Appendix B Air Quality Assessment

Draft Technical Report for the South Glendale Community Plan Air Quality Assessment

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Draft Air Quality Assessment

South Glendale Community Plan

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ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
%	percent
µg/m³	Micrograms per cubic meter
2015 Guidance	Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments
AB	Assembly Bill
AQMP	Air Quality Management Plan
ASHRAE	American Society of Heating, Refrigeration, and Air-Conditioning Engineers
BAAQMD	Bay Area Air Quality Management District
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAAQS	California ambient air quality standards
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
City	City of Glendale
CO	carbon monoxide
DEM/GIS	Digital Elevation Model/Geological Information System
diesel PM	PM exhaust from diesel engines
du	dwelling units
EMFAC	Mobile-Source Emission Factor Model
EPA	U.S. Environmental Protection Agency
g/s	gram per second
HAP	hazardous air pollutant
HRA	health risk assessment
HARP2	Hotspots Analysis and Reporting Program Version 2
I-	Interstate
L/kg-day	liters per kilograms body weight-day
lb/day	pounds per day
lb/year	pounds per year
los	level of service
km	kilometers
Ksf	thousand square feet
MEIR	maximum exposed individual resident
NO_2	nitrogen dioxide

NO_X	oxides of nitrogen
NAAQS	national ambient air quality standards
OEHHA	California Office of Environmental Health and Assessment
PeMS	Performance Measurement System
PM_{10}	respirable particulate matter
$PM_{2.5}$	fine particulate matter
ppm	parts per million
RMP	Risk Management Policy
RTP/SCS	Regional Transportation Strategy/Sustainable Communities Strategy
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
sf	square feet
SGCP	South Glendale Community Plan
SIP	state implementation plan
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO_2	sulfur dioxide
SO_X	sulfur oxide
SR	State Route
TAC	toxic air contaminant
USGS	United States Geological Survey
VMT	vehicle miles traveled
VOC	volatile organic compounds
VPH	vehicles per hour
WRCC	Western Regional Climate Center

1 INTRODUCTION

The Air Quality Analysis identifies and analyzes the potential environmental impacts associated with adoption of the South Glendale Community Plan (SGCP or plan) related to air quality emissions. The information and analysis in this document is organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines and in accordance with current State and local guidance.

This report includes a discussion of existing air quality conditions and an analysis of potential short-term and long-term air quality impacts that could result from buildout of the SGCP. The method of analysis for short-term construction, long-term regional (operational), local mobile-source, and toxic air emissions is consistent with the recommendations of the U.S. Environmental Protection Agency (EPA), California Air Resources Board (CARB), and South Coast Air Quality Management District (SCAQMD). In addition, mitigation measures in the form of General Plan policies are recommended as necessary to reduce significant air quality impacts.

2 PROJECT DESCRIPTION

The City of Glendale (City) is located at the eastern end of the San Fernando Valley in Los Angeles County, at the southern base of the Verdugo Mountains. It was first incorporated in 1906 and today includes over 30.5 square miles and 34 unique neighborhoods.

Adoption of the SGCP includes four components: the SGCP policy document, amendments to the General Plan to reflect the Community Plan, an amendment to the boundaries of the Downtown Specific Plan (DSP), and amendments to the Municipal Code (Zoning Ordinance and Zoning Map) to apply zoning consistent with the SGCP. For purposes of this Air Quality Assessment, potential impacts are associated with physical planned development included within the SGCP, herein referred to as the project. The proposed land use changes include mixed-use high density, mixed-use low density, urban centers, town centers, village centers, high density residential, medium-high density residential, medium density residential, moderate density residential, low density residential, industrial, recreation and open space, and campuses.

The City is bordered to the northwest by the Tujunga neighborhood of Los Angeles, to the northeast by La Cañada Flintridge and the unincorporated areas of La Crescenta and Montrose, to the east by Pasadena, to the south and southeast by the City of Los Angeles, and to the west by Burbank. Glendale is surrounded by Interstate 210 (I-210), State Route (SR-) 2, SR-134, and I-5 freeways. Project construction is anticipated to begin as early as 2018, and project buildout is anticipated to be in 2040. See Exhibit 1 for regional location and Exhibit 2 for plan boundaries.

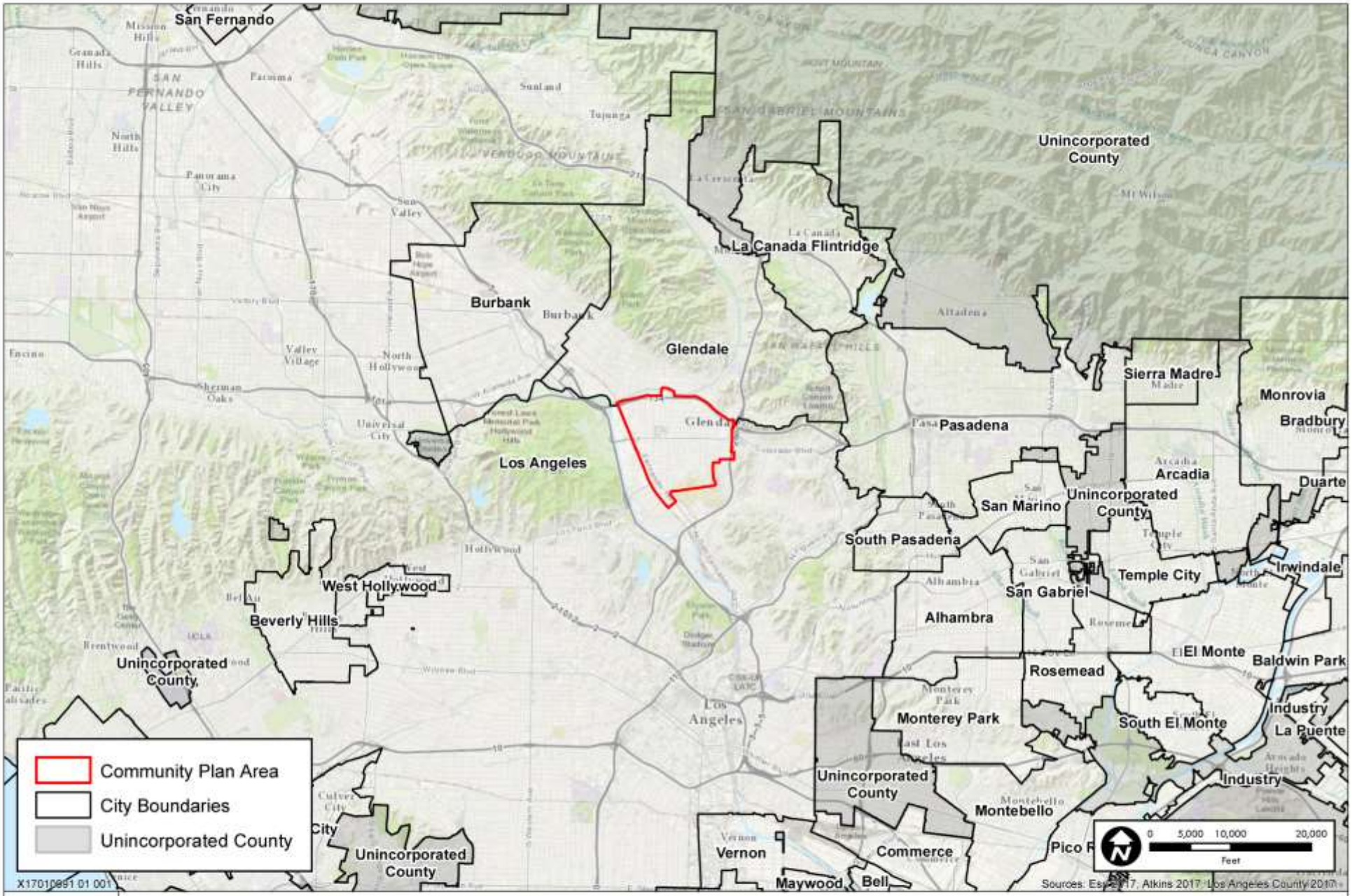

Exhibit 1 **Regional Location**

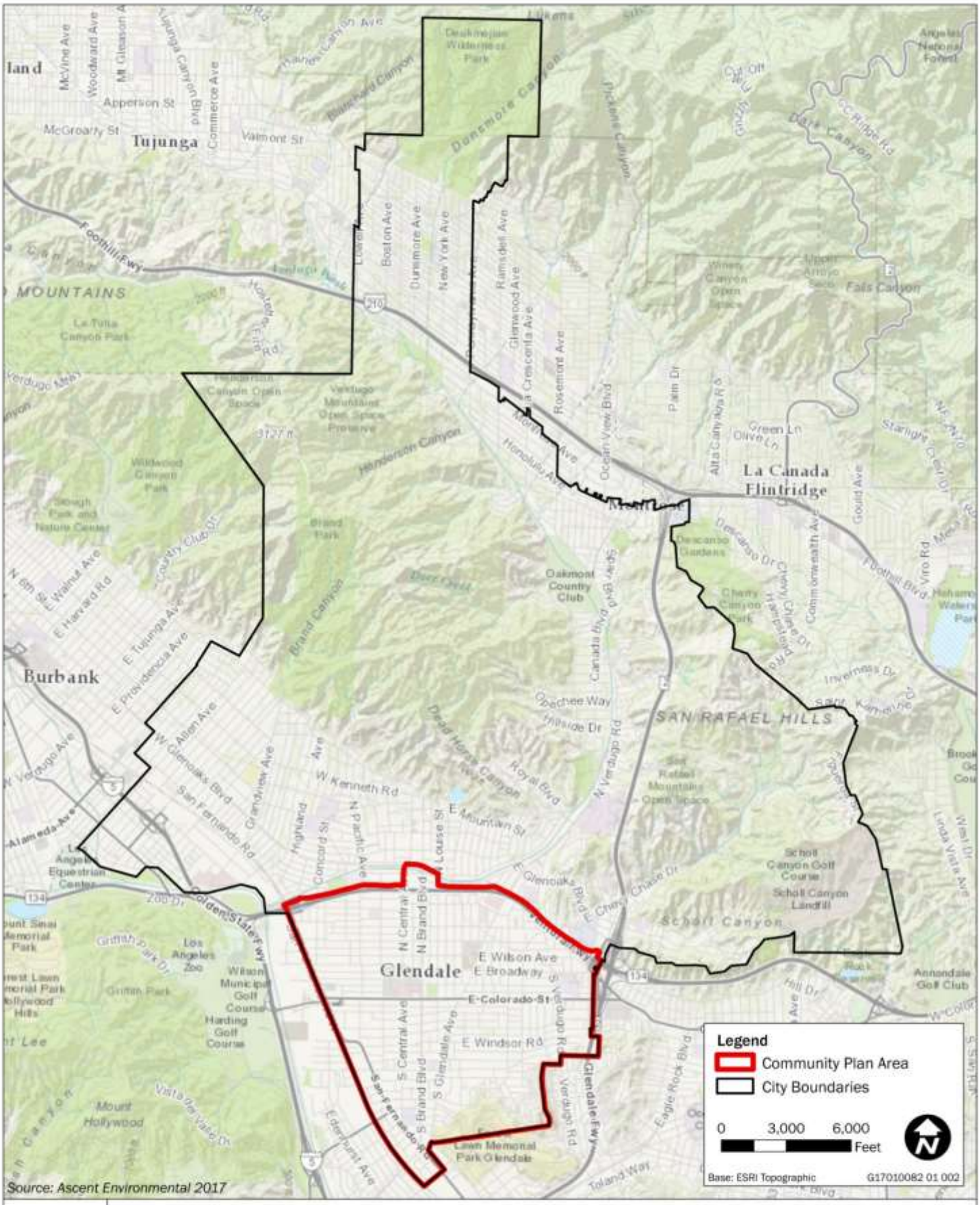

Exhibit 2 **South Glendale Community Plan Location**

3 REGULATORY BACKGROUND

Air quality in the project area is regulated by the EPA, CARB, and SCAQMD. Each of these agencies develops rules, regulations, policies, and/or goals to comply with applicable legislation. Although EPA regulations may not be superseded, state and local regulations may be more stringent.

3.1 FEDERAL

U.S Environmental Protection Agency

The EPA has been charged with implementing national air quality programs. EPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), which was enacted in 1970. The most recent major amendments made by Congress were in 1990. See details below for further discussion.

Clean Air Act

Criteria Air Pollutants

The CAA required EPA to establish the national ambient air quality standards (NAAQS) for the following criteria air pollutants: ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), respirable and fine particulate matter (PM_{10} and $PM_{2.5}$), and lead. Table 1 includes the primary and secondary NAAQS. The primary standards protect the public health and the secondary standards protect public welfare. The CAA also required each state to prepare an air quality control plan, referred to as a state implementation plan (SIP), for areas that do not attain the NAAQS. The federal Clean Air Act Amendments of 1990 (CAAA) added requirements for states with areas that are not in attainment of all NAAQS to revise their SIPs to incorporate additional control measures to reduce air pollution. The SIP is modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. EPA is responsible for reviewing all SIPs to determine whether they conform to the mandates of the CAA and its amendments, and whether implementation will achieve air quality goals. If EPA determines a SIP to be inadequate, a federal implementation plan that imposes additional control measures may be prepared for the nonattainment area. If an approvable SIP is not submitted or implemented within the mandated time frame, sanctions may be applied to transportation funding and permitting of stationary air pollution sources in the nonattainment air basin. Under the CAA requirements, each nonattainment area throughout the state is required to develop a regional air quality management plan. Collectively, all regional air quality management plans throughout the state constitute the SIP.

Hazardous Air Pollutants

Toxic air contaminants (TACs), or in federal parlance, hazardous air pollutants (HAPs) are a defined set of airborne pollutants that may pose a present or potential hazard to human health. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations.

A wide range of sources, from industrial plants to motor vehicles, emit TACs. The health effects associated with TACs are quite diverse and generally are assessed locally, rather than regionally. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis or genetic damage; or short-term acute affects such as eye watering, respiratory irritation (a cough), running nose, throat pain, and headaches.

Table 1 Ambient Air Quality Standards

Pollutant	Averaging Time	California[a,b]	National[c]	
			Primary[b,d]	Secondary[b,e]
Ozone	1-hour	0.09 ppm (180 µg/m³)	–[e]	Same as primary standard
	8-hour	0.070 ppm (137 µg/m³)	0.070 ppm (147 µg/m³)	
Carbon monoxide (CO)	1-hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	Same as primary standard
	8-hour	9 ppm[f] (10 mg/m³)	9 ppm (10 mg/m³)	
Nitrogen dioxide (NO_2) [g]	Annual arithmetic mean	0.030 ppm (57 µg/m³)	53 ppb (100 µg/m³)	Same as primary standard
	1-hour	0.18 ppm (339 µg/m³)	100 ppb (188 µg/m³)	–
Sulfur dioxide (SO_2	24-hour	0.04 ppm (105 µg/m³)	–	–
	3-hour	–	–	0.5 ppm (1300 µg/m³)
	1-hour	0.25 ppm (655 µg/m³)	75 ppb (196 µg/m³)	–
Respirable particulate matter (PM_{10})	Annual arithmetic mean	20 µg/m³	–	Same as primary standard
	24-hour	50 µg/m³	150 µg/m³	
Fine particulate matter ($PM_{2.5}$)	Annual arithmetic mean	12 µg/m³	12.0 µg/m³	15.0 µg/m³
	24-hour	–	35 µg/m³	Same as primary standard
Lead [g]	Calendar quarter	–	1.5 µg/m³	Same as primary standard
	30-Day average	1.5 µg/m³	–	–
	Rolling 3-Month Average	–	0.15 µg/m³	Same as primary standard
Hydrogen sulfide	1-hour	0.03 ppm (42 µg/m³)	No national standards	
Sulfates	24-hour	25 µg/m³		
Vinyl chloride[f]	24-hour	0.01 ppm (26 µg/m³)		
Visibility-reducing particulate matter	8-hour	Extinction of 0.23 per km		

Notes: µg/m³ = micrograms per cubic meter; km = kilometers; ppb = parts per billion; ppm = parts per million.

[a] California standards for ozone, carbon monoxide, SO_2 (1- and 24-hour), NO_2, particulate matter, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25 degrees Celsius (°C) and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[c] National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic means) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over three years, is equal to or less than the standard. The PM_{10} 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. The $PM_{2.5}$ 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. Environmental Protection Agency for further clarification and current federal policies.

[d] National primary standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National secondary standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] The California Air Resources Board has identified lead and vinyl chloride as toxic air contaminants with no threshold of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

Source: CARB 2016a

For evaluation purposes, TACs are separated into carcinogens and non-carcinogens based on the nature of the physiological effects associated with exposure to the pollutant. Carcinogens are assumed to have no safe threshold below which health impacts would not occur. This contrasts with criteria air pollutants, for which acceptable levels of exposure can be determined and for which ambient standards have been established. Cancer risk from TACs is expressed as excess cancer cases per one million exposed individuals, typically over a lifetime of exposure.

EPA and, in California, CARB regulate HAPs and TACs, respectively, through statutes and regulations that generally require the use of the maximum available control technology or best available control technology for toxics to limit emissions. State and local regulations are applicable to the project and discussed in further detail below.

3.2 STATE

California Air Resources Board

CARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA). California law authorizes CARB to set ambient (outdoor) air pollution standards (California Health and Safety Code section 39606) in consideration of public health, safety, and welfare (California ambient air quality standards [CAAQS]). CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants.

California Clean Air Act

The CCAA requires that all local air districts in the state endeavor to achieve and maintain the CAAQS by the earliest date practical. The act specifies that local air districts should focus particular attention on reducing the emissions from transportation and area-wide emission sources, and provides districts with the authority to regulate indirect sources.

CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants. In most cases the CAAQS are more stringent than the NAAQS. Differences in the standards are generally explained by the health effects studies considered during the standard-setting process and the interpretation of the studies. In addition, the CAAQS incorporate a margin of safety to protect sensitive individuals.

Tanner Air Toxics Act and the Air Toxics Hot Spots Information and Assessment Act of 1987

TACs in California are regulated primarily through the Tanner Air Toxics Act (Assembly Bill [AB] 1807, Chapter 1047, Statutes of 1983) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (Hot Spots Act; AB 2588, Chapter 1252, Statutes of 1987). AB 1807 sets forth a formal procedure for CARB to designate substances as TACs. Research, public participation, and scientific peer review are required before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and adopted EPA's list of HAPs as TACs. Most recently, PM exhaust from diesel engines (diesel PM) was added to CARB's list of TACs.

After a TAC is identified, CARB then adopts an airborne toxics control measure for sources that emit that TAC. If a safe threshold exists for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If no safe threshold exists, the measure must incorporate best available control technology for toxics to minimize emissions.

The Hot Spots Act requires that existing facilities that emit toxic substances above a specified level prepare an inventory of toxic emissions, prepare a risk assessment if emissions are significant, notify the public of significant risk levels, and prepare and implement risk reduction measures.

CARB has adopted diesel exhaust control measures and more stringent emissions standards for various transportation-related mobile sources of emissions, including transit buses, and off-road diesel equipment (e.g., tractors, generators). Over time, the replacement of older vehicles will result in a vehicle fleet that produces substantially lower levels of TACs than under current conditions. Mobile-source emissions of TACs (e.g., benzene, 1-3-butadiene, diesel PM) have been reduced significantly over the last decade and will be reduced further in California through a progression of regulatory measures (e.g., Low Emission Vehicle/Clean Fuels and Phase II reformulated gasoline regulations) and control technologies. With implementation of CARB's Risk Reduction Plan, it is expected that diesel PM concentrations will be 85 percent less in 2020 in comparison to year 2000 (CARB 2000). Adopted regulations are also expected to continue to reduce formaldehyde emissions emitted by cars and light-duty trucks. As emissions are reduced, it is expected that risks associated with exposure to the emissions will also be reduced.

3.3 LOCAL

South Coast Air Quality Management District

SCAQMD is the primary agency responsible for planning to meet NAAQS and CAAQS in the South Coast Air Basin (SCAB). SCAQMD periodically updates the Air Quality Management Plan (AQMP) which is submitted to be included in the State SIP (SCAQMD 2017). The SIP is a compilation of plans and regulations that govern how the region and State will comply with the CAA requirements to attain and maintain the NAAQS for ozone and $PM_{2.5}$.CARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA). California law authorizes CARB to set ambient (outdoor) air pollution standards (California Health and Safety Code section 39606) in consideration of public health, safety, and welfare (California ambient air quality standards [CAAQS]). CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants.

Criteria Air Pollutants

SCAQMD has developed a set of guidelines for use by lead agencies when preparing environmental documents. The guidelines contain thresholds of significance for criteria pollutants and TACs, and also make recommendations for conducting air quality analyses. After SCAQMD guidelines have been consulted and the air quality impacts of a project have been assessed, the lead agency's analysis undergoes a review by SCAQMD who submits comments and suggestions to the lead agency for incorporation into the environmental document.

All projects are subject to adopted SCAQMD rules and regulations in effect at the time of construction. Specific rules applicable to the construction of the project may include but are not limited to the following:

- **Regulation II, Rule 201**: Permit to Construct. A person shall not build, erect, install, alter, or replace any equipment permit unit, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants without first obtaining written authorization for such construction from the Executive Officer. A permit to construct shall remain in effect until the permit to operate the equipment for which the application was filed as granted or denied, or the application is canceled.

- **Regulation II, Rule 203**: Permit to Operate. A person shall not operate or use any equipment permit unit, the use of which may cause the issuance of air contaminants, or the use of which may reduce or control the issuance of air contaminants, without first obtaining a written permit to operate from the Executive Officer.

- **Regulation IV, Rule 402**: Nuisance. A person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health or

safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property.

- **Regulation IV, Rule 403**: Fugitive Dust. The developer or contractor is required to implement Best Available Control Measures for all sources, and all forms of visible PM are prohibited from crossing any property line.

- **Regulation XI, Rule 1113**: Architectural Coatings. The manufacturer, distributor, and end user of architectural and industrial maintenance coatings to reduce volatile organic compounds (VOC) emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

- **Regulation XII, Rule 1186**: PM_{10} Emissions from Paved and Unpaved Roads, and Livestock Operations. The purpose of this rule is to reduce the amount of PM entrained in the ambient air as a result of vehicular travel on paved and unpaved public roads.

- **Regulation XIII, Rule 1301**: New Source Review, General. The purpose of this rule is to set forth pre-construction review requirements for new, modified, or relocated facilities, to ensure that the operation of such facilities does not interfere with progress in attainment of the NAAQS, and that future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal of this regulation is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors.

- **Regulation XIV, Rule 1401**: New Source Review of Toxic Air Contaminants. The rule specifies limits for maximum individual cancer risk, cancer burden, and noncancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units which emit toxic air contaminants.

- **Regulation XIV, Rule 1403**: Asbestos Emissions from Demolition/Renovation Activities. The owner or operator of any demolition or renovation activity is required to have an asbestos study performed prior to demolition and to provide notification to SCAQMD prior to commencing demolition activities.

Toxic Air Contaminants

At the local level, air districts may adopt and enforce CARB control measures for TACs. Under SCAQMD Rule 201 ("Permit to Construct"), Rule 203 ("Permit to Operate"), Rule 1301 ("New Source Review, General"), Rule 1401 ("New Source Review of Toxic Air Contaminants"), all sources that possess the potential to emit TACs are required to obtain permits from SCAQMD. Permits may be granted to operations the emit TACs if they are constructed and operated in accordance with applicable regulations, including New Source Review standards and air toxics control measures. SCAQMD limits emissions and public exposure to TACs through a number of programs. SCAQMD prioritizes TAC-emitting stationary sources based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors. Sensitive receptors are people, or facilities that generally house people (e.g., schools, hospitals, residences), that may experience adverse effects from unhealthful concentrations of air pollutants.

Odors

Although offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable stress among the public and often generating citizen complaints to local governments and SCAQMD. SCAQMD's Rule 402 (Nuisance) regulates odorous emissions.

3.3.1 City of Glendale

CITY OF GLENDALE GENERAL PLAN

The City of Glendale General Plan was adopted in 1977 and comprehensively updated in 1986. An Air Quality Element was added in 1994. Adoption of the SGCP would amend the currently adopted General Plan

and revise existing zoning and land use ordinances to be consistent with the goals and vision of the SGCP. Thus, goals and policies included within the City of Glendale General Plan would also apply to all actions occurring within the SGCP. Relevant goals and policies included in the adopted City of Glendale General Plan are described below.

Air Quality Element

Goal 1 Policy Objectives:

a. Reduce Glendale's contribution to regional emissions in a manner both efficient and equitable to residents and businesses, since emissions generated within Glendale affect regional air quality.

c. Comply with the Air Quality Management Plan prepared by the SCAQMD and SCAG.

Goal 3 Policy Objectives:

a. Continue the aggressive programs of recycling, energy conservation, and hazardous waste collection in order to minimize emissions from the Grayson power plant and Scholl Canyon landfill.

e. Provide leadership as a City by utilizing and advancing innovative technology to reduce air emissions.

Goal 4 Policy Objectives:

b. Promote the use of public transportation and non-polluting transportation in standards for new construction.

c. Expand existing public transportation and non-polluting transportation systems and develop new systems in order to reach a greater number of potential users. Continue to seek federal, State, and regional funding sources.

d. Coordinate various transportation modes with transfer facilities to increase convenience.

e. Coordinate non-automobile transportation systems with surrounding jurisdictions.

f. Increase carpooling opportunities in Glendale.

g. Develop incentives for businesses with fewer than 100 employees to reduce vehicle trips. These businesses are not regulated by SCAQMD Rule 1501, but account for the majority of Glendale's work force.

Goal 5 Policy Objectives:

a. Inform the businesses of Glendale on ways to reduce air pollution, both directly, as well as by reducing waste, minimizing energy usage, reducing vehicle trips, and managing truck delivery schedules and routes.

b. Provide incentives for existing and new businesses in Glendale to reduce both stationary and mobile emissions.

c. Assist businesses, schools, and colleges in reducing vehicle trips by using City-operated services and facilities.

d. Continue and expand public/private partnerships which reduce air pollution.

e. Support the use of new air pollution control technologies by Glendale's business community.

f. Assist the business community with environmental regulations through improved communication and technical assistance.

Housing Element

- **Policy 1.3.** Provide higher density residential development in close proximity to public transportation, services, and recreation.
- **Policy 1.4.** Continue to promote residential/mixed used development, including live-work units in appropriate locations.
- **Policy 6.8.** Continue providing brochures and technical assistance that promotes the use of energy conservation features in new and existing dwellings.
- **Policy 6.9.** Continue promoting energy and resource efficiency by implementing the City's residential recycling, bulk item collection, household hazardous waste, horse accounts, backyard composting, chopper rebates, Christmas Tree Recycling, electronics recycling, recycling drop-off and worn composting services/programs.
- **Policy 6.10.** Encourage the use of sustainable building practices in residential developments.
- **Policy 6.11.** Provide opportunities for residential locations and design that encourage transit, pedestrian, bicycle, and other mobility options.

4 ENVIRONMENTAL SETTING

This section includes a discussion of existing air quality conditions within the project area.

4.1 ENVIRONMENTAL SETTING

The project site is located at the eastern end of the San Fernando Valley in Los Angeles County, at the southern base of the Verdugo Mountains; the area is part of the SCAB and under the jurisdiction of the SCAQMD. The SCAB comprises of Orange County, the non-desert regions of Los Angeles County, Riverside County, and San Bernardino County. The ambient concentrations of air pollutant emissions in an air basin are determined by the amount of pollutants emitted and the atmosphere's ability to transport and dilute such emissions. Natural factors that affect transport and dilution include terrain, wind, atmospheric stability, and the presence of sunlight. Therefore, existing air quality conditions in the area are determined by such natural factors as climate, meteorology, and topography, in addition to the level of emissions by existing air pollutant sources.

SCAB is bounded by the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east; the San Diego County to the south; and the Pacific Ocean to the west. The regional climate within the SCAB is considered semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, heavy vehicular traffic, and industrial activities. The local meteorology of the project site and surrounding area is represented by measurements recorded at the Western Regional Climate Center (WRCC) Glendale Stapenhorst station (043450). The normal annual precipitation within SCAB is approximately 16 inches. January temperatures range from a normal minimum of 40 degrees Fahrenheit (°F) to a normal maximum of 65°F. July temperatures range from a normal minimum of 59°F to a normal maximum of 81°F (WRCC 2016).

4.1.1 Criteria Air Pollutants

CARB provides emissions estimates for the portion of Los Angeles County that is within the SCAB in the 2012 inventory – the most recent available inventory. According to this inventory, mobile sources are the largest contributor to the estimated annual average for air pollutant levels of VOC and NO_X, accounting for approximately 54 percent and 86 percent, respectively, of the total emissions. Area-wide sources account for approximately 43 percent and 46 percent of the County's PM_{10} and $PM_{2.5}$ emissions, respectively (CARB 2013).

The SCAB fails to meet the NAAQS for ozone and $PM_{2.5}$; therefore, is considered a federal "nonattainment" area for these pollutants. The SCAB is considered a "nonattainment" area for CAAQS ozone, PM_{10}, and $PM_{2.5}$ (SCAQMD 2016). SCAB's attainment status for the CAAQS and the NAAQS are shown in Table 2. Monitoring data applicable to the project site is provided in Table 3.

Table 2 Attainment Status Designations for South Coast Air Basin

Pollutant	National Ambient Air Quality Standard	California Ambient Air Quality Standard
Ozone	Nonattainment (1-hour) Classification=Extreme	Nonattainment (1-hour)
	Nonattainment (8-hour)[1] Classification=Extreme	Nonattainment (8-hour)
	Nonattainment (8-hour)[2] Classification=Extreme	
Respirable particulate matter (PM_{10})	Attainment (24-hour) Classification = Maintenance	Nonattainment (24-hour)
		Nonattainment (Annual)
Fine particulate matter ($PM_{2.5}$)	Nonattainment (24-hour) Classification = Serious	(No State Standard for 24-Hour)
	Nonattainment (Annual)[3]	Nonattainment (Annual)
	Nonattainment (Annual)[4] Classification = Serious	
Carbon monoxide (CO)	Attainment (1-hour) Classification=Maintenance	Attainment (1-hour)
	Attainment (8-hour) Classification=Maintenance	Attainment (8-hour)
Nitrogen dioxide (NO_2)	Unclassified/Attainment (1-hour)	Attainment (1-hour)
	Attainment (Annual) Classification=Maintenance	Attainment (Annual)
Sulfur dioxide (SO_2)	(Designation Pending) (1-Hour)	Unclassifiable/Attainment (1-hour)
		Unclassifiable/Attainment (24-hour)
Lead (Particulate)	Nonattainment (3-month rolling avg.) Classification=Partial	Attainment (30-day average)
Hydrogen Sulfide	No Federal Standard	Attainment (1-hour)
Sulfates		Unclassifiable (24-hour)

Notes:
[1] 1997 Standard.
[2] 2008 Standard.
[3] 1997 Standard.
[4] 2012 Standard.
Source: SCAQMD 2016

Table 3 Summary of Annual Data on Ambient Air Quality (2014-2016)[1]

	2014	2015	2016
Ozone			
Maximum concentration (1-hr/8-hr avg, ppm)	0.095/0.094	0.074/0.074	0.092/0.078
Number of days State standard exceeded (1-hr/8-hr)	7/6	6/6	4/4
Number of days national standard exceeded (8-hr)	6	6	4
Fine Particulate Matter ($PM_{2.5}$)			
Maximum concentration (24-hour µg/m^3)	59.9	56.4	44.3
Number of days national standard exceeded (24-hour measured)	6	7	2
Respirable Particulate Matter (PM_{10})			
Maximum concentration (µg/m^3)	86.8	88.5	74.6
Number of days State standard exceeded	38	30	21
Number of days national standard exceeded	0	0	0

Notes: µg/m^3 = micrograms per cubic meter; ppm = parts per million

[1] Measurements from the Los Angeles-North Main Street station for ozone, respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$).

Source: CARB 2017

4.1.2 Toxic Air Contaminants

Unlike criteria air pollutants, TACs are pollutants of local concern because they can present harmful effects when they are emitted in close proximity to sensitive receptors.

The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most prominent being diesel PM. Diesel PM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emissions control system is being used. Unlike the other TACs, no ambient monitoring data are available for diesel PM because no routine measurement method currently exists (CARB 2009). However, CARB has made preliminary concentration estimates based on a PM exposure method. This method uses the CARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of diesel PM. In addition to diesel PM, the TACs for which data are available that pose the greatest existing ambient risk in California are benzene, 1,3-butadiene, acetaldehyde, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene (CARB 2009).

Existing stationary sources of TACs within the project area include gasoline dispensing facilities and dry cleaners. Other sources of TACs near the project area include major freeways, associated with the presence of diesel PM emissions from vehicle exhaust. I-5 is located approximately 1,700 feet to the west of the project site; SR-134 is located along the northern edge of the project site; and SR-2 is located along the eastern edge of the project site. A health risk assessment (HRA) was prepared to assess the existing level of cancer risk exposure within the project boundary. See discussion in Section 5.2 (Methods) for sources evaluated.

4.1.3 Odors

Odors are generally regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals can smell very minute

quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; an odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). It is important to also note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

4.1.4 Sensitive Receptors

Land uses considered sensitive to air quality are generally those that include uses where exposure to pollutants could result in health-related risks to individuals. Sensitive receptors are people, or facilities that generally house people (e.g., schools, hospitals, residences), that may experience adverse effects from unhealthful concentrations of air pollutants. Existing sensitive receptors throughout and surrounding the project site include residential receptors, daycares, preschools, elementary schools, middle schools, high schools, hospitals, and senior housing.

5 ENVIRONMENTAL IMPACTS AND RECOMMENDED MITIGATION MEASURES

This section describes the project's effects on air quality. The discussion includes the significance criteria used for determining the level of significance of the effects and a description of the methods and assumptions used to conduct the analysis.

5.1 SIGNIFICANCE CRITERIA

Per Appendix G of the CEQA Guidelines and SCAQMD recommendations, air quality impacts are considered significant if the project would result in any of the following:

- construction-generated criteria air pollutant or precursor emissions to exceed the SCAQMD-recommended thresholds of 100 pounds per day (lb/day) for NO_X, 75 lb/day for VOC, 150 lb/day for PM_{10}, 55 lb/day for $PM_{2.5}$, 150 lb/day for sulfur oxide (SO_X), and 550 lb/day for CO;
- result in a net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SCAQMD-recommended thresholds of 55 lb/day for NO_X and VOC, 150 lb/day for PM_{10}, 55 lb/day for $PM_{2.5}$, 150 lb/day for SO_X, and 550 lb/day for CO;
- conflict with or obstruct implementation of the applicable air quality plan- SCAQMD AQMP and/or SCAG 2016 Regional Transportation Strategy/Sustainable Communities Strategy (RTP/SCS);
- result in short- or long-term local mobile-source CO emissions that exceed 550 lb/day or would violate or contribute substantially to concentrations that exceed the 1-hour CAAQS of 20 parts per million (ppm) or the 8-hour CAAQS of 9 ppm;
- expose sensitive receptors to a substantial incremental increase in TAC emissions that exceed 10 in 1 million for carcinogenic risk (i.e., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater; or
- create objectionable odors affecting a substantial number of people and/or creates an odor nuisance pursuant to SCAQMD Rule 402.

