003	291.1137
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.19667e+007	0.0645	0.5866	0.4928	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	638.5908	638.5908	0.0122	0.0117	642.3856
Government Office Building	1.7505e+006	9.4400e-003	0.0858	0.0721	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.4132	93.4132	1.7900e-003	1.7100e-003	93.9683
Hotel	2.01856e+007	0.1088	0.9895	0.8312	5.9400e-003		0.0752	0.0752		0.0752	0.0752	0.0000	1,077.1793	1,077.1793	0.0207	0.0198	1,083.5804
Industrial Park	1.22109e+006	6.5800e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003	0.0000	65.1618	65.1618	1.2500e-003	1.1900e-003	65.5490
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	603053	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1812	32.1812	6.2000e-004	5.9000e-004	32.3724
Single Family Housing	2.73528e+006	0.0148	0.1260	0.0536	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.9652	145.9652	2.8000e-003	2.6800e-003	146.8326
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.6783	2,343.6783	0.0449	0.0430	2,357.6056

Old Town Existing - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas

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 Low Rise	5.42304e+006	0.0292	0.2499	0.1063	1.6000e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.3939	289.3939	5.5500e-003	5.3100e-003	291.1137
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.19667e+007	0.0645	0.5866	0.4928	3.5200e-003		0.0446	0.0446		0.0446	0.0446	0.0000	638.5908	638.5908	0.0122	0.0117	642.3856
Government Office Building	1.7505e+006	9.4400e-003	0.0858	0.0721	5.1000e-004		6.5200e-003	6.5200e-003		6.5200e-003	6.5200e-003	0.0000	93.4132	93.4132	1.7900e-003	1.7100e-003	93.9683
Hotel	2.01856e+007	0.1088	0.9895	0.8312	5.9400e-003		0.0752	0.0752		0.0752	0.0752	0.0000	1,077.1793	1,077.1793	0.0207	0.0198	1,083.5804
Industrial Park	1.22109e+006	6.5800e-003	0.0599	0.0503	3.6000e-004		4.5500e-003	4.5500e-003		4.5500e-003	4.5500e-003	0.0000	65.1618	65.1618	1.2500e-003	1.1900e-003	65.5490
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	603053	3.2500e-003	0.0296	0.0248	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1812	32.1812	6.2000e-004	5.9000e-004	32.3724
Single Family Housing	2.73528e+006	0.0148	0.1260	0.0536	8.0000e-004		0.0102	0.0102		0.0102	0.0102	0.0000	145.9652	145.9652	2.8000e-003	2.6800e-003	146.8326
Unrefrigerated Warehouse-No Rail	33600	1.8000e-004	1.6500e-003	1.3800e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.7930	1.7930	3.0000e-005	3.0000e-005	1.8037
Total		0.2368	2.1289	1.6325	0.0129		0.1636	0.1636		0.1636	0.1636	0.0000	2,343.6783	2,343.6783	0.0449	0.0430	2,357.6056

Old Town Existing - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.71474e+006	560.3909	0.0226	4.6700e-003	562.3455
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.12345e+006	2,654.8147	0.1069	0.0221	2,664.0744
Government Office Building	1.1883e+006	388.3468	0.0156	3.2300e-003	389.7013
Hotel	4.57714e+006	1,495.8503	0.0602	0.0125	1,501.0677
Industrial Park	828916	270.8971	0.0109	2.2600e-003	271.8419
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.47025e+006	1,134.1068	0.0457	9.4400e-003	1,138.0624
Single Family Housing	831761	271.8269	0.0109	2.2600e-003	272.7750
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		6,800.6133	0.2737	0.0566	6,824.3332

Old Town Existing - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.71474e+006	560.3909	0.0226	4.6700e-003	562.3455
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	8.12345e+006	2,654.8147	0.1069	0.0221	2,664.0744
Government Office Building	1.1883e+006	388.3468	0.0156	3.2300e-003	389.7013
Hotel	4.57714e+006	1,495.8503	0.0602	0.0125	1,501.0677
Industrial Park	828916	270.8971	0.0109	2.2600e-003	271.8419
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	3.47025e+006	1,134.1068	0.0457	9.4400e-003	1,138.0624
Single Family Housing	831761	271.8269	0.0109	2.2600e-003	272.7750
Unrefrigerated Warehouse-No Rail	74600	24.3799	9.8000e-004	2.0000e-004	24.4650
Total		6,800.6133	0.2737	0.0566	6,824.3332

6.0 Area Detail

6.1 Mitigation Measures Area

Old Town Existing - San Diego County, Annual

	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	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643
Unmitigated	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643

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	2.0840					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	-3.6599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.7417	0.5808	36.7129	0.0665		5.1475	5.1475		5.1475	5.1475	489.6220	205.3403	694.9623	0.4518	0.0385	717.7350
Landscaping	0.1162	0.0424	3.6008	1.9000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	5.7778	5.7778	6.0600e-003	0.0000	5.9294
Total	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643

Old Town Existing - San Diego County, Annual

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	2.0840					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	-3.6599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	29.7417	0.5808	36.7129	0.0665		5.1475	5.1475		5.1475	5.1475	489.6220	205.3403	694.9623	0.4518	0.0385	717.7350
Landscaping	0.1162	0.0424	3.6008	1.9000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	5.7778	5.7778	6.0600e-003	0.0000	5.9294
Total	28.2820	0.6232	40.3137	0.0667		5.1668	5.1668		5.1668	5.1668	489.6220	211.1181	700.7401	0.4579	0.0385	723.6643