5.2 METHODS

The air quality impact analysis completed for the project was conducted following the methodology and guidance in SCAQMD's *CEQA Air Quality Handbook* (SCAQMD 1993). The analysis also uses SCAQMD's established regional thresholds of significance for air pollutants, which are to be used in the analysis of potential air quality impacts from projects (SCAQMD 2015a). SCAQMD has established significance thresholds for both construction and operational emissions to assess a project's cumulative air quality impacts over the lifetime of the project.

5.2.1 Construction Emissions

Construction emissions of criteria air pollutants and precursors were calculated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.1 computer program (California Air Pollution Control Officers Association [CAPCOA] 2016), as recommended by SCAQMD. The projected build-out of the plan would include an estimated 10,337new dwelling units and 3,765 thousand square feet (Ksf) of non-residential space. Modeling was based on project-specific information where available and default values in CalEEMod that are based on the project's location and land use type

For a conservative analysis, construction was modeled to begin in 2018 as future years are anticipated to have lower emission factors for construction equipment. Development within the SGCP is anticipated to occur over a 24-year period at an annual growth rate of 1.01 percent. However, to evaluate a potential worst-case construction scenario, building permit data for the City of Glendale, provided by the U.S. Census Bureau, for the year 2000 through 2015 was used to identify a year in which above average building construction activity occurred in the City. Using this data, a worst-case construction scenario was derived to evaluate construction activities in a year with above average growth. Further, because individual construction activities (e.g., intensity, schedule) are unknown at this program level analysis, it was assumed that construction phases (e.g., site preparation, grading, building construction) could overlap on any given day, generating maximum daily emission estimates. Construction modeling inputs and assumptions are included in Attachments A and C.

5.2.2 Operational Emissions

Operational emissions of criteria air pollutants and precursors were evaluated in accordance with SCAQMD's *CEQA Air Quality Handbook* (SCAQMD 1993). Emissions estimates included long-term operational emissions of ozone precursors (i.e., NO_X and VOC) associated with mobile-sources (i.e., trip generation) and stationary sources (e.g., area wide and energy consumption). Annual trip generation rate and vehicle miles traveled (VMT) were based on information in the project-specific traffic study (Fehr & Peers 2017). Construction and operational emissions of criteria air pollutants and precursors were calculated using CalEEMod, as recommended by SCAQMD. Land use assumptions, based on anticipated plan buildout, are summarized in Table 4.

CO impacts were assessed based on recent SCAQMD monitoring data, available screening criteria, and data included in the project-specific traffic study.

The level of health risk from exposure to construction- and operation-related TAC emissions was assessed using SCAQMD's *CEQA Air Quality Handbook* (SCAQMD 1993). The level of health risk from exposure to construction- and operation-related TAC emissions was assessed qualitatively. This assessment was based on the proximity of TAC-generating construction activity to off-site sensitive receptors, the number and types of diesel-powered construction equipment being used, and the duration of potential TAC exposure. Exposure from existing TACs to new land uses proposed under the SGCP was evaluated in the HRA, discussed below.

Table 4 Project Buildout Land Use Assumptions and Operational Activity Data		
Residential Land Uses	du	10,337
Nonresidential Land Uses	Ksf	3,765

Notes: du = dwelling units; Ksf = thousand square feet
Source: City of Glendale 2017

HEALTH RISK ASSESSMENT

An HRA was prepared to assess the existing level of cancer risk within the SGCP. Coordination with SCAQMD and CARB guidance was used to determine sources to include in the HRA. As future development occurs over the period of the plan, the earliest calendar year a proposed sensitive receptor could occupy the project area is 2019. Modeling results disclose the cancer risk impacts to existing and new sensitive receptors from existing mobile-sources of TACs.

As previously stated, existing stationary sources of TACs within the project area include gasoline dispensing facilities and dry cleaners. Other sources of TACs near the project area include major freeways, which are a source of diesel PM emissions from vehicle exhaust. Stationary sources of TACs were not included in the HRA because the primary contributing source in urban areas are vehicle exhaust from major freeways and heavily traveled roads. Diesel PM are believed to be responsible for approximately 70 percent of California's cancer risk attributable to TACs (CARB 2016c).

Based on a review of aerial imagery, the project site is located approximately 1,600 feet from I-5, well beyond the CARB-recommended distance of 500 feet. Exposure is greatly reduced at approximately 300 feet and diminishes with distance (CARB 2005). Furthermore, SCAQMD's 2016 AQMP states that health risks generally decrease about 90 percent at 1,500 feet from the source (SCAQMD 2017). As such, cancer risk levels from I-5 would not contribute substantially to risk within the SGCP and was not included in the HRA.

Vehicle volume data for the surrounding SR-134 and SR-2 were attained from the California Department of Transportation (Caltrans) Performance Measurement System (PeMS) (Caltrans 2017). At the time of this report, 2016 is the most recent data available for SR-134 and 2015 is the most recent traffic data available for I-5 and SR-2. Based on Caltrans data projected for calendar year 2019, average vehicle volumes on SR-134 are as high as 40.9 million vehicles per year or 111,993 vehicles per day (vehicles/day), and SR-2 are as high as 30.5 million vehicles per day or 83,657 vehicles/day.

In addition to high volume freeways, nearby urban roads were also evaluated. The most heavily traveled urban roads within the project area were assessed to determine the annual average vehicle volumes to be compared to CARB guidance. The top four busiest urban roads were assessed. The following projected 2010 vehicle volumes from the City of Glendale Circulation Element of the General Plan (1998) were used and include up to 48,400 vehicles/day on North Central Avenue, 41,300 vehicles/day on North Brand Boulevard, 46,000 vehicles/day on Colorado Street, and 49,700 vehicles/day on Glendale Avenue (City of Glendale 1998). Because existing volumes on nearby urban roads do not exceed CARB-recommendations of 100,000 vehicles/day these roads were not included in the HRA modeling. Freeways or urban roads experiencing 100,000 or more vehicles/day could expose sensitive receptors to adverse health risks (CARB 2005).

In accordance with the California Office of Environmental Health and Assessment's (OEHHA's) *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (2015 Guidance), a 30-year exposure duration is used for estimating cancer risk at a maximum exposed individual resident (MEIR) (CARB 2015). The duration of students attending an elementary school is 7 years (i.e., kindergarten through sixth grade), middle school is 2 or 3 years (i.e., sixth or seventh through eighth grade), and high school is 4 years (i.e., ninth through twelfth grade). The longest duration and the largest age sensitivity factor occur for students at an elementary school; however, 30-year residential cancer risk impacts are more conservative than 7-year elementary school student cancer risk impacts because residential cancer risk assumes a higher exposure frequency, longer averaging time, longer exposure frequency, longer fraction of time at home, and age bins with higher breathing rates and age sensitivity factors, compared to school health risk

assessment. Further, 30-year residential cancer risk includes fetuses in the 3rd trimester through age 30, while 7-year elementary school student only includes age 6 through age 12. Children ages 0 to 2 have the highest breathing rate at 1,090 liters per kilograms body weight-day (L/kg-day), while the OEHHA 2015 Guidance recommends a breathing rate of 520 L/kg-day for school children. Third trimester fetuses and children ages 0 to 2 have the highest age sensitivity factor of 10, while children ages 2 to 9 age sensitivity factor of 3. Residential exposure frequency is 350 days, while school children are assumed to attend school 5 days per week for 36 weeks less 3 weeks of holiday, or 165 days per year. Therefore, 30-year residential cancer risk was used to evaluate potential cancer risk impacts at a residential and student receptor.

Dispersion modeling was conducted with CARB-approved AERMOD Version 15181 (EPA 2016). Dispersion modeling was conducted in AERMOD with a unit emission rate of 1.0 gram per second (g/s) for all modeled sources. This approach enabled the output files to be assigned appropriate emission rates and cancer risk values to estimate diesel PM concentrations and cancer risk levels from each individual source at each receptor location. Due to the programmatic analysis of the SGCP and because future potential residential and school children receptor locations are unknown, 30-year residential cancer risk impacts were modeled across the entire project site to conservatively assess the cancer risk levels for residents and students that could be placed anywhere within the SGCP.

The following AERMOD input parameters were used in all model runs:

- Projected Coordinate System: Universal Transverse Mercator zone 11
- Geographic Datum: World Geodetic System of 1984
- Urban land use, 2008 Census Los Angeles County population data (SCAQMD 2014a)
- Period annual averaging of concentrations for the entire years of 2008 through 2012
- Unit emission rate of 1.0 g/s
- United States Geological Survey (USGS) National Elevation Database 1/3 terrain data

Pre-processed meteorological data collected at the Burbank Monitoring Station obtained from SCAQMD (SCAQMD 2014b) was used for all dispersion modeling. Burbank is the nearest and most representative meteorological station to the project property. Dispersion modeling applied a time-averaged, simplified representation of turbulent, atmospheric transport to approximate how pollutants are carried, mixed, dispersed, and diluted by the local winds.

In accordance with SCAQMD Guidance for project areas greater than 100 acres, a receptor grid with 100-meter spacing was placed across the project site to estimate the level cancer risk from nearby SR-134 and SR-2 (SCAQMD 2015b). The volume source and receptor elevations were obtained from USGS Digital Elevation Model/Geological Information System (DEM/GIS) data.

SR-134 and SR-2 were modeled as a line of separated volume sources for each direction of the freeways. The freeway segment in each direction was traced as a volume line source in AERMOD. The modeled freeway width (i.e., mixing zone) is equal to the width of the freeway segment at 48 feet plus 10 feet to account for the wake of moving vehicles. The release height was modeled at 3 meters to represent the average height of diesel-fueled trucks. The freeways were modeled at grade.

The segments modeled of westbound and eastbound SR-134 were 25,600 feet long, and the segments modeled of northbound and southbound SR-2 were 32,100 feet long. To avoid any exclusion zones, the segment lengths extend beyond the project area and is sufficient to capture the worst-case maximum impact on the project area. Freeway modeling parameters are summarized in Table 5.

Table 5 Freeway Modeling Parameters

AERMOD Input Field	User Inputs
Source type	Line Volume, Separated, Surface-Based
Plume Width	Shoulder-to-shoulder distance of Freeway Segment (48 feet) plus 10 feet
Plume Height	5 meters
Release Height	3 meters
Emission Rate	1.0 gram per second

A PM_{10} emission factor was developed using CARB Mobile-Source Emission Factor Model (EMFAC2014) (CARB 2011) in Los Angeles County for the calendar year 2019. It was assumed the fleet mix information contained in the EMFAC2014 for Los Angeles County would be representative for the City of Glendale. The technological and regulatory advances of vehicles is unknown; therefore, the PM_{10} emission rates were conservatively calculated for calendar year 2019 because the vehicle fleet would be older, less-efficient, and higher emitting as compared to future years where emission factors are expected to go down. Furthermore, the decreases in PM_{10} emission rates due to fleet turnover would be much greater than the projected vehicle growth rate over the project buildout period. Emission rates of PM_{10} emitted by diesel-fueled vehicles were used to represent diesel PM emissions. PM_{10} emissions from other sources (e.g., brake/tire-wear, gasoline vehicle exhaust, idling, etc.) were not included. Vehicle volume data for SR-134 and SR-2 were attained from the Caltrans PeMS Version 15.1.0 (Caltrans 2017). As previously stated, 2016 is the most recent data available for SR-134 and 2015 is the most recent traffic data available for SR-2. The vehicle volume was projected for calendar year 2019 based on historical traffic data. The PM_{10} emission factor from EMFAC2014 for each vehicle fleet representative of Los Angeles County were multiplied by the vehicle volume to develop the annual diesel PM emission rate, expressed in pounds per year (lb/yr). The diesel PM emission rate for each freeway direction were calculated separately because vehicle volume differs by freeway direction. The annual diesel PM emission rates are summarized in the table below.

Table 6 Freeway Diesel Particulate Matter Annual Emission Rates in Calendar Year 2019

Freeway Segment	Westbound/Northbound[1] (lb/year)	Eastbound/Southbound[1] (lb/year)
State Route 134	729.48	849.13
State Route 2	1,026.65	1,134.72

Notes: lb/year = pounds per year

[1] State Route 2 are oriented north and south, and State Route 134 is oriented east and west.

Source: Caltrans 2017, emissions estimated by Ascent Environmental in 2017

The estimates of potential residential cancer risk were prepared in accordance with OEHHA's 2015 Guidance. OEHHA's 2015 Guidance recommends a 30-year exposure period for estimating cancer risk at the residential receptor. The cancer risk was calculated separately for specified age groups based on age differences in sensitivity to carcinogens and age differences in intake rates (OEHHA 2015). The cancer risk was estimated in the Hotspots Analysis and Reporting Program Version 2 (HARP2) (CARB 2016b). Because diesel PM is the only pollutant assessed in HARP2, only the inhalation pathway was assessed. The risk scenario was consistent with SCAQMD and CARB-recommended approach as described below:

Table 7	Cancer Risk Scenario Parameters for 30-Year Residential Cancer Risk[1]
Site Parameters	30-year Residential Model Selection
Analysis Type	Cancer risk
Receptor Type	Individual resident
Exposure Duration	30-year
Intake Rate Percentile	RMP – Inhalation Only

Notes: OEHHA = California Office of Environmental Health and Assessment; RMP = Risk Management Policy; SCAQMD = South Coast Air Quality Management District

[1]Analysis prepared consistent with SCAQMD Guidance (SCAQMD 2015b) and OEHHA's 2015 Guidance (OEHHA 2015)

Odors

Impacts related to odors were assessed qualitatively, based on proposed construction activities, equipment types and duration of use, overall construction schedule, distance to nearby sensitive receptors, and proposed land uses types. Specific land use types and locations are not known and, therefore, odor impacts are assessed in a general manner.

5.3 ENVIRONMENTAL IMPACTS

Impact AQ-1: Construction emissions of criteria air pollutants and precursors (VOC, NO_X, PM_{10}, and $PM_{2.5}$).

Construction activities associated with buildout of the plan would result in emissions of VOC, NO_X, PM_{10}, $PM_{2.5}$, SO_X, and CO from site preparation (e.g., excavation, clearing), off-road equipment, material and equipment delivery trips, and worker commute trips, and other miscellaneous activities (e.g., building construction, asphalt paving, application of architectural coatings). Construction emissions of NO_X and PM_{10} could contribute to the existing nonattainment status of the SCAB with respect to the CAAQS and NAAQS for ozone, the CAAQS for PM_{10} and the NAAQS for $PM_{2.5}$. This would be a **potentially significant** impact.

Construction-related activities associated with development occurring within the SGCP would result in emissions of ROG, NO_X, SO_x, CO, PM_{10}, and $PM_{2.5}$ from site preparation (e.g., excavation, clearing), off-road equipment, material delivery, worker commute trips, and other miscellaneous activities (e.g., building construction, asphalt paving, application of architectural coatings). Fugitive dust emissions of PM_{10} and $PM_{2.5}$ are associated primarily with site preparation and vary as a function of soil silt content, soil moisture, wind speed, acreage of disturbance, and mobile-sources. Emissions of ozone precursors are emitted in the exhaust of construction equipment and on-road vehicles. Paving and the application of architectural coatings also results in off-gas emissions of VOC. PM_{10} and $PM_{2.5}$ are also contained in equipment and vehicle exhaust.

Typical construction activities would require all-terrain forks, fork lifts, cranes, pick-up and fuel trucks, compressors, loaders, backhoes, excavators, dozers, scrapers, pavement compactors, welders, concrete pumps, concrete trucks, and off-road haul trucks, as well as other diesel-fueled equipment as necessary. As discussed above, specific construction phasing and intensity is unknown. Further, based on the anticipated SGCP gradual buildout rate of about 1.0 percent, emissions from individual development construction may not exceed applicable SCAQMD daily thresholds, depending on specific project size and construction phasing/schedule. However, these details are not available at this program-level analysis and, therefore, a worst-case construction day, where multiple construction activities could occur at one time was evaluated. Based on anticipated land uses, daily maximum emissions were estimated for the construction of residential and nonresidential land uses. Table 8 below includes the land use types and quantities used to estimate construction emissions and Table 9 includes modeled worst-day construction emissions.

Table 8 Construction Land Use Assumptions

Residential Land Uses (du)	673
Nonresidential Land Uses (sf)	266,071

Notes: du = dwelling units; sf = square feet

Source: City of Glendale 2017

Table 9 Modeled Maximum Construction Emissions of Criteria Air Pollutants and Precursors during Worst-Case Year (2018)

Construction Phase	Maximum Daily Emissions (lb/day)					
	VOC	NO_X	PM_{10}	$PM_{2.5}$	SO_X	CO
Demolition	4	38	2	2	<1	23
Site Preparation	5	48	21	12	<1	22
Grading	5	60	13	6	<1	36
Building Construction	6	40	9	4	<1	53
Paving	2	17	1	<1	<1	15
Architectural Coating	35	2	1	<1	<1	8
Maximum Daily Emissions	**57**	**205**	**47**	**25**	**<1**	**157**
SCAQMD Threshold of Significance	75	100	150	55	150	550
Exceed Significance Threshold?	No	Yes	No	No	No	No

Notes: Notes: CO = carbon monoxide; lb/day = pounds per day; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; SO_X = sulfur oxide; VOC = volatile organic compounds

See Attachments A and C for detailed input parameters and modeling results.