7.0 Water Detail

7.1 Mitigation Measures Water

Old Town Existing - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,607.205 1	6.6449	0.1683	1,823.475 2
Unmitigated	1,607.205 1	6.6449	0.1683	1,823.475 2

Old Town Existing - San Diego County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	24.6282 / 15.5265	168.9900	0.8090	0.0203	195.2618
City Park	0 / 80.5441	292.4433	0.0118	2.4400e-003	293.4633
General Office Building	104.929 / 64.3111	713.3038	3.4465	0.0864	825.2115
Government Office Building	17.1563 / 10.5151	116.6280	0.5635	0.0141	134.9253
Hotel	10.5526 / 1.17251	52.5102	0.3458	8.5300e-003	63.6976
Industrial Park	13.9305 / 0	63.6990	0.4563	0.0112	78.4480
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	19.9418 / 12.2224	135.5641	0.6550	0.0164	156.8323
Single Family Housing	6.25479 / 3.94323	42.9181	0.2055	5.1500e-003	49.5903
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,607.205 1	6.6449	0.1683	1,823.475 2

Old Town Existing - San Diego County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	24.6282 / 15.5265	168.9900	0.8090	0.0203	195.2618
City Park	0 / 80.5441	292.4433	0.0118	2.4400e-003	293.4633
General Office Building	104.929 / 64.3111	713.3038	3.4465	0.0864	825.2115
Government Office Building	17.1563 / 10.5151	116.6280	0.5635	0.0141	134.9253
Hotel	10.5526 / 1.17251	52.5102	0.3458	8.5300e-003	63.6976
Industrial Park	13.9305 / 0	63.6990	0.4563	0.0112	78.4480
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	19.9418 / 12.2224	135.5641	0.6550	0.0164	156.8323
Single Family Housing	6.25479 / 3.94323	42.9181	0.2055	5.1500e-003	49.5903
Unrefrigerated Warehouse-No Rail	4.625 / 0	21.1484	0.1515	3.7200e-003	26.0451
Total		1,607.205 1	6.6449	0.1683	1,823.475 2

8.0 Waste Detail

8.1 Mitigation Measures Waste

Old Town Existing - San Diego County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	309.7094	18.3033	0.0000	767.2919
Unmitigated	309.7094	18.3033	0.0000	767.2919

Old Town Existing - San Diego County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	173.88	35.2961	2.0859	0.0000	87.4445
City Park	5.81	1.1794	0.0697	0.0000	2.9219
General Office Building	549.04	111.4502	6.5865	0.0000	276.1131
Government Office Building	80.31	16.3022	0.9634	0.0000	40.3880
Hotel	227.76	46.2332	2.7323	0.0000	114.5409
Industrial Park	74.7	15.1634	0.8961	0.0000	37.5667
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	282.68	57.3815	3.3912	0.0000	142.1602
Single Family Housing	112.75	22.8872	1.3526	0.0000	56.7022
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		309.7094	18.3033	0.0000	767.2919

Old Town Existing - San Diego County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	173.88	35.2961	2.0859	0.0000	87.4445
City Park	5.81	1.1794	0.0697	0.0000	2.9219
General Office Building	549.04	111.4502	6.5865	0.0000	276.1131
Government Office Building	80.31	16.3022	0.9634	0.0000	40.3880
Hotel	227.76	46.2332	2.7323	0.0000	114.5409
Industrial Park	74.7	15.1634	0.8961	0.0000	37.5667
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	282.68	57.3815	3.3912	0.0000	142.1602
Single Family Housing	112.75	22.8872	1.3526	0.0000	56.7022
Unrefrigerated Warehouse-No Rail	18.8	3.8162	0.2255	0.0000	9.4546
Total		309.7094	18.3033	0.0000	767.2919

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Old Town Existing - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Population 2,430 Total VMT 175,097 Total # Auto Trips 61,622 Avg Trip Length 2.8