Source: SCAQMD 2015a; Modeling performed by Ascent Environmental 2017

As shown in Table 9, maximum daily emissions of NO_x could potentially exceed applicable mass emission threshold of 100 lb/day. Daily emissions of VOC, PM_{10}, $PM_{2.5}$, SO_X, and CO would not exceed the respective thresholds. Additionally, due to the nonattainment status of the SCAB with respect to the NAAQS and CAAQS for ozone, construction-generated NO_x emissions, an ozone precursor, may result in adverse air quality impacts to existing surrounding land uses and may contribute to the existing adverse air quality condition in the SCAB. Therefore, construction emissions could contribute to the existing nonattainment condition in the SCAB with respect to the CAAQS and NAAQS for ozone. This would be a **potentially significant** impact.

Mitigation Measure AQ-1: Recommended policies to reduce construction emissions

The following goals and policies are recommended to reduce construction-related emissions.

Goal AQ-1. Minimize construction exhaust emissions.

- **Policy AQ-1.** Require conditions of approval for construction projects near receptors and/or that would generate substantial levels of mass emission to implement emissions reduction strategies such as:
  - Install PM or other exhaust reducing filters on generators;
  - Require construction contractors to use off-road equipment that meets CARB's most recent certification for off-road diesel engines or Best Available Control Technology;

- Use of electric-powered construction equipment;
- Phase construction activities;
- Provide grid or renewable electricity in place of generators;
- Use alternative fuel such as high performance renewable diesel for construction equipment and vehicles;
- Ensure that construction equipment is maintained and tuned according to manufacturer specifications.
- Require construction contractors to provide clear signage that posts the California Code of Regulations, Title 13, section 2449 (d) (3) and 2485 requirement to reduce idling time to 5 minutes or less at construction sites.

- **Policy AQ-2.** Encourage area businesses, residents, and partnering organizations to provide information about best management practices that can be implemented on a voluntary basis to reduce exposure of sensitive receptors to TACs which encourage voluntary reduction of construction exhaust emissions, as well as exposure to these emissions.

Goal AQ-3. Maintain ambient air quality standards.

- **Policy AQ-3.** The City will continue to work with CARB and SCAQMD in order to protect residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution.

Goal AQ-4. Reduce construction emissions from new development.

- **Policy AQ-4.** The City shall review proposed development projects to ensure projects incorporate feasible measures that reduce construction emissions for VOC, NO_X, and particulate matter (PM_{10} and $PM_{2.5}$) through project design.

Significance after Mitigation

Adoption of the recommended goals and policies included in Mitigation Measure AQ-1 would result in a reduction of construction-related emissions for future proposed development within the SGCP. Incorporation of renewable diesel can result in up to a 14 percent reduction in NOx and the use of Tier 4 engines can reduce NOx by up to 93 percent over lower tier engines. Nevertheless, because of the likely scale and extent of construction activities that would occur, as well as the uncertainty of specific construction activities and timing, construction activities could overlap, resulting in emissions that exceed SCAQMD's daily construction thresholds and contribute further to the nonattainment status of the SCAB. This impact would remain **significant and unavoidable**.

Impact AQ-2: Long-term operational emissions of air pollutants.

Buildout of the SGCP would result in new land use development within the City of Glendale, including residential and nonresidential land uses. Increased development would result in long-term operational emissions of VOC, NO_X, PM_{10}, $PM_{2.5}$, SO_X, and CO from increases in vehicular trips, area sources, and stationary sources. Based on modeling conducted for the SGCP buildout year, daily operational emissions could exceed SCAQMD-recommended mass emission thresholds and, therefore, could conflict with the air quality planning efforts and contribute substantially to the nonattainment status of the SCAB with respect to the CAAQS and NAAQS for ozone and $PM_{2.5}$, the CAAQS for Ozone, PM_{10}, and $PM_{2.5}$. This would be **potentially significant** impact.

Operations associated with the project would result in the generation of long-term operational emissions of VOC, NO_X, PM_{10}, $PM_{2.5}$, SO_X and CO as a result of mobile, stationary, and area sources. Mobile-source emissions would result from new vehicle trips generated by anticipated land use development (i.e., 10,337 new dwelling units and associated non-residential development). Stationary and area-wide sources would include the combustion of natural gas for space and water heating (i.e., energy use), the use of landscaping equipment and other small equipment, the periodic application of architectural coatings, and the use of consumer products. Proposed land uses for the SGCP, used for conducting the operational emissions modeling, are shown in Table 4 above.

Table 10 summarizes the maximum daily operational-related emissions of criteria air pollutants during the summer season (higher emissions scenario). Emissions were calculated based on trip rates and trip lengths from the project-specific traffic study (Fehr & Peers 2017).

Table 10 Summary of Maximum Operational Emissions of Criteria Air Pollutants and Precursors at Full Buildout (2040)

Source Type	Maximum Daily Emissions (lb/day)					
	VOC	NO_X	PM_{10}	$PM_{2.5}$	SO_X	CO
Area[1]	3,096	224	794	794	13	6,107
Energy	9	84	7	7	<1	58
Mobile	99	713	437	118	5	888
Total	**3,205**	**1,021**	**1,238**	**919**	**19**	**7,054**
SCAQMD Threshold of Significance[2]	55	55	150	55	150	550
Exceed Significance Threshold?	Yes	Yes	Yes	Yes	No	Yes

Notes: Total values may not add correctly due to rounding.

CO = carbon monoxide; lb/day = pounds per day; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; SO_X = sulfur oxide; VOC = volatile organic compounds

[1] Area-source emissions include emissions from landscaping, application of architectural coatings, and consumer products, and are estimated based on default model settings.

[2] Mass emission significance criteria apply to the sum of area, energy, and mobile sources.

See Attachment A and C for detailed input parameters and modeling results.

Source: SCAQMD 2015a; Modeling performed by Ascent Environmental 2017

As shown in Table 10, operation-related activities would result in emissions of VOC, NO_x, PM_{10}, $PM_{2.5}$, and CO that exceed the SCAQMD-recommended thresholds of significance. Thus, VOC, NO_x, PM_{10}, $PM_{2.5}$, and CO emissions generated under full buildout of the project may result in adverse air quality impacts to existing surrounding land uses and may contribute to the existing adverse air quality condition in the SCAB. This would be a **potentially significant** impact.

Mitigation Measure AQ-2: Recommended policies to reduce operational emissions

The following goals and policies are recommended policies to reduce operational emissions.

Goal AQ-5. Promote local growth patterns and sustainable development practices through adoption of Community Plans to improve quality of life, traffic congestion, and reduce transportation VMT.

- **Policy AQ-5**. Create a more multi-modal transportation network of comprehensive, integrated, and connected network of transportation facilities and services for all modes of travel, which would lead to reduced VMT, thereby reducing operational emissions.

- **Policy AQ-6.** Provide a complete streets design that balances the diverse needs of users of the public right-of-way, which would reduce VMT, thereby reducing operational emissions.

- **Policy AQ-7.** Provide and manage a balanced approach to parking that meets economic development and sustainability goals by reducing parking requirements, reducing parking demand, managing parking supply, and requiring alternative fuel vehicle parking.

- **Policy AQ-8.** Implement traffic calming features such as sidewalks, protected bike lanes, reduced speed limits, narrow lane widths, and roundabouts.

- **Policy AQ-9**. Facilitate transit-oriented land uses and pedestrian-oriented design to encourage transit ridership.

- **Policy AQ-10.** Support high-density transit-oriented development within the City to improve transit ridership and to reduce automobile use and traffic congestion.

Goal AQ-6. Reduce operational emissions from new development.

- **Policy AQ-11.** The City shall review proposed development projects to ensure projects incorporate feasible measures that reduce operational emissions for VOC, NO_X, and particulate matter (PM_{10} and $PM_{2.5}$) through project design.

- **Policy AQ-12.** Encourage the use of low or no VOC-emitting materials.

Significance after Mitigation

Implementation of Mitigation Measure AQ-2 would reduce operational emissions; however, due to the lack of project-specific information (e.g., land use size and type, operational year) the effectiveness in reducing operational emissions cannot be quantified. Further, future development in the project area and the associated operations may contribute to the nonattainment status of the SCAB with respect to the NAAQS and CAAQS for ozone and $PM_{2.5}$ and CAAQS for PM_{10}. This impact would remain **significant and unavoidable.**

Impact AQ-3: Conflict with or obstruct implementation of the applicable air quality plan.

The applicable air quality plan and regional transportation plan for the project area both include regional growth rate forecasts for employment, households and population in the plan area. The growth rates included in the project are higher than those included in the plans and are therefore inconsistent with these plans. Due to this inconsistency, this impact would be **potentially significant**.

SCAQMD considers a project to be consistent with existing air quality plans and other relevant documents if the project's land use changes and growth rates remain consistent with those in the existing plan. Projects that do not increase dwelling unit density, vehicle trips, or VMT above the projected rates included in relevant air quality plans are not considered to exceed this threshold (SCAQMD 1993). The most relevant and applicable air quality plans for the SGCP is SCAQMD's 2016 AQMP and SCAG's 2016 RTP/SCS. Regional air quality emissions projections used in the SIP and the AQMP are based on the growth projections included in the RTP/SCS. Therefore, projects that are consistent with these growth projections would also be consistent with regional air quality emissions projections and attainment status regarding CAAQS and NAAQS.

Table 11 compares the dwelling units, employment and daily VMT growth rates of the proposed SGCP area and the growth rates included in the SCAG 2016 RTP/SCS. As seen in Table 11, population and employment increases in the SGCP are greater than those included in the growth rates forecasted for the City of Glendale in the SCAG 2016 RTP/SCS. Additionally, the household growth rate in the project area is higher than the regional household growth rates established in the SCAG RTP/SCS.

Table 11 Summary of Project, City and Regional Forecasted Growth Rates

Proposed SGCP Growth	2015	2040	Annual Growth Increase
Dwelling Units	37,903	48,240	1.1%
Population	102,338	130,248	1.1%
Employment	46,511	57,747	1.0%
SCAG RTP/SCS Glendale Forecast	2012	2040	Annual Growth Increase
Dwelling Units	72,400	81,100	0.5%
Population	193,200	214,000	0.4%
Employment	111,300	127,000	0.6%
SCAG RTP/SCS Regional Forecast	2012	2040	Annual Growth Increase
Households	5,885,000	7,412,000	1.0%
Population	18,322,000	22,138,000	0.8%
Employment	7,440,000	9,872,000	1.3%

Notes: SGCP= South Glendale Community Plan, SCAG= Southern California Association of Governments
Source: SCAG 2016; City of Glendale 2017

As the traffic study for the project notes, although project buildout would generate approximately 14 percent more VMT over existing conditions, the project increases dwelling units in the project area by 27 percent and nonresidential land uses by 19 percent over existing conditions, resulting in a net decrease of per capita VMT. Specifically, based on 2015 SGCP population (102,338) and SGCP daily (VMT 3,870,000), existing VMT per capita in the SGCP area is 37.8. Based on project-generated VMT (4,410,000) at plan buildout and future projected population (130,248), VMT per capita in the SGCP is expected to be 33.9, representing a 10.3 percent decrease in VMT/capita which would be consistent with VMT per capita reduction goals of 7.4 percent established by the RTP/SCS. While this per capita VMT reduction helps reduce emissions in the project area, the growth rates included in the project remain higher than those included in the SCAG 2016 RTP/SCS. Due to this inconsistency, this impact would be **potentially significant.**

Mitigation Measures

Implement Mitigation Measures AQ-1 and AQ-2.

Significance after Mitigation

Incorporation of Mitigation Measures AQ-1 through AQ-2, collectively would result in construction and operational related reductions in criteria air pollutants and ozone precursors. Further, policies are recommended that would result in the continued coordination between the City and SCAQMD to work towards meeting regional emissions and per capita VMT levels. In accordance with current City of Glendale General Plan policies and SGCP design guidelines, SGCP development is prioritized in transit-oriented areas and would include various design features and pedestrian amenities that are intended to reduce VMT. Thus, individual future development projects occurring within the SGCP may not conflict with adopted regional air quality plans depending on project specific land use types, location, and estimated emissions, which would be evaluated sometime in the future when development applications are submitted to the City. However, due to the higher growth rates anticipated in the SGCP compared to the adopted AQMP and RTP/SCS, the SGCP would not be consistent with these plans and this impact would remain **significant and unavoidable.**

Impact AQ-4: Mobile-source CO concentrations.

Long-term operational mobile-source emissions of CO potentially generated by vehicle trips associated with development of the project area would not violate or contribute substantially to localized concentrations of CO that exceed the CAAQS or NAAQS for CO. As a result, this impact would be **less than significant**.

Local mobile-source CO emissions near roadway intersections are a direct function of traffic volume, vehicle speed, and traffic delay. A CO hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near intersections. Transport of CO is extremely limited because it disperses rapidly with distance from the source under normal meteorological conditions. However, under stable meteorological conditions, CO concentrations near roadways and/or intersections may reach unhealthy levels adversely affecting nearby sensitive land uses, such as residential units, hospitals, schools, and childcare facilities. CO is a pollutant of localized concern and, therefore, analyzed at the local level. Construction activities are rarely a cause of localized CO impacts because they do not typically result in substantial traffic increases at any one location. This impact focusses on operational-related increases in intersection traffic and is largely based on available guidance from SCAQMD and other air districts in California, CO monitoring and projected data in the SCAB, and the project-specific traffic study (Fehr & Peers 2017).

As discussed in the SCAQMD AQMP and seen in Table 2 above, the SCAB is in attainment for both 1-hour and 8-hour CO concentrations under CAAQS and NAAQS. As the AQMP notes, the SCAB gained attainment status for CO concentrations in 2007 and has remained in attainment status for this pollutant since that time. In 2015, SCAQMD measured CO concentrations at 25 locations in the SCAB as well as two locations that measured near-road CO concentrations. Maximum CO concentrations in Los Angeles County were 3.3 ppm for the 8-hour averaging time in 2015. This concentration is well below the NAAQS 1-hour and 8-hour standards (i.e.,35 ppm and 9 ppm, respectively; SCAQMD 2017). As part of the AQMP, SCAQMD also modeled future pollutant emissions within the SCAB based on population growth rates, current air quality regulations and other key factors for the year 2031. Modeling results found that although on-road mobile emissions continue to be a major contributor of CO and NO_X emissions, current rules and regulations on mobile source emissions will result in a decrease in CO concentrations within the SCAB by 2031 and will not impact the attainment status for CO (SCAQMD 2017:3-19).

Given that SCAB has been in attainment for CO since 2007 and is not projected to exceed CAAQS or NAAQS within SCAB, it is highly unlikely that adoption of the SGCP would result in localized CO impacts, considering that the SGCP is only a small fraction of the entire SCAB. Nonetheless, CO impacts are further analyzed using available screening criteria and methods by SCAQMD and other air districts in California, such as the Sacramento Metropolitan Air Quality Management District (SMAQMD). SCAQMD recommends a localized CO analysis for projects that would result in an intersection level-of-service (LOS) deterioration to LOS E or F or results in a volume to capacity ratio increase of more than 2 percent when comparing project conditions to existing conditions. Based on the traffic study prepared for the project, numerous intersections would experience LOS deteriorations to LOS D, E, and F. See Table 17 in the project-specific traffic study (Fehr & Peers 2017), for a list of all intersections affected by the project. Based on the LOS modeling included in the traffic study for all project-affected intersections, the intersection that would experience the highest volumes as a result of project buildout would be San Fernando Road & Los Feliz Boulevard with 4,300 vehicles per hour (VPH) during the P.M. peak hour. The intersection that would experience the largest decrease in LOS would be Brand Boulevard and Los Feliz Road, going from LOS B to F for the A.M. peak hour and from LOS C to F in the P.M. peak hour, with VPH volumes of 3,260 in the A.M. peak hour and 3,720 VPH in the P.M. peak hour (Fehr & Peers 2017).

Screening criteria, based on CO dispersion modeling, has been developed by the SMAQMD that can be used to conduct a conservative analysis of local intersections within their jurisdiction. According to SMAQMD, a project would result in a less-than-significant CO impact if the project would not result in an affected intersection experiencing more than 31,600 vehicles per hour (SMAQMD 2016). Because the criteria were based on existing background levels of CO and evaluated the needed total vehicle volume, that when

combined with existing CO levels, could trigger a CO hotspot, the screening criteria is adaptable to other locations within California. That is, if background levels within the project area are similar or below to those that were used in the modeling conducted by SMAQMD, it would follow that the same or more vehicles would be needed to result in similar impacts as identified in the screening criteria.

SMAQMD screening volumes of 31,600 VPH were based on background CO concentrations of 7.3 ppm (1-hour) and 4.2 ppm (8-hour), both higher than existing background levels in Los Angeles County of 3.3 ppm (SMAQMD 2016). Thus, intersection volumes would need to exceed 31,600 to result in potential CO impacts. As discussed above, the project would result in a maximum intersection volume of 4,300, well below the applicable screening levels.

Using established CO impact screening methodologies, traffic study results for the project show that future CO emissions associated with the project would not exceed CO hotspot concentration thresholds established by SCAQMD. Furthermore, the project would not contribute traffic to a tunnel, parking garage, bridge underpass, urban street canyon, below-grade roadway, or other location in which horizontal or vertical mixing of mobile-source CO emissions would be substantially limited. Additionally, the project would not result in a mix of vehicle types at the intersection that is substantially different from the County average (as identified by EMFAC or CalEEMod). Thus, project-generated local mobile-source CO emissions would not result in or substantially contribute to concentrations of CO that exceed the 1-hour or 8-hour CAAQS and NAAQS. As a result, this impact would be **less than significant.**

Mitigation Measures

None required.

Impact AQ-5: Exposure of sensitive receptors to TACs.