Vehicle Class	Fuel	Daily VMT (mi)	Emission Factors (g/mile)							Emissions (lb/day)							MT/day
			ROG	CO	NOx	SOx	PM10	PM2.5	CO2	ROG	CO	NOx	SOx	PM10	PM2.5	CO2	
All Other Buses	DSL	74.35	0.0486796	0.256233425	1.313297455	0.01122	0.145807	0.062177	1176.022	0.007979	0.041998	0.215255	0.001838974	0.023898	0.010191	0.087434	
LDA	GAS	91,352.19	0.0123846	0.442190808	0.04789236	0.002061	0.045779	0.018696	205.723	2.494171	89.05445	9.64522	0.415060945	9.21955	3.765233	18.79325	
LDA	DSL	1,254.98	0.0049662	0.149451816	0.010626527	0.001934	0.045785	0.01874	202.5926	0.01374	0.413489	0.0294	0.005351014	0.126673	0.051848	0.254249	
LDA	ELEC	15,537.31	0	0	0	0	0.04475	0.01775	0	0	0	0	0	1.532837	0.607997	0	
LDT1	GAS	6,376.07	0.0075341	0.423794159	0.035598058	0.002332	0.045937	0.018841	232.9267	0.105904	5.957102	0.500387	0.032777908	0.645711	0.26484	1.485157	
LDT1	DSL	3.54	0.0182982	0.191453103	0.093358515	0.002197	0.051097	0.023823	230.0848	0.000143	0.001493	0.000728	1.71281E-05	0.000398	0.000186	0.000814	
LDT1	ELEC	2.80	0	0	0	0	0.04475	0.01775	0	0	0	0	0	0.000276	0.000109	0	
LDT2	GAS	30,907.57	0.0059171	0.396626883	0.02985469	0.002583	0.045791	0.018707	258.1547	0.403181	27.02551	2.03425	0.176022713	3.120105	1.274657	7.978933	
LDT2	DSL	67.78	0.0148814	0.146440668	0.029631561	0.002416	0.048777	0.021602	253.0242	0.002224	0.021883	0.004428	0.000360965	0.007289	0.003228	0.017151	
LHD1	GAS	651.31	0.0140094	0.286395631	0.108314541	0.007931	0.086616	0.03676	793.9993	0.020116	0.411227	0.155526	0.01138731	0.124369	0.052783	0.51714	
LHD1	DSL	1,334.32	0.134292	0.626424343	0.562562952	0.004987	0.100997	0.047773	522.3995	0.395035	1.842699	1.654843	0.014670269	0.297093	0.140531	0.697046	
LHD2	GAS	267.83	0.0068326	0.157595197	0.047486333	0.00879	0.099345	0.04221	880.3641	0.004034	0.093054	0.028039	0.005190362	0.058659	0.024924	0.235791	
LHD2	DSL	657.07	0.1218519	0.543982272	0.155592281	0.005518	0.111529	0.051122	577.9825	0.17651	0.787991	0.225337	0.007992835	0.161557	0.074053	0.379773	
MCY	GAS	971.39	2.3119908	18.30121223	1.141324464	0.002218	0.101819	0.008306	184.8985	4.951144	39.19217	2.444154	0.004749647	0.038954	0.017787	0.179608	
MDV	GAS	16,496.74	0.0085553	0.487083158	0.042936933	0.003442	0.045848	0.01876	344.0752	0.311143	17.71447	1.56155	0.125197781	1.667435	0.682269	5.676117	
MDV	DSL	459.13	0.0057161	0.167229223	0.011635716	0.003174	0.046032	0.018977	332.4955	0.005786	0.16927	0.011778	0.003212935	0.046594	0.019208	0.15266	
MH	GAS	96.72	0.0186414	0.365846924	0.164867744	0.012269	0.143714	0.060124	1228.45	0.003975	0.078009	0.035154	0.00261601	0.030644	0.01282	0.118816	
MH	DSL	27.38	0.088584	0.278785022	3.018723789	0.009731	0.189298	0.10096	1019.319	0.005347	0.016827	0.182203	0.00587343	0.011426	0.006094	0.027907	
Motor Coach	DSL	74.59	0.0785134	0.463603535	1.565567969	0.015354	0.147084	0.063399	1609.34	0.01291	0.076232	0.257433	0.002524704	0.024186	0.010425	0.120037	
OBUS	GAS	191.44	0.0131022	0.2371141583	0.103556199	0.012133	0.143744	0.060151	1215.04	0.00553	0.100085	0.043706	0.005120506	0.060667	0.025387	0.232608	
PTO	DSL	76.71	0.1993862	1.17732906	4.132061248	0.017583	0.00611	0.005846	1842.979	0.033718	0.199096	0.698764	0.002973404	0.010133	0.000989	0.14137	
SBUS	GAS	51.46	0.0125761	0.221835965	0.098114426	0.006327	0.754315	0.322593	633.4813	0.001427	0.025168	0.011132	0.001071786	0.085581	0.0366	0.032601	
SBUS	DSL	88.66	0.0692558	0.318960643	1.694209579	0.011923	0.762646	0.327793	1249.728	0.013538	0.062347	0.331165	0.002330572	0.149073	0.064073	0.110807	
T6 Ag	DSL	7.41	0.0536937	0.282625912	1.566887522	0.011377	0.146229	0.062881	1192.54	0.000878	0.004619	0.025609	0.000185953	0.00239	0.001023	0.008841	
T6 CAIRP heavy	DSL	5.05	0.0419704	0.2209185	1.029743348	0.010777	0.1452	0.061596	1129.655	0.000467	0.002458	0.011567	0.000119892	0.001615	0.000685	0.0057	
T6 CAIRP small	DSL	15.49	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.001357	0.007141	0.03261	0.00037681	0.004951	0.002097	0.017915	
T6 instate construction heavy	DSL	84.85	0.047899	0.251974796	1.281301459	0.011142	0.145749	0.062122	1167.885	0.00896	0.047136	0.239688	0.002084323	0.027265	0.011621	0.099099	
T6 instate construction small	DSL	227.95	0.0437735	0.230271098	1.11151724	0.011085	0.145378	0.061767	1161.872	0.021998	0.115719	0.558574	0.005570475	0.073057	0.03104	0.264847	
T6 instate heavy	DSL	692.54	0.0466222	0.245404187	1.233889453	0.010854	0.145618	0.061996	1137.721	0.071181	0.374676	1.883865	0.016572149	0.222325	0.094653	0.78792	
T6 instate small	DSL	1,744.41	0.0436153	0.229576642	1.104483094	0.011086	0.14535	0.06174	1162.049	0.167732	0.882884	4.247514	0.042635359	0.558974	0.237433	2.027091	
T6 OOS heavy	DSL	2.89	0.0420032	0.221091309	1.041218146	0.010778	0.145202	0.061599	1129.703	0.000268	0.001409	0.006637	6.86967E-05	0.000925	0.000393	0.003266	
T6 OOS small	DSL	8.88	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.000777	0.004091	0.018684	0.000215898	0.002837	0.001201	0.010265	
T6 Public	DSL	77.25	0.03956	0.189096303	1.17336338	0.011135	0.14668	0.063012	1167.091	0.006737	0.032205	0.199836	0.001896341	0.024981	0.010732	0.090161	
T6 utility	DSL	11.00	0.0328402	0.172859832	0.704312058	0.011042	0.144346	0.060779	1157.398	0.000796	0.004191	0.017077	0.000267734	0.0035	0.001474	0.012729	
T6TS	GAS	348.37	0.0131871	0.244707803	0.104987862	0.012121	0.143744	0.060151	1213.889	0.010128	0.187941	0.080633	0.009309301	0.110398	0.046197	0.422888	
T7 Ag	DSL	5.51	0.0924119	0.545670754	2.245795291	0.015052	0.104433	0.041864	1577.652	0.001124	0.006634	0.027304	0.000182991	0.00127	0.000509	0.0087	
T7 CAIRP	DSL	771.90	0.077061	0.455027296	1.346247	0.013588	0.103211	0.040694	1424.206	0.131137	0.774331	2.290942	0.023122337	0.175636	0.06925	1.099348	
T7 CAIRP construction	DSL	60.19	0.0788885	0.465677156	1.380623593	0.013951	0.103398	0.040873	1462.249	0.010469	0.061797	0.182123	0.001851282	0.013721	0.005424	0.088019	
T7 NNOOS	DSL	957.16	0.0673948	0.397950714	1.097194021	0.013552	0.102326	0.039848	1420.494	0.142213	0.839732	2.315234	0.028596997	0.215923	0.084085	1.35964	
T7 NOOS	DSL	304.90	0.0771075	0.455302144	1.348392556	0.013589	0.103215	0.040698	1424.359	0.05183	0.306045	0.906363	0.0091343	0.069379	0.027356	0.434289	
T7 other port	DSL	222.39	0.0840402	0.496238148	1.492288315	0.013925	0.103862	0.041317	1459.551	0.041204	0.243299	0.731649	0.006827139	0.050922	0.020257	0.324595	
T7 POLA	DSL	134.90	0.0843743	0.49821064	1.552274928	0.014056	0.103872	0.041327	1473.317	0.025093	0.148167	0.461643	0.004180267	0.030891	0.012291	0.19875	
T7 Public	DSL	58.21	0.0700712	0.33354293	2.92915048	0.014701	0.10932	0.046539	1540.927	0.008992	0.042801	0.375875	0.001886487	0.014028	0.005972	0.089693	
T7 Single	DSL	386.31	0.0655067	0.386802114	1.141055913	0.014179	0.102122	0.039653	1486.222	0.05579	0.329424	0.971793	0.012075916	0.086974	0.033771	0.574147	
T7 single construction	DSL	155.71	0.0654104	0.385563881	1.13902286	0.01416	0.102184	0.039711	1484.167	0.022454	0.132359	0.391011	0.004860809	0.035078	0.013632	0.231106	
T7 SWCV	DSL	167.39	0.0868809	13.53150397	1.758454475	0.003183	0.102147	0.039677	3204.903	0.032062	4.993556	0.648926	0.011174684	0.037696	0.014642	0.536478	
T7 tractor	DSL	1,170.66	0.0799408	0.472031834	1.460852071	0.013678	0.103459	0.040931	1433.701	0.206314	1.218234	3.770211	0.035301058	0.26701	0.105637	1.678383	
T7 tractor construction	DSL	116.10	0.082243	0.485384409	1.514564431	0.014078	0.103694	0.041157	1475.632	0.02105	0.124232	0.387645	0.00360325	0.02654	0.010534	0.171316	
T7 utility	DSL	5.65	0.0498947	0.294616606	0.709702202	0.014048	0.100707	0.038299	1472.476	0.000621	0.00367	0.00884	0.000174978	0.001254	0.000477	0.008319	
TTIS	GAS	46.86	0.3102638	29.59810622	2.998687608	0.01654	0.082885	0.032513	1609.21	0.032051	3.057554	0.308738	0.011708647	0.008562	0.003359	0.075044	
UBUS	GAS	135.72	0.0380569	0.695600662	0.430074525	0.016196	0.144606	0.060944	1621.314	0.011387	0.208122	0.128677	0.004845842	0.04326			