Development of the project would result in additional traffic on local roadways as well as new stationary sources associated with land use development. In addition, new development could involve siting sensitive receptors near freeways or existing TAC sources. This impact would be **potentially significant**.

The exposure of sensitive receptors for TAC emissions from project-generated construction and operational sources is discussed separately below. The TAC that is the focus of this analysis is diesel PM because it is the TAC of primary concern when evaluating health risk. Although other TACs exist (e.g., benzene, 1,3-butadiene, hexavalent chromium, formaldehyde, methylene chloride), they are primarily associated with industrial operations.

Construction

Construction-related activities associated with the project would result in temporary, intermittent emissions of diesel PM from the exhaust of off-road heavy-duty diesel equipment use for site preparation (e.g., demolition, clearing, grading); paving; application of architectural coatings; on-road truck travel; and other miscellaneous activities. For construction activity, diesel PM is the primary TAC of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations.

Diesel PM was identified as a TAC by CARB in 1998. The potential cancer risk from the inhalation of diesel PM outweighs the potential for all other health impacts (i.e., non-cancer chronic risk, short-term acute risk) and health impacts from other TACs (CARB 2003). With regards to exposure of diesel PM, the dose to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher level of health risk for any exposed receptor. According to OEHHA's 2015 Guidance, which determine the exposure of sensitive receptors to TAC emissions, should be based on a 30-year exposure period for estimating cancer risk at the MEIR, with 9- and 70-year exposure periods at the MEIR as supplemental

information. Furthermore, 70-year exposure period is required for estimating cancer burden or providing an estimate of population-wide risk (OEHHA 2015:8-1).

The use of off-road heavy-duty diesel equipment would be limited to the construction phase. As construction progresses, activity intensity and duration would vary throughout individual construction sites throughout the SGCP. As such, it is unlikely that diesel PM-emitting construction activity would not take place near any single existing or future receptor for extended periods of time. Further, policies recommended by Mitigation Measure AQ-1 would further reduce exhaust emissions from construction equipment using best available control technology, cleaner fuels, and higher tiered engines.

Existing residential receptors are located throughout the project area. Studies show that diesel PM is highly dispersive, and receptors must be near emission sources to result in the possibility of exposure to concentrations of concern and must be in close proximity for a long duration of time. Given the temporary and intermittent nature of construction activities likely to occur within specific locations in the project area (i.e., construction is not likely to occur in any one part of the project area for an extended time), the dose of any exposure to diesel PM of any one receptor would be limited. Therefore, considering the relatively short duration of diesel PM-emitting construction activity at any one location of the project area, the distance to the nearest off-site sensitive receptors, the highly dispersive properties of diesel PM, and policies in place that would reduce construction-related exhaust emissions, construction-related TAC emissions would not expose residences to substantial concentrations.

Operations

The operational TAC analysis evaluates new sources associated with SGCP buildout (e.g., increased vehicular traffic, stationary or commercial land uses) and the placement of new sensitive receptors in close proximity to existing TAC sources. The analysis is based on available guidance from CARB and SCAQMD shown below in Table 12.

Table 12 California Air Resources Board Recommendations on Siting New Sensitive Land Uses Such as Residences, Schools, Daycare Centers, Playgrounds, or Medical Facilities

Source Category	Advisory Recommendations
Freeways and High-Traffic Roads	◢ Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day
Distribution Centers	◢ Avoid siting new sensitive land uses within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with TRUs operating per day, or where TRU unit operations exceed 300 hours per week). ◢ Take into account the configuration of existing distribution centers and avoid locating residences and other new sensitive land uses near entry and exit points
Rail Yards	◢ Avoid siting new sensitive land uses within 1,000 feet of a major service and maintenance rail yard. ◢ Within one mile of a rail yard, consider possible siting limitations and mitigation approaches
Ports	◢ Avoid siting of new sensitive land uses immediately downwind of ports in the most heavily impacted zones. Consult local air districts or the CARB on the status of pending analyses of health risks.
Refineries	◢ Avoid siting new sensitive land uses immediately downwind of petroleum refineries. Consult with local air districts and other local agencies to determine an appropriate separation.
Chrome Platers	◢ Avoid siting new sensitive land uses within 1,000 feet of a chrome plater

Table 12 California Air Resources Board Recommendations on Siting New Sensitive Land Uses Such as Residences, Schools, Daycare Centers, Playgrounds, or Medical Facilities

Source Category	Advisory Recommendations
Dry Cleaners Using Perchloroethylene	◢ Avoid siting new sensitive land uses within 300 feet of any dry-cleaning operation. For operations with two or more machines, provide 500 feet. For operations with 3 or more machines, consult with the local air district. ◢ Do not site new sensitive land uses in the same building with perc dry cleaning operations.
Gasoline Dispensing Facilities	◢ Avoid siting new sensitive land uses within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater). A 50-foot separation is recommended for typical gas dispensing facilities.

Notes: CARB = California Air Resources Board; TRU = transport refrigeration unit; vehicles/day = vehicles per day

Source: CARB 2005

Operation of new land uses could generate new sources of TACs from commercial and industrial land uses (e.g., gasoline dispensing facilities and dry cleaners). Land uses that have the potential to generate stationary source emissions would be required to obtain a permit from SCAQMD. If the facility has the potential to generate health risks above established risk levels, facilities are required to distribute public notifications to both residential, nonresidential, and parents of children attending school within the area of impact and develop and implement a risk reduction plan. Due to the program level scope of this analysis, specific land use types and location of future development are not available. However, it is possible that future development within the SGCP could result in new stationary sources associated with commercial and industrial land use development, that could result in TAC exposure to existing or future planned sensitive land uses.

In addition to new stationary sources, the SGCP would result in an increase in 619,500 vehicle trips, distributed over the project-affected roadways and intersections. In accordance with CARB guidance, high volume roads and freeways are the primary sources of TACs within urban areas. Freeways or urban roads experiencing 100,000 or more vehicles/day could expose sensitive receptors to adverse health risks. Although all project-generated trips would not occur on any single road, the project would result in a substantial increase in trips to the surrounding roadway network and therefore could result in a substantial increase to existing health risk levels associated with vehicular traffic, exposing existing and future planned land uses to increased TAC levels.

With regards to existing TAC levels, an HRA was conducted to characterize existing health risk levels that new development under the SGCP could be exposed to. Existing TAC sources include stationary sources throughout the SGCP and traffic on existing roadways. Existing rail lines are located adjacent to and through the project area. However, consistent with CARB recommendations, rail yards are typically of greater concern regarding TAC emissions than individual rail lines. No rail yards, ports, refineries, distribution centers, or chrome platers are located within the CARB-recommended distances as shown in the table above. However, other stationary sources may exist that could expose new receptors to TAC concentrations. As discussed above, the HRA focused on the primary sources of TACs within the SGCP (i.e., SR-134 and SR-2).

Results of the existing risk levels are included below in Exhibit 3. Exhibit 3 indicates the estimated levels of cancer risk across the project area from a 30-year exposure to diesel PM emitted by SR-134 and SR-2 in the base year 2019. The risk isopleth presented in Exhibit 3 was developed using the cancer risk levels estimated for each point in the receptor grid. Cancer risk is a function of traffic on freeways that carry volumes of vehicle traffic, particularly trucks. As shown in Exhibit 3, cancer risk generally decreases from greater than 100 in a million to 50 in a million at approximately 500 feet from the freeways; furthermore, cancer risk generally decreases from greater than 100 in a million to 30 in a million at approximately 1,000 to 1,500 feet from the freeways.

The City of Glendale General Plan does not include goals or policies that would reduce TAC exposure to existing and future sensitive receptors. Further, SGCP buildout would result in additional stationary and mobile sources of TACs that would contribute to the existing risk level in the project area, thus potentially exposing existing and newly planned development to increased risk levels. This impact would be **potentially significant.**

Mitigation Measures

Mitigation Measure AQ-3: Recommended policies to reduce exposure of new sensitive receptors to pollution sources

Goal HRA-1: Minimize exposure of new sensitive land uses to air toxics

- **Policy HRA-1** The City shall minimize exposure of new sensitive receptors to toxic air contaminants (TACs) and fine particulate matter ($PM_{2.5}$), to the extent possible, and consider distance, orientation, and wind direction when siting sensitive land uses in proximity to TAC- and $PM_{2.5}$-emitting sources in order to minimize exposure to health risk.

- **Policy HRA-2** At the time of discretionary approval of new sensitive land uses proposed in close proximity to existing TAC sources, the City shall require development projects to implement applicable best management practices, as necessary and feasible, that will reduce exposure to TACs and $PM_{2.5}$. Available measures include, but are not limited to, barriers (e.g., vegetation, concrete walls) between the source and the receptor, high efficiency filtration with mechanical ventilation, and portable air filters. Specific reduction measures will be evaluated and determined depending on proposed land uses, proximity to TAC sources, and feasibility.

Significance after Mitigation

Regarding existing TAC sources, air districts regulate stationary permitted sources and mobile-source emissions are regulated by the State's fuel standards. Thus, the City has no authority to control these emissions. Typical measures used to reduce TAC exposure include site design considerations (e.g., locating land uses away from sources, including barriers between sources) or onsite measures such as improved air filtration systems. However, the City has no means or authority to require existing structures to install filtration systems and development currently exists in proximity to TAC sources. Therefore, no TAC reduction measures can reasonably be applied to existing sources. Regarding new development proposed within the SGCP, Goal HRA- 1 is in place that would require the city to minimize exposure to new receptors to the extent feasible and applicable. All new development undergoing discretionary review would be required to evaluate existing TAC exposure and incorporate available reduction measures, if necessary. However, due to the uncertainty of future sensitive receptor locations and the effectiveness of TAC reduction measures, this impact would remain **significant and unavoidable**.

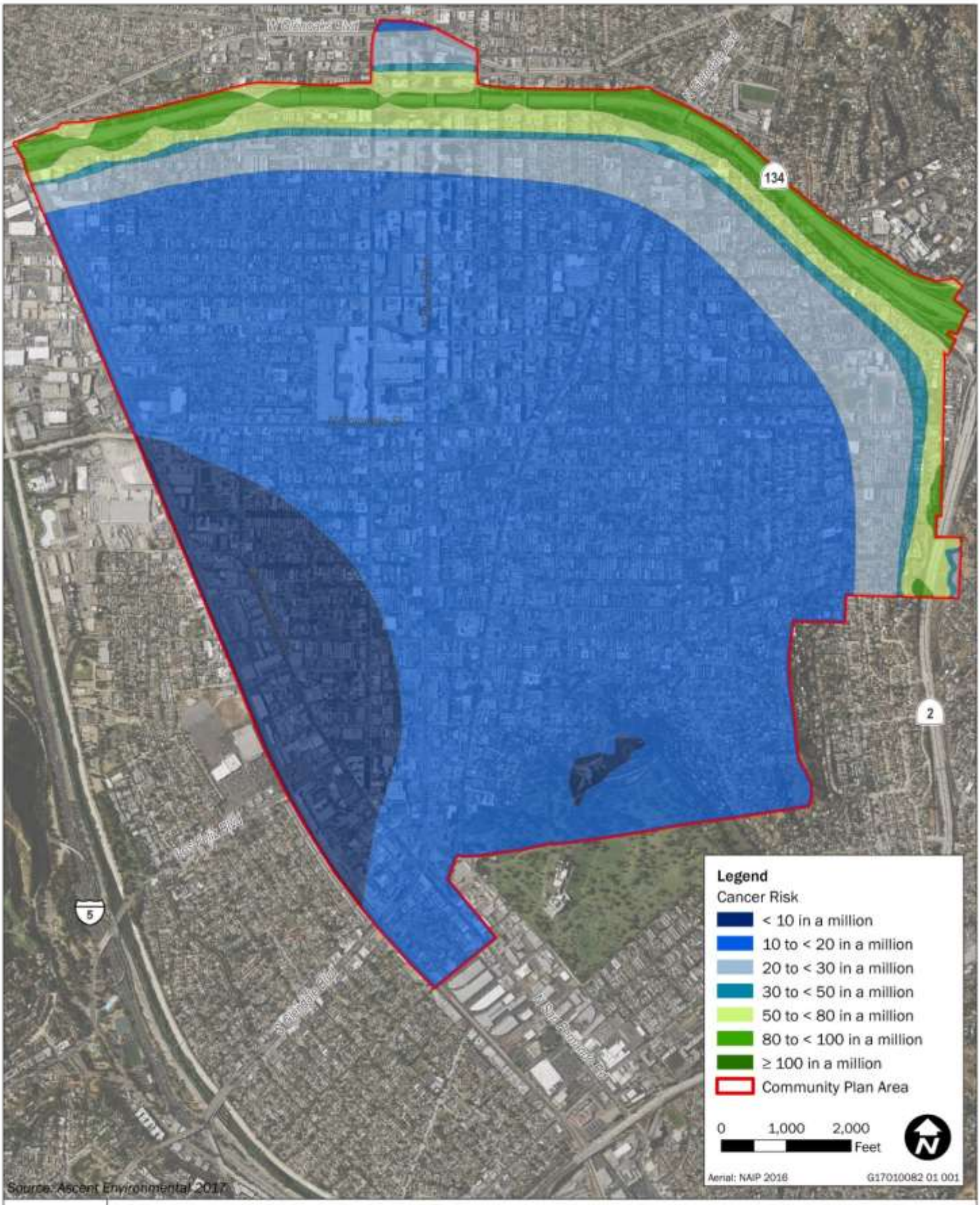

Exhibit 3 Estimated 30-year Residential Cancer Risk (chances in a million exposed persons)

Impact AQ-6: Exposure of sensitive receptors to odors.

Construction and operations associated with the project would introduce new odor sources into the area (e.g., temporary diesel exhaust emissions during construction and delivery trucks associated with commercial land uses). However, these odor sources would be temporary, intermittent, and would largely come from mobile sources. The project includes land use designations that could potentially include future odor-emitting facilities. Receptors located near these land uses may be exposed to odorous emissions in conflict of SCAQMD's Rule 402 (Nuisance), depending upon the land uses developed. As a result, potential exposure of sensitive receptors to odors would be considered a **potentially significant impact.**

The occurrence and severity of odor impacts depends on numerous factors, including: the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of the affected receptors. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress among the public and often generate citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose a substantial number of people to objectionable odors would be deemed to have a significant impact. SCAQMD's Rule 402 (Nuisance) regulates odorous emissions and states that "no person shall discharge any air contaminant that may "cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public" (SCAQMD Rule 402). Odors are evaluated for construction and operation, separately below.

Minor odors from the use of heavy-duty diesel equipment, and the laying of asphalt during project related construction activities would be intermittent and temporary, and would dissipate rapidly from the source with an increase in distance. While construction would occur intermittently over an approximately 24-year buildout period, these types of odor-generating activities would not occur at any single location, or within proximity to off-site receptors, for an extended period.

Facilities developed under the project would be subject to SCAQMD Rule 402 (Nuisance) regarding the control of nuisances, including odors. Receptors located in the general vicinity of such sources may be exposed to odorous emissions. Considering that specific nonresidential land use designations are not included in the project, future nonresidential land uses or specific facilities in the project area may include odor emissions considered a nuisance. Common examples of odor emissions sources from nonresidential land uses in the project area include dry cleaning facilities, food processing facilities or coffee roasting facilities. Proposed land use designations within the SGCP that could potentially generate odor emissions include Industrial/Creative and Mixed-Use designations of varying densities.

As a result, potential exposure of sensitive receptors to odors associated with proposed land uses in the project area and the siting of new sensitive receptors in proximity to existing odor sources would be considered potentially **significant**.

Mitigation Measure AQ-4: Incorporation of design features for nonresidential land uses to address potential odor sources.

The following policies are recommended to reduce odors.

Goal Odor-1: Minimize exposure from odors.

- **Policy Odor-1.** Land uses that have the potential to emit objectionable odorous emissions and conflict with SCAQMD Rule 402 (e.g., dry cleaning establishments, restaurants, and gasoline stations) shall be located as far away as possible from existing and proposed sensitive receptors or downwind of nearby receptors.

- **Policy Odor-2.** If an odor-emitting facility is to occupy space in commercial or retail areas, odor control devices shall be installed to mitigate the exposure of receptors to objectionable odorous emissions. SCAQMD shall be consulted to determine applicable/feasible control devices to be installed. The use of setbacks, site design considerations, and emission controls are typically sufficient to ensure that

receptors located near commercial or retail uses would not be exposed to odorous emissions on a frequent basis.

Significance after Mitigation

Incorporation of the recommended policies would minimize odor exposure to sensitive receptors within the project area by requiring consideration of odor-generating land uses in proximity to existing receptors and requiring additional odor control technology as appropriate. This impact would be reduced to a **less than significant impact.**

5.4 CUMULATIVE IMPACTS

In accordance with the SCAQMD's *CEQA Air Quality Handbook,* impacts would be cumulative in nature if the project, in combination with cumulative development, leads to a cumulatively considerable impact on air quality.

Impact AQ-7: Construction and operational emissions of criteria air pollutants and precursors (VOC, NO_X, PM_{10}, and $PM_{2.5}$).

Impacts would be cumulative in nature if construction and operation of the project, in combination with cumulative development, leads to violation of any air quality standard or contributes substantially to an existing or projected air quality violation. State CEQA Guidelines Section 15130 describes two methods for establishing the cumulative environment in which the project is to be considered: the use of a list of past, present, and probable future projects, or the use of adopted projections from a general plan, other regional planning document, or a certified environmental impact report (EIR) for such a planning document. SCAB is currently in nonattainment for ozone and $PM_{2.5}$ with respect to the NAAQS, and is in nonattainment for ozone, PM_{10}, and $PM_{2.5}$ with respect to the CAAQS.