Vehicle Class	Fuel	Daily VMT (mi)	Emission Factors (g/mile)						Emissions (lb/day)						MT/day	
			ROG	CO	NOx	SOx	PM10	PM2.5	CO2	ROG	CO	NOx	SOx	PM10		PM2.5
All Other Buses	DSL	72.85	0.0486796	0.256233425	1.313297455	0.01122	0.145807	0.062177	1176.022	0.007819	0.041154	0.210933	0.001802047	0.023419	0.009986	0.085678
LDA	GAS	89,517.81	0.0123846	0.442190808	0.04789236	0.002061	0.045779	0.018696	205.723	2.444087	87.26621	9.451541	0.406726398	9.034419	3.689626	18.41588
LDA	DSL	1,229.78	0.0049662	0.149451816	0.010626527	0.001934	0.045785	0.01874	202.5926	0.013464	0.405186	0.02881	0.005243564	0.12413	0.050807	0.249144
LDA	ELEC	15,225.31	0	0	0	0	0.04475	0.01775	0	0	0	0	0	1.502057	0.595788	0
LDT1	GAS	6,248.04	0.0075341	0.423794159	0.035598058	0.002332	0.045937	0.018841	232.9267	0.103778	5.837482	0.490339	0.032121579	0.632745	0.259522	1.455330
LDT1	DSL	3.47	0.0182982	0.191453103	0.093358515	0.002197	0.051097	0.023823	230.0848	0.00014	0.001463	0.000713	1.67842E-05	0.00039	0.000182	0.000797
LDT1	ELEC	2.74	0	0	0	0	0.04475	0.01775	0	0	0	0	0	0.00027	0.000107	0
LDT2	GAS	30,286.93	0.0059171	0.396626883	0.02985469	0.002583	0.045791	0.018707	258.1547	0.395085	26.48283	1.993402	0.172488125	3.075452	1.249062	7.818714
LDT2	DSL	66.42	0.0148814	0.146440668	0.029631561	0.002416	0.048777	0.021602	253.0242	0.002179	0.021444	0.004339	0.000353716	0.007143	0.003163	0.016807
LHD1	GAS	638.23	0.0140094	0.286395631	0.108314541	0.007931	0.086616	0.03676	793.9993	0.019712	0.402969	0.152403	0.011158649	0.121871	0.051723	0.506756
LHD1	DSL	1,307.52	0.134292	0.626424343	0.562562952	0.004987	0.100997	0.047773	522.3995	0.387103	1.805697	1.621613	0.014375685	0.291127	0.137709	0.683049
LHD2	GAS	262.46	0.0068326	0.157595197	0.047486333	0.00879	0.099345	0.04221	880.3641	0.003953	0.091185	0.027476	0.005086138	0.057481	0.024423	0.231056
LHD2	DSL	643.87	0.1218519	0.543982272	0.155559281	0.005518	0.111529	0.051122	577.9825	0.172965	0.772168	0.220812	0.005832336	0.158313	0.072566	0.372147
MCY	GAS	951.88	2.3119908	18.30121223	1.141324464	0.002218	0.181819	0.080306	184.8985	4.851724	38.40518	2.395075	0.004654273	0.038172	0.01743	0.176001
MDV	GAS	16,165.48	0.0085553	0.487083158	0.042936933	0.003442	0.045848	0.01876	344.0752	0.304895	17.35876	1.530194	0.122683773	1.633953	0.668569	5.562319
MDV	DSL	449.91	0.0057161	0.167229223	0.011635716	0.003174	0.046032	0.018977	332.4955	0.00567	0.165871	0.011541	0.003148418	0.045658	0.018823	0.149595
MH	GAS	94.78	0.0186414	0.365846924	0.164867744	0.012269	0.143714	0.060124	1228.45	0.003895	0.076442	0.034448	0.00256348	0.030029	0.012563	0.11643
MH	DSL	26.83	0.088584	0.278785022	0.3018723789	0.009731	0.189298	0.10096	1019.319	0.005239	0.164889	0.178544	0.005075549	0.011196	0.005971	0.027347
Motor Coach	DSL	73.09	0.0785134	0.463603535	1.565567969	0.015354	0.147084	0.063399	1609.34	0.012651	0.074702	0.252264	0.002474007	0.0237	0.010216	0.117626
OBUS	GAS	187.60	0.0131022	0.237141583	0.103556199	0.012133	0.143744	0.060151	1215.04	0.005419	0.098075	0.042828	0.005017685	0.059449	0.024877	0.227938
PTO	DSL	75.17	0.1993862	1.17732906	4.132061248	0.017583	0.00611	0.005846	1842.979	0.033041	0.195098	0.684733	0.002913697	0.010103	0.000969	0.138531
SBUS	GAS	50.43	0.0125761	0.221835965	0.098114426	0.006327	0.754315	0.322593	633.4813	0.001398	0.024663	0.010908	0.000703446	0.083862	0.035865	0.031946
SBUS	DSL	86.88	0.069258	0.318960643	1.694209579	0.011923	0.762646	0.327793	1249.728	0.013266	0.061095	0.324515	0.002283773	1.14608	0.062877	0.108582
T6 Ag	DSL	7.26	0.0536937	0.282625912	1.566887522	0.011377	0.146229	0.062581	1192.54	0.00086	0.004526	0.025095	0.000182219	0.002342	0.001002	0.008664
T6 CAIRP heavy	DSL	4.94	0.0419704	0.2209185	1.039743348	0.010777	0.1452	0.061596	1129.655	0.000458	0.002408	0.011334	0.000117485	0.001583	0.000671	0.005586
T6 CAIRP small	DSL	15.18	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.001329	0.006997	0.031955	0.000369244	0.004852	0.002055	0.017556
T6 instate construction heavy	DSL	83.15	0.047899	0.251974796	1.281301459	0.011142	0.145749	0.062122	1167.885	0.00878	0.046189	0.234875	0.002042469	0.026717	0.011387	0.097109
T6 instate construction small	DSL	223.37	0.0437735	0.230271098	1.11151724	0.011085	0.145378	0.061767	1161.872	0.021556	0.113395	0.547357	0.005458619	0.07159	0.030416	0.259529
T6 instate heavy	DSL	678.64	0.0466222	0.245404187	1.233889453	0.010854	0.145618	0.061996	1137.721	0.069752	0.367152	1.846036	0.016239376	0.21786	0.092753	0.772099
T6 instate small	DSL	1,709.38	0.0436153	0.229576642	1.104483094	0.011086	0.14535	0.06174	1162.049	0.164363	0.865155	4.162223	0.041779229	0.547749	0.232666	1.986387
T6 OOS heavy	DSL	2.83	0.0420032	0.221091309	1.041218146	0.010778	0.145202	0.061599	1129.703	0.000262	0.001381	0.006503	6.73173E-05	0.000979	0.000385	0.003201
T6 OOS small	DSL	8.70	0.0397256	0.209102539	0.95492817	0.011034	0.144991	0.061397	1156.575	0.000762	0.004009	0.018309	0.000211563	0.00278	0.001177	0.010059
T6 Public	DSL	75.70	0.03956	0.189096303	1.17336338	0.011135	0.14668	0.063012	1167.091	0.006602	0.031558	0.195824	0.001858262	0.02448	0.010516	0.088351
T6 utility	DSL	10.78	0.0328402	0.172859832	0.704312058	0.011042	0.144346	0.060779	1157.398	0.00078	0.004107	0.016734	0.000226358	0.00343	0.001444	0.012474
T6TS	GAS	341.38	0.0131871	0.244707803	0.104987862	0.012121	0.143744	0.060151	1213.889	0.009925	0.184167	0.079014	0.009122367	0.108181	0.045269	0.414396
T7 Ag	DSL	5.40	0.0924119	0.545670754	2.245795291	0.015052	0.104433	0.041864	1577.652	0.01101	0.006501	0.026755	0.000179316	0.001244	0.000499	0.008526
T7 CAIRP	DSL	75.40	0.077061	0.455027296	1.346247	0.013588	0.103211	0.040694	1424.206	0.128503	0.758782	2.244939	0.022658033	1.172109	0.06786	0.177273
T7 CAIRP construction	DSL	58.99	0.0788885	0.465677156	1.380623593	0.013951	0.103398	0.040873	1462.249	0.010259	0.060556	0.179534	0.001814108	0.013446	0.005315	0.086251
T7 NOOS	DSL	937.94	0.0673948	0.397950714	1.097194021	0.013552	0.102326	0.039848	1420.494	0.139357	0.82287	2.268743	0.02802276	0.211587	0.082396	1.332338
T7 NOOS	DSL	298.78	0.0771075	0.455302144	1.348329556	0.013589	0.103215	0.040698	1424.359	0.050789	0.2999	0.888163	0.008950881	0.067986	0.026807	0.425568
T7 other part	DSL	217.93	0.0840402	0.496238148	1.492288315	0.013925	0.103862	0.041317	1459.551	0.040376	0.238413	0.716957	0.006690048	0.0499	0.01985	0.318077
T7 POLA	DSL	132.19	0.0843743	0.49821064	1.552274928	0.014056	0.103872	0.041327	1473.317	0.024589	0.145192	0.452373	0.004096326	0.030271	0.012044	0.194759
T7 Public	DSL	57.04	0.0700712	0.33354293	2.92915048	0.014701	0.10932	0.046539	1540.927	0.008811	0.041942	0.368327	0.001848606	0.013746	0.005852	0.087892
T7 Single	DSL	378.56	0.0655067	0.386802114	1.141055913	0.014179	0.102122	0.039653	1486.222	0.054669	0.322809	0.952729	0.011833428	0.085227	0.033093	0.562618
T7 single construction	DSL	152.59	0.0654104	0.385563881	1.13902286	0.014176	0.102184	0.039711	1484.167	0.022004	0.129701	0.383159	0.004763202	0.034374	0.013359	0.226466
T7 SWCV	DSL	164.03	0.0868809	13.53150397	1.758454475	0.003183	0.102147	0.039677	3204.903	0.031418	4.893284	6.358955	0.001151096	0.036939	0.014348	0.525705
T7 tractor	DSL	1,147.16	0.0799408	0.472031834	1.460852071	0.013678	0.103459	0.040931	1433.701	0.202171	1.193771	3.694504	0.034592202	0.261648	0.103516	1.644681
T7 tractor construction	DSL	113.77	0.082243	0.485384409	1.514564431	0.014078	0.103694	0.041157	1475.632	0.020627	0.121737	0.379861	0.003530896	0.026007	0.010322	0.167876
T7 utility	DSL	5.54	0.0498947	0.294616606	0.709702202	0.014048	0.100707	0.038299	1472.476	0.000609	0.003596	0.008662	0.000171464	0.001229	0.000467	0.008152
T7IS	GAS	45.92	0.3102638	29.59810622	2.988687608	0.01654	0.082885	0.032513	1609.21	0.031407	2.996158	0.302539	0.001674337	0.00839	0.003291	0.07389
UBUS	GAS	132.99	0.0380569	0.695600662	0.430074525	0.016196	0.144606	0.060944	1621.314	0.011158	0.203943	0.126094				