Future development resulting from implementation of the project have the potential to combine with the physical impacts of other past, present, or other probable future projects in the SCAB, could result in a cumulative impact based upon proximity and construction schedule. Table 3-3 in Chapter 3 Project Description of the EIR contains a list of past, existing, and reasonably foreseeable projects that when combined with the project, could result in a cumulatively considerable effect. If multiple large construction projects occur simultaneously in close proximity, it is possible that impacts associated with air quality violations could result from development of the project.

As discussed under Impact AQ-1 above, construction activities associated with buildout of the plan could result in emissions of ozone precursors and criteria air pollutants, exceeding the applicable thresholds. Due to the nonattainment status of SCAB with respect to the NAAQS and CAAQS for ozone, construction-generated emissions may result in adverse air quality conditions in the SCAB. Ozone impacts are the result of cumulative emissions from numerous sources within and outside the region. Ozone is formed in a chemical reaction involving NO_X and VOC, and in the presence of sunlight. All but the largest individual sources emitting NO_X and VOC in amounts too small to have a measurable effect on ambient ozone concentrations by themselves. However, when sources throughout the region are combined, they can result in severe ozone problems.

As discussed under Impact AQ-2 above, increased development would result in long-term operational emissions of VOC, NO_X, PM_{10}, $PM_{2.5}$, and CO that exceed the applicable thresholds. Thus, VOC, NO_X, PM_{10}, $PM_{2.5}$, and CO emissions generated under full buildout of the project may result in adverse air quality impacts to existing surrounding land uses and may contribute to the adverse air quality conditions in the SCAB.

Implementation of Mitigation Measures AQ-1 through AQ-2 would assist in reducing construction and operational emissions from future development of the project. Although the project would reduce construction and operational emissions to the extent feasible, long-term emission reductions cannot be

quantified or verified, and the possibility remains that emissions may not be reduced to a less than significant level. Project construction and operation may contribute to the nonattainment status of the SCAB and may conflict with the NAAQS and CAAQS. Thus, the project's contribution to cumulative construction and operational air quality impacts is considered **cumulatively considerable**.

Recommended goals and policies included in Mitigation Measures AQ-1 through AQ-2 are being adopted as part of the SGCP. Furthermore, future projects subject to discretionary review would be evaluated under CEQA and required to minimize air quality impacts and demonstrate compliance with the requirements of SCAQMD to reduce emissions. However, on the program level, development size is unknown and emission reductions cannot be quantified or verified. Implementation of mitigation may not be able to fully mitigate impacts to a less-than-significant level. Impacts would remain **significant and unavoidable.** No further mitigation is available.

Impact AQ-8: Conflict with or obstruct implementation of the applicable air quality plan.

Impacts would be cumulative in nature if the project, in combination with cumulative development, conflict with or obstruct the implementation of the SCAQMD AQMP and SCAG 2016 RTP/SCS. State CEQA Guidelines Section 15130 describes two methods for establishing the cumulative environment in which the project is to be considered: the use of a list of past, present, and probable future projects, or the use of adopted projections from a general plan, other regional planning document, or a certified EIR for such a planning document. Regional air quality emissions projections used in the SIP and the AQMP are based on the growth projections included in the RTP/SCS. Therefore, projects that are consistent with these growth projections would also be consistent with regional air quality emissions projections and attainment status regarding CAAQS and NAAQS.

Future development resulting from implementation of the project have the potential to combine with the physical impacts of other past, present, or other probable future projects in the SCAB, could result in a cumulative impact by increasing dwelling unit density, vehicle trips, or VMT exceeding projected rates for the region. Table 3-3 in Chapter 3 Project Description of the EIR contains a list of past, existing, and reasonably foreseeable projects that when combined with the project, could result in a cumulatively considerable effect.

Impacts would be cumulative in nature if they would, in combination with cumulative development, conflict with or obstruct the implementation of SCAQMD's AQMP and SCAG's 2016 RTP/SCS. As discussed under Impact AQ-3 above, regional growth rates associated with the project are higher than those included in the SCAG 2016 RTP/SCS. Therefore, full buildout of the project may contribute to existing adverse air quality conditions in the region resulting in a **cumulatively considerable** effect.

Implementation of Mitigation Measures AQ-1 and AQ-2, collectively, would result in construction and operational emission reductions. Furthermore, future projects would be subject to discretionary review, and as part of thatprocess, all projects would be evaluated under CEQA and required to demonstrate compliance with SCAQMD AQMP and SCAG 2016 RTP/SCS. However, due to the increased growth rate of the SGCP not anticipated in the adopted AQMP or RTP/SCS, the project may conflict with adopted air quality plans in the region. Thus, the project would have a considerable contribution to a significant cumulative impact and this impact would remain **significant and unavoidable.**

Impact AQ-9: Mobile-source CO concentrations.

Impacts would be cumulative in nature if the project, in combination with cumulative development, would violate or contribute substantially to localized concentrations of CO that exceed the CAAQS or NAAQS for CO. State CEQA Guidelines Section 15130 describes two methods for establishing the cumulative environment in which the project is to be considered: the use of a list of past, present, and probable future projects, or the use of adopted projections from a general plan, other regional planning document, or a certified EIR for such a planning document. As discussed in the SCAQMD AQMP and seen in Table 2 above, the SCAB is in attainment for both 1-hour and 8-hour CO concentrations under CAAQS and NAAQS. As discussed in the

SCAQMD AQMP, the SCAB has been designated as attainment for CO since 2007 and is not projected to exceed CAAQS and NAAQS within SCAB.

As discussed under Impact AQ-4 above, long-term operational mobile-source emissions of CO would not violate or contribute substantially to local concentrations of CO that exceed the State and federal ambient air quality standards. Furthermore, the AQMP concluded that mobile source emissions will result in a decrease in CO concentrations within SCAB by 2031 and will not impact the attainment status for CO. This would be a less-than-significant cumulative impact and the project **would not have a considerable contribution** such that a new cumulative impact would occur. No mitigation is necessary.

Impact AQ-10: Exposure of sensitive receptors to TACs.

Impacts would be cumulative in nature if the project, in combination with cumulative development, would expose sensitive receptors to a substantial concentration of TACs that would significant increase cancer risk, or acute or chronic health risks. State CEQA Guidelines Section 15130 describes two methods for establishing the cumulative environment in which the project is to be considered: the use of a list of past, present, and probable future projects, or the use of adopted projections from a general plan, other regional planning document, or a certified EIR for such a planning document. TACs are air pollutants that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. In May 2015, SCAQMD released the final report for Multiple Air Toxics Exposure Studies (MATES) IV, a study consisting of a monitoring program at 10 fixed sites used to characterize risk across the SCAB. The MATES IV estimated population weighted cancer risk is 897 in a million (SCAQMD 2017).

As discussed under Impact AQ-5 above, construction-related activities associated with the project would result in temporary, intermittent emissions of diesel PM from the exhaust of off-road heavy-duty diesel equipment and on-road diesel-powered haul trucks. Mitigation Measure AQ-1 would further reduce exhaust emissions from construction equipment using best available control technology, cleaner fuels, and higher tiered engines. However, construction of the project, in combination with cumulative development, could result in temporary increase in truck trips and heavy-duty construction equipment operation, which could contribute to emissions of TACs and adverse impacts to sensitive receptors.

Development of the project would result in additional traffic on local roadways as well as new stationary sources associated with land use development, such as gasoline dispensing facilities and dry cleaners. Land uses that have the potential to generate stationary source emissions would be required to obtain a permit from SCAQMD. Facilities that generate health risks above established risk levels are required to distribute public notifications and develop and implement a risk reduction plan. Due to the program level scope of this analysis, specific land use types and location of future development are not available. However, it is possible that future development within the SGCP could result in new stationary sources associated with commercial and industrial land use development, that could result in TAC exposure to existing or future planned sensitive land uses. Placement of new sensitive receptors near existing TAC emissions would have the potential to result in a significant cumulative impact. Diesel PM emitted by vehicles traveling on SR-134 and SR-2 would expose new development under the SGCP to cancer risk. Other existing industrial stationary sources include gasoline dispensing facilities and dry cleaners in the SGCP area.

Due to the uncertainty of future sensitive receptor locations and the effectiveness of TAC reduction measures, in combination with other cumulative projects, and the existing level of health risk, the project would have a considerable contribution to a significant cumulative impact, and this impact is considered **cumulatively considerable** and would remain **significant and unavoidable.** No further mitigation is available.

Impact AQ-11: Exposure of sensitive receptors to odors.

Impacts would be cumulative in nature if the project, in combination with cumulative development, would expose sensitive receptors to odorous emissions. State CEQA Guidelines Section 15130 describes two methods for establishing the cumulative environment in which the project is to be considered: the use of a list of past, present, and probable future projects, or the use of adopted projections from a general plan, other regional planning document, or a certified EIR for such a planning document. Odors are localized in nature and cumulative projects would not combine to result in a cumulative odor impact. Furthermore, Cumulative projects located in SCAB would be required to comply with SCAQMD's Rule 402 (Nuisance) that regulates odor emissions.

As discussed under Impact AQ-4 above, potential sources generated by construction activities are temporary, short-term, intermittent, and would cease upon completion of construction. Nonresidential land use designations are not included in the project; however, future nonresidential land uses or specific facilities in the project area may include odor emissions considered a nuisance. Common examples in the project area include dry cleaning facilities, food processing facilities, or coffee roasting facilities. Thus, proposed land use designations, including Industrial/Creative and Mixed-Use designations of varying densities, within the SGCP could potentially generate odor emissions.

Implementation of Mitigation Measure AQ-4 would minimize odor exposure to sensitive receptors within the project area by requiring consideration of odor-generating land uses in proximity to existing receptors and requiring additional odor control technology as appropriate. Construction and operations associated with the project could introduce new stationary and mobile odor sources into the area. However, odor impacts are typically limited to the land uses nearest the source. Further, implementation of the proposed Mitigation Measure AQ-6 would minimize exposure to sensitive receptors. As a result, the project's contribution to cumulative exposure of sensitive receptors to odors **would not be cumulatively considerable**. No mitigation is necessary.

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CAPCOA. *See* California Air Pollution Control Officers Association.

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Appendix A

Diesel Particulate Emissions Level to Use in Dispersion Modeling

Freeway Segment and Vehicle Type	Diesel PM Emission Rate (grams per mile of freeway segment)	X	Vehicle Volume, Annual (vehicles on freeway segment/year)	X	Segment Length (miles)	÷	Mass Conversion Rate (g/lb)	=	Diesel PM Emissions, Annual (lb/year)
Units:									
Worst-Case 2019 Scenario									
SR 134 Eastbound									
Trucks	0.04948	x	1,237,053	x	4.8	÷	453.6	=	647.70
Passenger Vehicles	0.00050	x	38,090,623	x	4.8	÷	453.6	=	201.43
SR 134 Westbound									
Trucks	0.04948	x	990,383	x	4.8	÷	453.6	=	518.55
Passenger Vehicles	0.00050	x	39,887,192	x	4.8	÷	453.6	=	210.93
SR 2 Northbound									
Trucks	0.04948	x	1,281,188	x	6.0	÷	453.6	=	838.51
Passenger Vehicles	0.00050	x	28,461,568	x	6.0	÷	453.6	=	188.14
SR 2 Southbound									
Trucks	0.04948	x	1,439,917	x	6.0	÷	453.6	=	942.40
Passenger Vehicles	0.00050	x	29,094,957	x	6.0	÷	453.6	=	192.32
Source: Selected by HRA modeler.	Worksheet: DPM EMFACs		Applicable traffic vol wksht.		Selected by HRA modeler.		onlineconversion.com		Calculation

1 This spreadsheet is designed to model roadway segments broken down by direction (e.g., north and south) and by vehicle type (i.e., trucks and passenger vehicles).

2 The segment length represents the length of the segment modeled in AERMOD and, therefore, should be determined by the HRA modeler.

3 This approach does not account for the speed of travel of vehicles traveling on the freeway segment, which is available from the Caltrans Performance Measurement System (PeMs). The speed of travel could change over time.

4 It is assumed that the percentage breakdown of trucks traveling on the freeway segment is the same as the percentage breakdown, by VMT, of trucks and buses traveling at speeds of 55 to 70 mph in Los Angeles County, as provided by EMFAC2014.

Freeway Volumes

I-5 Northbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2015	4301816	5.5%	236,600	98.5
2/1/2015	4008064	5.2%	208,419	90.7
3/1/2015	4484300	5.1%	228,699	95.1
4/1/2015	4385138	5.1%	223,642	97.7
5/1/2015	4473182	4.9%	219,186	99.2
6/1/2016	4008090	7.5%	300,607	69.5
7/1/2016	4404045	8.2%	361,132	99.2
8/1/2016	4459882	9.1%	405,849	98.7
9/1/2016	4282791	9.3%	398,300	84.1
10/1/2016	4408364	9.0%	396,753	92.5
11/1/2016	4192795	9.5%	398,316	97.8
12/1/2016	4334042	8.9%	385,730	91.5

I-5 Southbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2016	4008381	3.4%	136,285	44.2
2/1/2016	3545941	2.6%	92,194	33.6
3/1/2016	4262051	4.6%	196,054	58.9
4/1/2016	4239018	5.8%	245,863	62.5
5/1	4639087	9.3%	431,435	NA
6/1	4639087	9.3%	431,435	NA
7/1/2015	4256065	2.8%	119,170	58.4
8/1/2016	4639087	9.3%	431,435	76.8
9/1/2016	4356996	8.9%	387,773	71.5
10/1	4639087	9.3%	431,435	NA
11/1	4639087	9.3%	431,435	NA
12/1	4639087	9.3%	431,435	NA

Baseline Annual Traffic Volumes

Year of Baseline Data: 2015

	I-5 Northbound			I-5 Southbound		
	All Vehicles	Truck Only	Passenger Vehicles Only	All Vehicles	Truck Only	Passenger Vehicles Only
Volumes (veh/year)	51,742,509	3,763,232	47,979,277	52,502,974	3,765,950	48,737,024
Source	summation	summation	calculation	summation	summation	calculation

Average Annual Growth Rate

value	units	source
0.52%	%	select highway segment from wksht: Highway Growth Rates

Projected Future Annual Traffic Volumes

Year	I-5 Northbound		I-5 Southbound	
	Trucks	Pass Veh	Trucks	Pass Veh
2019	3,842,466	48,989,478	3,845,242	49,763,179

Sources/Notes

1 Values in the blue-shaded cells should be input by the user.

2 Data in the grey-shaded cells, including volume data and truck percentages, are from the Caltrans Performance Measurement System (PeMs) system.

3 California Department of Transportation. 2017. PeMs. Downloaded from http://pems.dot.ca.gov/ on July 13, 2017.

Freeway Volumes

SR 134 Eastbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2016	3074774	3.0%	92,243	99.4
2/1/2016	3058161	2.9%	88,687	83.3
3/1/2016	3336734	3.1%	103,439	99.9
4/1/2016	3209001	3.2%	102,688	100
5/1/2016	3282827	3.2%	105,050	99.5
6/1/2016	3248741	3.4%	110,457	99.5
7/1/2016	3241527	3.4%	110,212	94.2
8/1/2016	3364354	3.5%	117,752	94.9
9/1/2016	3202331	3.1%	99,272	99.3
10/1/2016	3309680	3.1%	102,600	87.5
11/1/2016	3129973	2.9%	90,769	99.9
12/1/2016	3191458	2.9%	92,552	98.8

SR 134 Westbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2016	2914792	2.5%	72,870	64.5
2/1/2016	2938098	3.3%	96,957	63.8
3/1/2016	3307720	0.7%	23,154	75
4/1/2016	3496604	1.2%	41,959	88.3
5/1/2016	3344354	7.4%	247,482	40.4
6/1/2016	3302059	4.7%	155,197	51.9
7/1/2016	3560288	1.3%	46,284	82.6
8/1/2016	3714873	2.0%	74,297	92.2
9/1/2016	3417482	2.8%	95,689	74.9
10/1/2016	3503339	1.6%	56,053	70.9
11/1/2016	3304228	1.0%	33,042	75.6
12/1/2016	3368899	0.9%	30,320	75.7

Baseline Annual Traffic Volumes

Year of Baseline Data: 2016

	SR 134 Eastbound			SR 134 Westbound		
	All Vehicles	Truck Only	Passenger Vehicles Only	All Vehicles	Truck Only	Passenger Vehicles Only
Volumes (veh/year)	38,649,561	1,215,722	37,433,839	40,172,736	973,306	39,199,430
Source	summation	summation	calculation	summation	summation	calculation

Average Annual Growth Rate

value	units	source
0.58%	%	select highway segment from wksht: Highway Growth Rates

Projected Future Annual Traffic Volumes

Year	SR 134 Eastbound		SR 134 Westbound	
	Trucks	Pass Veh	Trucks	Pass Veh
2019	1,237,053	38,090,623	990,383	39,887,192

Sources/Notes

1 Values in the blue-shaded cells should be input by the user.

2 Data in the grey-shaded cells, including volume data and truck percentages, are from the Caltrans Performance Measurement System (PeMs) system.