Old Town Existing

Population 834 Total VMT 151,300 Total # Auto Trips 57,989 Avg Trip Length 2.6

Existing (2015)

Vehicle Class	Fuel	Daily VMT (mi)	Emission Factors (g/mile)						Emissions (lb/day)						MT/day	
			ROG	CO	NOx	SOx	PM10	PM2.5	CO2	ROG	CO	NOx	SOx	PM10		PM2.5
All Other Buses	DSL	78.25	0.237772	0.604855684	5.789813281	0.01187	0.22041031	0.133553	1244.207	0.041016	0.104339	0.998758	0.002048	0.038021	0.023038	0.097356
LDA	GAS	81375.20	0.0364325	1.128423015	0.123208318	0.003346	0.04646627	0.01933112	333.29	6.535941	202.4375	22.1034	0.600267	8.335983	3.467976	27.12154
LDA	DSL	773.73	0.041585	0.376999848	0.26850492	0.003115	0.07215295	0.04396751	326.3447	0.070934	0.643072	0.458006	0.005314	0.123076	0.074998	0.252504
LDA	ELEC	509.09	0	0	0	0	0.04475001	0.01775001	0	0	0	0	0	0.050225	0.019921	0
LDT1	GAS	7724.11	0.0915749	2.802600206	0.285724618	0.003932	0.04867629	0.02137505	389.1226	1.55938	47.72398	4.865452	0.066949	0.828883	0.363984	3.005627
LDT1	DSL	9.76	0.2242975	1.47156993	1.328031754	0.003995	0.2204567	0.1858557	418.4712	0.004825	0.031653	0.028565	8.59E-05	0.004742	0.003998	0.004083
LDT1	ELEC	2.40	0	0	0	0	0.04475001	0.01775001	0	0	0	0	0	0.000236	9.38E-05	0
LDT2	GAS	29855.17	0.0361897	1.377019224	0.176884236	0.00453	0.04646686	0.01933372	451.549	2.381945	90.63304	11.64222	0.298177	3.0585	1.272512	13.48107
LDT2	DSL	42.26	0.0240221	0.184203933	0.118012039	0.003897	0.05630628	0.02880635	408.1602	0.002238	0.017162	0.010995	0.000363	0.005246	0.002684	0.017249
LHD1	GAS	1859.88	0.1405601	2.648434154	0.538874512	0.008584	0.08763712	0.03770334	855.2638	0.576332	10.85926	2.209524	0.035199	0.359335	0.154593	1.590685
LHD1	DSL	1642.97	0.218419	1.022333012	4.5909391	0.005655	0.13296896	0.07836265	592.3574	0.79113	3.702967	16.28273	0.020483	0.481624	0.283835	0.973227
LHD2	GAS	316.87	0.0869461	1.622447862	0.391403415	0.009607	0.0994478	0.0423063	959.4889	0.060738	1.133395	0.273423	0.006711	0.069471	0.029554	0.304035
LHD2	DSL	558.12	0.1849268	0.832076517	3.326716594	0.006334	0.1360242	0.07455684	663.4866	0.227539	1.023811	4.093288	0.007794	0.167368	0.091737	0.370307
MCY	GAS	1033.10	2.6689367	24.8744208	1.195131889	0.002243	0.01743088	0.00761801	176.1771	6.078655	56.6529	2.721981	0.005108	0.0397	0.01735	0.182009
MDV	GAS	19010.66	0.0597029	1.974373825	0.272554548	0.005868	0.04655844	0.01941739	584.5645	2.502185	82.74723	11.42293	0.245946	1.951293	0.813795	11.11296
MDV	DSL	204.17	0.0196572	0.234571716	0.097141215	0.005096	0.05527244	0.02781724	533.7659	0.008848	0.105583	0.043724	0.002294	0.024879	0.012521	0.108979
MH	GAS	2270.54	0.4097291	11.5384429	1.166798618	0.013272	0.14670896	0.06292213	1309.918	0.199212	5.610042	0.567303	0.006453	0.017133	0.030593	0.288892
MH	DSL	51.09	0.1626126	0.624871929	6.857922213	0.010236	0.33171322	0.23721403	1072.212	0.018316	0.070383	0.772445	0.001153	0.037363	0.026719	0.054781
Motor Coach	DSL	51.13	0.3396019	1.03385087	8.741964848	0.017169	0.23501626	0.1475271	1799.64	0.038282	0.116541	0.985437	0.001935	0.026492	0.01663	0.092019
OBUS	GAS	150.59	0.1325949	3.125834141	0.802330679	0.013049	0.14332326	0.0597658	1301.851	0.044019	1.037708	0.266356	0.004332	0.04758	0.019841	0.19604
PTO	DSL	52.35	0.894633	3.103635848	12.67539231	0.021149	0.31352845	0.29996535	2216.743	0.103241	0.358161	1.462747	0.002441	0.036181	0.034616	0.116037
SBUS	GAS	24.31	0.3800043	9.239365787	1.668144806	0.006902	0.75626116	0.32438231	675.2758	0.020365	0.495159	0.0894	0.00037	0.04053	0.017384	0.016416
SBUS	DSL	81.96	0.2201882	0.565568082	9.565731121	0.012566	0.85292087	0.41416261	1317.119	0.039784	0.102187	1.728341	0.00227	0.154106	0.074831	0.107947
T6 Ag	DSL	7.82	1.4623579	3.374428911	12.87464415	0.011659	0.86634811	0.75154782	1222.109	0.025215	0.058185	0.021998	0.000201	0.014938	0.012959	0.009559
T6 CAIRP heavy	DSL	3.46	0.1632376	0.463674335	3.60914672	0.01159	0.20131954	0.11528809	1214.808	0.001245	0.003536	0.027524	8.4E-05	0.001535	0.000879	0.002529
T6 CAIRP small	DSL	10.62	0.3124879	0.84099465	4.313530552	0.011716	0.30179361	0.2114157	1227.982	0.007315	0.019688	0.100981	0.000274	0.007065	0.004949	0.01304