3 California Department of Transportation. 2017. PeMs. Downloaded from http://pems.dot.ca.gov/ on July 13, 2017.

Freeway Volumes

SR 2 Northbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2016	2,265,863	4.1%	92,900	99%
2/1/2016	2,244,365	4.3%	96,508	83%
3/1/2016	2,451,514	4.2%	102,964	97%
4/1/2016	2,380,735	4.3%	102,372	96%
5/1/2016	2,420,318	4.2%	101,653	97%
6/1/2016	2,403,888	4.2%	100,963	85%
7/1/2016	2,391,590	4.1%	98,055	98%
8/1/2016	2,493,511	4.2%	104,727	86%
9/1/2016	2,436,910	4.2%	102,350	84%
10/1/2016	2,473,085	4.4%	108,816	87%
11/1/2016	2,339,786	4.7%	109,970	100%
12/1/2016	2,371,516	4.8%	113,833	98%

SR 2 Southbound

Month	Volume (Veh/Month)	Truck Proportion (%)	Truck Volume (trucks/month)	Portion Observed (%)
1/1/2015	2,385,739	4.4%	104,973	100%
2/1/2015	2,265,915	4.8%	108,764	94%
3/1/2015	2,540,848	5.0%	127,042	95%
4/1/2015	2,490,813	4.9%	122,050	99%
5/1/2015	2,516,975	4.3%	108,230	99%
6/1/2015	2,518,487	4.7%	118,369	88%
7/1/2015	2,569,167	4.5%	115,613	100%
8/1/2015	2,528,743	4.7%	118,851	70%
9/1/2015	2,426,627	5.0%	121,331	48%
10/1/2014	2,503,355	4.8%	120,161	85%
11/1/2014	2,316,440	4.8%	111,189	100%
12/1/2014	2,373,602	4.7%	111,559	100%

Baseline Annual Traffic Volumes

Year of Baseline Data: 2015

	SR 2 Northbound			SR 2 Southbound		
	All Vehicles	Truck Only	Passenger Vehicles Only	All Vehicles	Truck Only	Passenger Vehicles Only
Volumes (veh/year)	28,673,081	1,235,111	27,437,970	29,436,711	1,388,132	28,048,579
Source	summation	summation	calculation	summation	summation	calculation

Average Annual Growth Rate

value	units	source
0.92%	%	select highway segment from wksht: Highway Growth Rates

Projected Future Annual Traffic Volumes

Year	SR 2 Northbound		SR 2 Southbound	
	Trucks	Pass Veh	Trucks	Pass Veh
2019	1,281,188	28,461,568	1,439,917	29,094,957

Sources/Notes

1 Values in the blue-shaded cells should be input by the user.

2 Data in the grey-shaded cells, including volume data and truck percentages, are from the Caltrans Performance Measurement System (PeMs) system.

3 California Department of Transportation. 2017. PeMs. Downloaded from http://pems.dot.ca.gov/ on July 13, 2017.

Freeway Volume Growth Rate (based on historical data)

	AADT		
Year	**I-5**	**SR-134**	**SR-2**
2005	282,000	245,000	146,000
2006	285,000	246,000	148,000
2007	285,000	249,000	151,000
2008	279,000	237,000	147,000
2009	278,000	226,000	146,000
2010	281,000	226,000	147,000
2011	292,000	222,000	153,000
2012	293,000	223,000	151,000
2013	294,000	232,000	151,000
2014	283,000	227,000	156,000
2015	282,000	234,000	160,000

Sources/Notes

1 California Department of Transportation. 2017. Traffic Census Program. Available at http://www.dot.ca.gov/trafficops/census/. Accessed April 14, 2017.

2 To calculate compound annual growth rate, divide the value of an investment at the end of the period in question by its value at the beginning of that period, raise the result to the power of one divided by the period length, and subtract one from the subsequent result.

	First Year	Last Year	Number of Years' Historical Data
SR-2 Period	2005	2015	10
I-5 Period	2005	2013	8
SR-134 Period	2009	2015	6

Annual Average Growth Rates		
I-5	**SR-134**	**SR-2**
0.52%	0.58%	0.92%

Diesel PM Emission Rates for Worst-Case 2019

Beginning Calendar Year 2019

VehClass	Truck?	Speed	Fuel	VMT per Day in Los Angeles County (VMT/day) 2019	2019 Total VMT/day (Truck Classes Only)	Worst-Case 2019 Scenario: Breakdown of Truck Types Among Trucks (gas and diesel) based on VMT	2019 Total VMT/day (Passenger Vehicles Only)	Breakdown of Pass Veh Types Among Pass Veh (gas and diesel) based on VMT	PM10 Running Exhaust Emissions (grams/mile) 2019	2019 (Truck Classes Only) (Diesel Only)	Worst-Case 2019 Scenario: Weighted Diesel PM Emission Rate, Trucks Only (g/mi)	2019 (Pass Veh Only) (Diesel Only)	Weighted Diesel PM Emission Rate, Pass Veh Only (g/mi)
HHDT	Y	55	GAS	17,445	17,445	0.4%	NA	NA	0.000903	NA	0.049478	NA	0.000500
HHDT	Y	55	DSL	1,821,181	1,821,181	46.7%	NA	NA	0.024171	0.02417136		NA	
HHDT	Y	60	GAS	858	858	0.0%	NA	NA	0.000724	NA		NA	
HHDT	Y	60	DSL	102,077	102,077	2.6%	NA	NA	0.021907	0.02190735		NA	
HHDT	Y	65	GAS	460	460	0.0%	NA	NA	0.000822	NA		NA	
HHDT	Y	65	DSL	55,910	55,910	1.4%	NA	NA	0.021907	0.02190735		NA	
HHDT	Y	70	DSL	0	0	NA	NA	NA	0.000000	NA		NA	
LDA	N	55	GAS	45,872,559	NA	NA	45,872,559	41.9%	0.001824	NA		NA	
LDA	N	55	DSL	515,767	NA	NA	515,767	0.5%	0.014959	NA		0.01495899	
LDA	N	60	GAS	1,400,833	NA	NA	1,400,833	1.3%	0.001365	NA		NA	
LDA	N	60	DSL	15,750	NA	NA	15,750	0.0%	0.012704	NA		0.01270395	
LDA	N	65	GAS	18,461,125	NA	NA	18,461,125	16.9%	0.001544	NA		NA	
LDA	N	65	DSL	207,567	NA	NA	207,567	0.2%	0.014191	NA		0.01419137	
LDA	N	70	GAS	0	NA	NA	0	NA	0.000000	NA		NA	
LDA	N	70	DSL	0	NA	NA	0	NA	0.000000	NA		NA	
LDT1	N	55	GAS	3,589,856	NA	NA	3,589,856	3.3%	0.002984	NA		NA	
LDT1	N	55	DSL	3,842	NA	NA	3,842	0.0%	0.148236	NA		0.14823596	
LDT1	N	60	GAS	109,625	NA	NA	109,625	0.1%	0.002240	NA		NA	
LDT1	N	60	DSL	117	NA	NA	117	0.0%	0.128449	NA		0.12844926	
LDT1	N	65	GAS	1,444,715	NA	NA	1,444,715	1.3%	0.002500	NA		NA	
LDT1	N	65	DSL	1,546	NA	NA	1,546	0.0%	0.147194	NA		0.14719371	
LDT1	N	70	GAS	0	NA	NA	0	NA	0.000000	NA		NA	
LDT1	N	70	DSL	0	NA	NA	0	NA	0.000000	NA		NA	
LDT2	N	55	GAS	15,178,788	NA	NA	15,178,788	13.9%	0.001767	NA		NA	
LDT2	N	55	DSL	28,188	NA	NA	28,188	0.0%	0.007255	NA		0.00725484	
LDT2	N	60	GAS	463,522	NA	NA	463,522	0.4%	0.001322	NA		NA	
LDT2	N	60	DSL	861	NA	NA	861	0.0%	0.006006	NA		0.00600554	
LDT2	N	65	GAS	6,108,609	NA	NA	6,108,609	5.6%	0.001493	NA		NA	
LDT2	N	65	DSL	11,344	NA	NA	11,344	0.0%	0.006483	NA		0.00648336	
LDT2	N	70	GAS	0	NA	NA	0	NA	0.000000	NA		NA	
LDT2	N	70	DSL	0	NA	NA	0	NA	0.000000	NA		NA	
LHDT1	N	55	GAS	696,047	NA	NA	696,047	0.6%	0.002767	NA		NA	
LHDT1	N	55	DSL	789,976	NA	NA	789,976	0.7%	0.036738	NA		0.03673792	
LHDT2	N	55	GAS	150,285	NA	NA	150,285	0.1%	0.001948	NA		NA	
LHDT2	N	55	DSL	305,880	NA	NA	305,880	0.3%	0.025749	NA		0.02574861	
MCY	N	55	GAS	511,431	NA	NA	511,431	0.5%	0.001937	NA		NA	
MCY	N	60	GAS	15,618	NA	NA	15,618	0.0%	0.001570	NA		NA	
MCY	N	65	GAS	205,822	NA	NA	205,822	0.2%	0.001791	NA		NA	
MCY	N	70	GAS	0	NA	NA	0	NA	0.000000	NA		NA	
MDV	N	55	GAS	9,088,629	NA	NA	9,088,629	8.3%	0.001875	NA		NA	
MDV	N	55	DSL	157,639	NA	NA	157,639	0.1%	0.006795	NA		0.00679541	
MDV	N	60	GAS	277,544	NA	NA	277,544	0.3%	0.001414	NA		NA	
MDV	N	60	DSL	4,814	NA	NA	4,814	0.0%	0.005608	NA		0.00560814	
MDV	N	65	GAS	3,657,662	NA	NA	3,657,662	3.3%	0.001597	NA		NA	
MDV	N	65	DSL	63,441	NA	NA	63,441	0.1%	0.006029	NA		0.00602898	
MDV	N	70	GAS	0	NA	NA	0	NA	0.000000	NA		NA	
MDV	N	70	DSL	0	NA	NA	0	NA	0.000000	NA		NA	
MH	N	55	GAS	88,051	NA	NA	88,051	0.1%	0.002879	NA		NA	
MH	N	55	DSL	22,477	NA	NA	22,477	0.0%	0.159804	NA		0.15980429	
MH	N	60	GAS	13,094	NA	NA	13,094	0.0%	0.002054	NA		NA	
MH	N	60	DSL	3,810	NA	NA	3,810	0.0%	0.172325	NA		0.17232476	
MH	N	65	GAS	2,046	NA	NA	2,046	0.0%	0.002342	NA		NA	
MH	N	65	DSL	600	NA	NA	600	0.0%	0.201511	NA		0.20151123	
MHDT	Y	55	GAS	141,108	141,108	3.6%	NA	NA	0.001467	NA		NA	
MHDT	Y	55	DSL	1,096,762	1,096,762	28.1%	NA	NA	0.086337	0.08633744		NA	
MHDT	Y	60	GAS	20,984	20,984	0.5%	NA	NA	0.000954	NA		NA	
MHDT	Y	60	DSL	185,906	185,906	4.8%	NA	NA	0.095073	0.09507326		NA	
MHDT	Y	65	GAS	3,279	3,279	0.1%	NA	NA	0.001082	NA		NA	
MHDT	Y	65	DSL	29,256	29,256	0.8%	NA	NA	0.095073	0.09507326		NA	
MHDT	Y	70	DSL	0	0	NA	NA	NA	0.000000	NA		NA	
OBUS	Y	55	GAS	84,344	84,344	2.2%	NA	NA	0.001068	NA		NA	
OBUS	Y	55	DSL	69,470	69,470	1.8%	NA	NA	0.024306	0.02430557		NA	
OBUS	Y	60	GAS	12,543	12,543	0.3%	NA	NA	0.000685	NA		NA	
OBUS	Y	60	DSL	12,966	12,966	0.3%	NA	NA	0.021161	0.02116081		NA	
OBUS	Y	65	GAS	1,960	1,960	0.1%	NA	NA	0.000777	NA		NA	
OBUS	Y	65	DSL	1,730	1,730	0.0%	NA	NA	0.020613	0.02061257		NA	
OBUS	Y	70	DSL	0	0	NA	NA	NA	0.000000	NA		NA	

This is an average, weighted by the different types of diesel trucks. This emission rate is used for the level of VMT by trucks (both gasoline and diesel) of a freeway segment. Thus, this emission rate can be multiplied by the VMT of trucks (both diesel and gasoline) and used to estimate the mass of diesel PM emitted by trucks on that freeway segment.

This is an average, weighted by the different types of diesel passenger vehicles (both gasoline and diesel). This emission rate is used for the level of VMT by passenger vehicles on a freeway segment. Thus, this emission rate can be multiplied by the VMT of passenger vehicles (both diesel and gasoline) and used to estimate the mass of diesel PM emitted on that freeway segment.

Diesel PM Emission Rates for Worst-Case 2019

Beginning Calendar Year 2019

VehClass	Truck?	Speed	Fuel	VMT per Day in Los Angeles County (VMT/day) 2019	2019 Total VMT/day (Truck Classes Only)	Worst-Case 2019 Scenario: Breakdown of Truck Types Among Trucks (gas and diesel) based on VMT	2019 Total VMT/day (Passenger Vehicles Only)	Breakdown of Pass Veh Types Among Pass Veh (gas and diesel) based on VMT	PM10 Running Exhaust Emissions (grams/mile) 2019	2019 (Truck Classes Only) (Diesel Only)	Worst-Case 2019 Scenario: Weighted Diesel PM Emission Rate, Trucks Only (g/mi)	2019 (Pass Veh Only) (Diesel Only)	Weighted Diesel PM Emission Rate, Pass Veh Only (g/mi)
OBUS	Y	75	DSL	0	0	NA	NA	NA	0.000000	NA		NA	
SBUS	Y	55	GAS	15,258	15,258	0.4%	NA	NA	0.001882	NA		NA	
SBUS	Y	55	DSL	45,157	45,157	1.2%	NA	NA	0.042221	0.04222063		NA	
SBUS	Y	60	GAS	375	375	0.0%	NA	NA	0.001050	NA		NA	
SBUS	Y	60	DSL	1,111	1,111	0.0%	NA	NA	0.034434	0.03443424		NA	
SBUS	Y	65	DSL	0	0	NA	NA	NA	0.000000	NA		NA	
SBUS	Y	70	DSL	0	0	NA	NA	NA	0.000000	NA		NA	
UBUS	Y	55	GAS	56,376	56,376	1.4%	NA	NA	0.001667	NA		NA	
UBUS	Y	55	DSL	113,661	113,661	2.9%	NA	NA	0.226345	0.22634503		NA	
UBUS	Y	60	GAS	1,790	1,790	0.0%	NA	NA	0.000656	NA		NA	
UBUS	Y	60	DSL	3,609	3,609	0.1%	NA	NA	0.114634	0.11463361		NA	
UBUS	Y	65	GAS	269	269	0.0%	NA	NA	0.000745	NA		NA	
UBUS	Y	65	DSL	543	543	0.0%	NA	NA	0.132572	0.13257208		NA	
			Total Truck VMT/day	3,896,387	3,896,387	100.0%							
			Passenger Vehicle VMT/day	109,469,480			109,469,480	100.0%					

Sources/Notes

1 In the grey-shaded cells, Daily VMT levels and PM10 Running Exhaust emission rates are from EMFAC2014, Los Angeles County, Aggregated Model Years, Annual Traffic Volumes and Fleet Mix, using EMFAC2007 Vehicle Classification Categories. Model Runs performed by Ascent Environmental on June 22, 2017.

2 California Air Resources Board. 2015. EMFAC2014 computer program, Version 1.0.7. Sacramento, CA. Available: https://www.arb.ca.gov/emfac/2014/. Accessed June 22, 2017.

3 The weighted diesel PM emission rates (in the yellow-shaded columns) account for the fact that fleet-wide diesel PM emission factors (from EMFAC2014) are projected to decrease and VTM is projected to increase.