T6 instate construction heavy	DSL	76.03	0.4192887	1.039411964	7.262099777	0.011683	0.32609439	0.23466524	1224.54	0.070276	0.174213	1.217184	0.001958	0.054656	0.039332	0.093098
T6 instate construction small	DSL	204.24	0.3882285	1.012919503	5.201034953	0.01172	0.3295502	0.23797155	1228.455	0.174804	0.456077	2.341816	0.005277	0.148383	0.107149	0.250897
T6 instate heavy	DSL	422.67	0.2138498	0.57090918	4.333423464	0.011594	0.21948459	0.13266733	1215.226	0.199266	0.531976	4.037906	0.010803	0.204517	0.12362	0.513636
T6 instate small	DSL	1081.82	0.4460293	1.152353882	5.676216838	0.011672	0.36254712	0.26954103	1223.377	1.063764	2.748323	13.53758	0.027836	0.864662	0.642846	1.323474
T6 OOS heavy	DSL	1.98	0.0968777	0.30581251	3.235031232	0.01163	0.16616244	0.08165187	1219.024	0.000423	0.001336	0.014135	5.08E-05	0.000726	0.000357	0.002416
T6 OOS small	DSL	6.08	0.3124879	0.84099465	4.313530552	0.011716	0.30179361	0.2114157	1227.982	0.004191	0.01128	0.057858	0.000157	0.004048	0.002836	0.007471
T6 Public	DSL	68.42	0.0803657	0.21660391	6.894937518	0.011804	0.17729569	0.0923035	1237.219	0.012122	0.032672	1.040027	0.00178	0.026743	0.013923	0.084651
T6 utility	DSL	9.55	0.0554148	0.191715678	2.548827094	0.011963	0.15283838	0.06890421	1253.898	0.001166	0.004036	0.053652	0.000252	0.003217	0.00145	0.011972
T6TS	GAS	250.99	0.3160669	7.503181798	1.553893431	0.013124	0.14456809	0.06091981	1301.724	0.174887	4.151685	0.859805	0.007262	0.079993	0.033708	0.326716
T7 Ag	DSL	5.82	1.8336471	7.244099719	19.32669036	0.016985	1.14588705	1.03826465	1780.295	0.023519	0.092915	0.24789	0.000218	0.014698	0.013317	0.010358
T7 CAIRP	DSL	529.16	0.2526738	0.912784667	6.298195454	0.015994	0.17129543	0.10583343	1676.404	0.294765	1.06484	7.347377	0.018658	0.199831	0.123464	0.887091
T7 CAIRP construction	DSL	53.93	0.3456385	1.170172517	8.464050341	0.016545	0.22601296	0.15818391	1734.155	0.041096	0.139133	1.006372	0.001967	0.026873	0.018808	0.093528
T7 NNOOS	DSL	656.16	0.1157841	0.512249478	3.682115753	0.015375	0.1180533	0.05489454	1611.557	0.167489	0.741003	5.326424	0.022241	0.170772	0.079409	1.057443
T7 NOOS	DSL	209.02	0.1908481	0.713053285	5.908001	0.015987	0.140045	0.07593489	1675.67	0.087943	0.328575	2.72241	0.007367	0.064533	0.034991	0.350247
T7 other port	DSL	137.75	0.190961	0.621995572	6.076439093	0.016535	0.12599903	0.06249654	1733.158	0.05799	0.188886	1.845275	0.005021	0.038263	0.018979	0.238739
T7 POLA	DSL	55.75	0.2031593	0.64626004	6.516363429	0.016635	0.12843348	0.06482567	1743.606	0.024971	0.079434	0.800951	0.002045	0.015786	0.007968	0.097212
T7 Public	DSL	59.78	0.11803	0.453216145	12.0769753	0.017008	0.16293783	0.09783738	1782.705	0.015556	0.059731	1.591662	0.002242	0.021474	0.012894	0.106573
T7 Single	DSL	263.62	0.437561	1.599554597	10.13432078	0.016513	0.31724248	0.24546688	1730.854	0.254302	0.929629	5.889866	0.009597	0.184375	0.14266	0.456293
T7 single construction	DSL	139.52	0.3629631	1.27782152	9.24254655	0.016384	0.25371402	0.18468663	1717.287	0.111639	0.390329	2.8428	0.005039	0.078037	0.056805	0.239591
T7 SWCV	DSL	127.89	0.3046909	4.339698271	14.20541511	0.029255	0.1159251	0.0528584	4303.022	0.085906	1.22356	4.005157	0.008248	0.032685	0.014903	0.550316
T7 tractor	DSL	785.66	0.3347825	1.16220724	7.863074825	0.016087	0.20163306	0.13485867	1686.2	0.579865	2.013019	13.61936	0.027864	0.349242	0.233584	1.324788
T7 tractor construction	DSL	104.02	0.5153164	1.783077715	10.16881635	0.016458	0.31411523	0.24247491	1725.11	0.118173	0.408899	2.331932	0.003774	0.027033	0.055605	0.179447
T7 utility	DSL	4.90	0.0823073	0.31770835	4.636807958	0.016459	0.11427486	0.05127955	1725.144	0.00089	0.003435	0.050131	0.000178	0.001236	0.000554	0.008462
T7IS	GAS	30.25	0.9761156	39.01647899	4.572335912	0.01898	0.08304599	0.03267395	1836.158	0.065104	2.602299	0.304963	0.001266	0.005539	0.002179	0.055551
UBUS	GAS	96.42	0.3801803	5.041564553	1.009576053	0.017369	0.14423543	0.06061755	1730.614	0.080816	1.071698	0.21460				