SGCP

Los Angeles-South Coast County, Summer

Construction Emissions Only (Excluding Demolition Emissions)

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	4.00	1000sqft	0.09	4,000.00	0
Hospital	55.00	1000sqft	1.26	55,000.00	0
Medical Office Building	22.00	1000sqft	0.51	22,000.00	0
Elementary School	102.00	Student	0.20	8,527.54	0
High School	20.00	Student	0.06	2,653.22	0
Place of Worship	1.00	1000sqft	0.02	1,000.00	0
University/College (4Yr)	281.00	Student	1.19	51,647.09	0
Hotel	47.00	Room	1.57	68,244.00	0
Movie Theater (No Matinee)	1.00	1000sqft	0.02	1,000.00	0
Apartments High Rise	673.00	Dwelling Unit	10.85	673,000.00	1925
Automobile Care Center	38.00	1000sqft	0.87	38,000.00	0
Free-Standing Discount Store	15.00	1000sqft	0.34	15,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2019
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	363.53	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Electricity Generation Emissions Factor calculated independently using eGrid emissions factors and CPUC energy mix data for Califronia utilities

Land Use - Annula Growth Rates for each Land USe calcualted independently for inputs ins CalEEMOd

Construction Phase - Construction schedule adjusted to fit in one calendar year for each land use

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	196.00
tblConstructionPhase	NumDays	300.00	196.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblConstructionPhase	PhaseEndDate	1/1/2019	11/26/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/24/2018
tblFleetMix	FleetMixLandUseSubType	Government Office Building	Apartments High Rise
tblFleetMix	FleetMixLandUseSubType	Hospital	Automobile Care Center
tblFleetMix	FleetMixLandUseSubType	Medical Office Building	Elementary School
tblFleetMix	FleetMixLandUseSubType	Elementary School	Free-Standing Discount Store
tblFleetMix	FleetMixLandUseSubType	High School	Government Office Building
tblFleetMix	FleetMixLandUseSubType	Place of Worship	High School
tblFleetMix	FleetMixLandUseSubType	University/College (4Yr)	Hospital
tblFleetMix	FleetMixLandUseSubType	Movie Theater (No Matinee)	Medical Office Building
tblFleetMix	FleetMixLandUseSubType	Apartments High Rise	Movie Theater (No Matinee)
tblFleetMix	FleetMixLandUseSubType	Automobile Care Center	Place of Worship
tblFleetMix	FleetMixLandUseSubType	Free-Standing Discount Store	University/College (4Yr)
tblGrading	AcresOfGrading	50.00	75.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	1115.33	363.53
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblProjectCharacteristics	OperationalYear	2018	2019

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	41.4959	59.6052	61.1269	0.1488	18.2675	2.6357	20.8462	9.9840	2.4249	12.3565	0.0000	14,945.6937	14,945.6937	1.9534	0.0000	14,976.0231
Maximum	**41.4959**	**59.6052**	**61.1269**	**0.1488**	**18.2675**	**2.6357**	**20.8462**	**9.9840**	**2.4249**	**12.3565**	**0.0000**	**14,945.6937**	**14,945.6937**	**1.9534**	**0.0000**	**14,976.0231**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	41.4959	59.6052	61.1269	0.1488	18.2675	2.6357	20.8462	9.9840	2.4249	12.3565	0.0000	14,945.6937	14,945.6937	1.9534	0.0000	14,976.0231
Maximum	**41.4959**	**59.6052**	**61.1269**	**0.1488**	**18.2675**	**2.6357**	**20.8462**	**9.9840**	**2.4249**	**12.3565**	**0.0000**	**14,945.6937**	**14,945.6937**	**1.9534**	**0.0000**	**14,976.0231**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	198.5094	14.6105	398.1141	0.8761		51.7153	51.7153		51.7153	51.7153	6,303.9361	12,214.1040	18,518.0400	18.8980	0.4279	19,117.9952
Energy	0.4891	4.3051	2.6965	0.0267		0.3380	0.3380		0.3380	0.3380		5,336.0297	5,336.0297	0.1023	0.0978	5,367.7391
Mobile	17.5107	78.5070	223.3384	0.6686	49.8497	0.7543	50.6039	13.3431	0.7089	14.0520		67,861.4143	67,861.4143	3.9470		67,960.0893
Total	**216.5093**	**97.4226**	**624.1491**	**1.5713**	**49.8497**	**52.8075**	**102.6572**	**13.3431**	**52.7621**	**66.1052**	**6,303.9361**	**85,411.5479**	**91,715.4840**	**22.9473**	**0.5257**	**92,445.8235**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	198.5094	14.6105	398.1141	0.8761		51.7153	51.7153		51.7153	51.7153	6,303.9361	12,214.1040	18,518.0400	18.8980	0.4279	19,117.9952
Energy	0.4891	4.3051	2.6965	0.0267		0.3380	0.3380		0.3380	0.3380		5,336.0297	5,336.0297	0.1023	0.0978	5,367.7391
Mobile	17.5107	78.5070	223.3384	0.6686	49.8497	0.7543	50.6039	13.3431	0.7089	14.0520		67,861.4143	67,861.4143	3.9470		67,960.0893
Total	**216.5093**	**97.4226**	**624.1491**	**1.5713**	**49.8497**	**52.8075**	**102.6572**	**13.3431**	**52.7621**	**66.1052**	**6,303.9361**	**85,411.5479**	**91,715.4840**	**22.9473**	**0.5257**	**92,445.8235**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/17/2018	5	13	
2	Site Preparation	Site Preparation	1/18/2018	1/26/2018	5	7	
3	Grading	Grading	1/27/2018	2/23/2018	5	20	
4	Building Construction	Building Construction	2/24/2018	11/26/2018	5	196	
5	Paving	Paving	11/27/2018	12/13/2018	5	13	
6	Architectural Coating	Architectural Coating	2/24/2018	11/26/2018	5	196	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 1,362,825; Residential Outdoor: 454,275; Non-Residential Indoor: 400,608; Non-Residential Outdoor: 133,536; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

SGCP - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	583.00	116.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	117.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

Mitigated Construction On-Site

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

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.9990	0.0000	9.9990	3.7396	0.0000	3.7396			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	**5.0901**	**59.5218**	**35.0894**	**0.0620**	**9.9990**	**2.6337**	**12.6327**	**3.7396**	**2.4230**	**6.1627**		**6,244.4284**	**6,244.4284**	**1.9440**		**6,293.0278**

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.9990	0.0000	9.9990	3.7396	0.0000	3.7396			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	**5.0901**	**59.5218**	**35.0894**	**0.0620**	**9.9990**	**2.6337**	**12.6327**	**3.7396**	**2.4230**	**6.1627**	**0.0000**	**6,244.4284**	**6,244.4284**	**1.9440**		**6,293.0278**

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5337	14.2170	3.8871	0.0307	0.7426	0.1002	0.8428	0.2138	0.0958	0.3097		3,267.4812	3,267.4812	0.2152		3,272.8600
Worker	3.2209	2.4307	31.4863	0.0735	6.5166	0.0581	6.5747	1.7282	0.0536	1.7818		7,309.0117	7,309.0117	0.2741		7,315.8652
Total	**3.7546**	**16.6477**	**35.3734**	**0.1041**	**7.2592**	**0.1583**	**7.4175**	**1.9420**	**0.1494**	**2.0914**		**10,576.4929**	**10,576.4929**	**0.4893**		**10,588.7252**

Mitigated Construction On-Site

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

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.5337	14.2170	3.8871	0.0307	0.7426	0.1002	0.8428	0.2138	0.0958	0.3097		3,267.4812	3,267.4812	0.2152		3,272.8600
Worker	3.2209	2.4307	31.4863	0.0735	6.5166	0.0581	6.5747	1.7282	0.0536	1.7818		7,309.0117	7,309.0117	0.2741		7,315.8652
Total	**3.7546**	**16.6477**	**35.3734**	**0.1041**	**7.2592**	**0.1583**	**7.4175**	**1.9420**	**0.1494**	**2.0914**		**10,576.4929**	**10,576.4929**	**0.4893**		**10,588.7252**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**		**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6437**	**17.5209**	**14.7964**	**0.0228**		**0.9561**	**0.9561**		**0.8797**	**0.8797**	**0.0000**	**2,294.0887**	**2,294.0887**	**0.7142**		**2,311.9432**

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.1168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**34.4154**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6464	0.4878	6.3189	0.0148	1.3078	0.0117	1.3194	0.3468	0.0108	0.3576		1,466.8171	1,466.8171	0.0550		1,468.1925
Total	**0.6464**	**0.4878**	**6.3189**	**0.0148**	**1.3078**	**0.0117**	**1.3194**	**0.3468**	**0.0108**	**0.3576**		**1,466.8171**	**1,466.8171**	**0.0550**		**1,468.1925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.1168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**34.4154**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6464	0.4878	6.3189	0.0148	1.3078	0.0117	1.3194	0.3468	0.0108	0.3576		1,466.8171	1,466.8171	0.0550		1,468.1925
Total	**0.6464**	**0.4878**	**6.3189**	**0.0148**	**1.3078**	**0.0117**	**1.3194**	**0.3468**	**0.0108**	**0.3576**		**1,466.8171**	**1,466.8171**	**0.0550**		**1,468.1925**

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	17.5107	78.5070	223.3384	0.6686	49.8497	0.7543	50.6039	13.3431	0.7089	14.0520		67,861.4143	67,861.4143	3.9470		67,960.0893
Unmitigated	17.5107	78.5070	223.3384	0.6686	49.8497	0.7543	50.6039	13.3431	0.7089	14.0520		67,861.4143	67,861.4143	3.9470		67,960.0893

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	2,826.60	3,351.54	2456.45	9,734,485	9,734,485
Automobile Care Center	901.36	901.36	451.44	1,121,320	1,121,320
Elementary School	131.58	0.00	0.00	323,911	323,911
Free-Standing Discount Store	858.60	1,066.05	845.40	1,663,425	1,663,425
Government Office Building	275.72	0.00	0.00	463,754	463,754
High School	34.20	12.20	5.00	114,823	114,823
Hospital	727.10	559.90	490.05	2,594,964	2,594,964
Hotel	383.99	384.93	279.65	881,019	881,019
Medical Office Building	794.86	197.12	34.10	1,558,361	1,558,361
Movie Theater (No Matinee)	78.06	99.28	81.90	172,997	172,997
Place of Worship	9.11	10.37	36.63	28,199	28,199
University/College (4Yr)	480.51	365.30	0.00	1,187,759	1,187,759
Total	7,501.69	6,948.05	4,680.62	19,845,014	19,845,014

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Automobile Care Center	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Elementary School	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Free-Standing Discount Store	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Government Office Building	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
High School	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Hospital	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Hotel	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Medical Office Building	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Movie Theater (No Matinee)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
Place of Worship	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925
University/College (4Yr)	0.548007	0.045751	0.200309	0.124119	0.017133	0.006025	0.018861	0.028423	0.002391	0.002469	0.004915	0.000672	0.000925

5.0 Energy Detail

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	lb/day										lb/day					
NaturalGas Mitigated	0.4891	4.3051	2.6965	0.0267		0.3380	0.3380		0.3380	0.3380		5,336.0297	5,336.0297	0.1023	0.0978	5,367.7391
NaturalGas Unmitigated	0.4891	4.3051	2.6965	0.0267		0.3380	0.3380		0.3380	0.3380		5,336.0297	5,336.0297	0.1023	0.0978	5,367.7391

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	24078.7	0.2597	2.2190	0.9443	0.0142		0.1794	0.1794		0.1794	0.1794		2,832.7910	2,832.7910	0.0543	0.0519	2,849.6248
Automobile Care Center	1890.63	0.0204	0.1854	0.1557	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.4271	222.4271	4.2600e-003	4.0800e-003	223.7489
Elementary School	244.145	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.7229	28.7229	5.5000e-004	5.3000e-004	28.8936
Free-Standing Discount Store	67.8082	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9774	7.9774	1.5000e-004	1.5000e-004	8.0248
Government Office Building	114.63	1.2400e-003	0.0112	9.4400e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4859	13.4859	2.6000e-004	2.5000e-004	13.5660
High School	75.9621	8.2000e-004	7.4500e-003	6.2600e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9367	8.9367	1.7000e-004	1.6000e-004	8.9898
Hospital	9800.55	0.1057	0.9608	0.8071	5.7700e-003		0.0730	0.0730		0.0730	0.0730		1,153.0056	1,153.0056	0.0221	0.0211	1,159.8574
Hotel	4502.23	0.0486	0.4414	0.3708	2.6500e-003		0.0336	0.0336		0.0336	0.0336		529.6746	529.6746	0.0102	9.7100e-003	532.8222
Medical Office Building	630.466	6.8000e-003	0.0618	0.0519	3.7000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003		74.1724	74.1724	1.4200e-003	1.3600e-003	74.6132
Movie Theater (No Matinee)	49.7534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
Place of Worship	49.7534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
University/College (4Yr)	3851.6	0.0415	0.3776	0.3172	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.1293	453.1293	8.6800e-003	8.3100e-003	455.8221
Total		**0.4891**	**4.3051**	**2.6965**	**0.0267**		**0.3380**	**0.3380**		**0.3380**	**0.3380**		**5,336.0297**	**5,336.0297**	**0.1023**	**0.0978**	**5,367.7391**

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	lb/day										lb/day					
Apartments High Rise	24.0787	0.2597	2.2190	0.9443	0.0142		0.1794	0.1794		0.1794	0.1794		2,832.7910	2,832.7910	0.0543	0.0519	2,849.6248
Automobile Care Center	1.89063	0.0204	0.1854	0.1557	1.1100e-003		0.0141	0.0141		0.0141	0.0141		222.4271	222.4271	4.2600e-003	4.0800e-003	223.7489
Elementary School	0.244145	2.6300e-003	0.0239	0.0201	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.7229	28.7229	5.5000e-004	5.3000e-004	28.8936
Free-Standing Discount Store	0.0678082	7.3000e-004	6.6500e-003	5.5800e-003	4.0000e-005		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004		7.9774	7.9774	1.5000e-004	1.5000e-004	8.0248
Government Office Building	0.11463	1.2400e-003	0.0112	9.4400e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4859	13.4859	2.6000e-004	2.5000e-004	13.5660
High School	0.0759621	8.2000e-004	7.4500e-003	6.2600e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004		8.9367	8.9367	1.7000e-004	1.6000e-004	8.9898
Hospital	9.80055	0.1057	0.9608	0.8071	5.7700e-003		0.0730	0.0730		0.0730	0.0730		1,153.0056	1,153.0056	0.0221	0.0211	1,159.8574
Hotel	4.50223	0.0486	0.4414	0.3708	2.6500e-003		0.0336	0.0336		0.0336	0.0336		529.6746	529.6746	0.0102	9.7100e-003	532.8222
Medical Office Building	0.630466	6.8000e-003	0.0618	0.0519	3.7000e-004		4.7000e-003	4.7000e-003		4.7000e-003	4.7000e-003		74.1724	74.1724	1.4200e-003	1.3600e-003	74.6132
Movie Theater (No Matinee)	0.0497534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
Place of Worship	0.0497534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
University/College (4Yr)	3.8516	0.0415	0.3776	0.3172	2.2700e-003		0.0287	0.0287		0.0287	0.0287		453.1293	453.1293	8.6800e-003	8.3100e-003	455.8221
Total		**0.4891**	**4.3051**	**2.6965**	**0.0267**		**0.3380**	**0.3380**		**0.3380**	**0.3380**		**5,336.0297**	**5,336.0297**	**0.1023**	**0.0978**	**5,367.7391**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	198.5094	14.6105	398.1141	0.8761		51.7153	51.7153		51.7153	51.7153	6,303.9361	12,214.1040	18,518.0400	18.8980	0.4279	19,117.9952
Unmitigated	198.5094	14.6105	398.1141	0.8761		51.7153	51.7153		51.7153	51.7153	6,303.9361	12,214.1040	18,518.0400	18.8980	0.4279	19,117.9952

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.6134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	176.3502	13.9636	342.2554	0.8731		51.4093	51.4093		51.4093	51.4093	6,303.9361	12,114.0000	18,417.9361	18.7996	0.4279	19,015.4292
Landscaping	1.7138	0.6469	55.8588	2.9400e-003		0.3060	0.3060		0.3060	0.3060		100.1040	100.1040	0.0985		102.5660
Total	**198.5094**	**14.6105**	**398.1141**	**0.8761**		**51.7153**	**51.7153**		**51.7153**	**51.7153**	**6,303.9361**	**12,214.1040**	**18,518.0400**	**18.8980**	**0.4279**	**19,117.9951**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.8320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	18.6134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	176.3502	13.9636	342.2554	0.8731		51.4093	51.4093		51.4093	51.4093	6,303.9361	12,114.0000	18,417.9361	18.7996	0.4279	19,015.4292
Landscaping	1.7138	0.6469	55.8588	2.9400e-003		0.3060	0.3060		0.3060	0.3060		100.1040	100.1040	0.0985		102.5660
Total	**198.5094**	**14.6105**	**398.1141**	**0.8761**		**51.7153**	**51.7153**		**51.7153**	**51.7153**	**6,303.9361**	**12,214.1040**	**18,518.0400**	**18.8980**	**0.4279**	**19,117.9951**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SGCP

Los Angeles-South Coast County, Summer

Construction Demolition Emissions Only

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Quality Restaurant	10.00	1000sqft	0.23	10,000.00	0
Single Family Housing	3.00	Dwelling Unit	0.97	5,400.00	9
Retirement Community	11.00	Dwelling Unit	2.20	11,000.00	31
General Office Building	18.00	1000sqft	0.41	18,000.00	0
Automobile Care Center	5.00	1000sqft	0.11	5,000.00	0
Movie Theater (No Matinee)	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2018
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	363.53	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Electricity Generation Emissions Factor calculated independently using eGrid emissions factors and CPUC energy mix data for Califronia utilities

Land Use - Annual demolition rates for each Land Use calcualted independently for inputs ins CalEEMOd

Construction Phase - Construction schedule adjusted to fit in one calendar year for each land use

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	1115.33	363.53
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	23.5760	48.2738	23.4484	0.0407	18.2675	2.5787	20.8462	9.9840	2.3724	12.3565	0.0000	4,059.8200	4,059.8200	1.2013	0.0000	4,087.3206
Maximum	**23.5760**	**48.2738**	**23.4484**	**0.0407**	**18.2675**	**2.5787**	**20.8462**	**9.9840**	**2.3724**	**12.3565**	**0.0000**	**4,059.8200**	**4,059.8200**	**1.2013**	**0.0000**	**4,087.3206**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	23.5760	48.2738	23.4484	0.0407	18.2675	2.5787	20.8462	9.9840	2.3724	12.3565	0.0000	4,059.8200	4,059.8200	1.2013	0.0000	4,087.3206
Maximum	**23.5760**	**48.2738**	**23.4484**	**0.0407**	**18.2675**	**2.5787**	**20.8462**	**9.9840**	**2.3724**	**12.3565**	**0.0000**	**4,059.8200**	**4,059.8200**	**1.2013**	**0.0000**	**4,087.3206**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.8171	0.3040	8.2864	0.0182		1.0758	1.0758		1.0758	1.0758	131.1369	254.0872	385.2240	0.3932	8.9000e-003	397.7053
Energy	0.0844	0.7630	0.6149	4.6000e-003		0.0583	0.0583		0.0583	0.0583		920.4409	920.4409	0.0176	0.0169	925.9106
Mobile	2.8016	10.9856	29.5051	0.0769	5.4105	0.0917	5.5022	1.4483	0.0862	1.5346		7,801.9853	7,801.9853	0.5055		7,814.6236
Total	**7.7031**	**12.0526**	**38.4065**	**0.0997**	**5.4105**	**1.2258**	**6.6363**	**1.4483**	**1.2203**	**2.6687**	**131.1369**	**8,976.5134**	**9,107.6502**	**0.9163**	**0.0258**	**9,138.2396**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.8171	0.3040	8.2864	0.0182		1.0758	1.0758		1.0758	1.0758	131.1369	254.0872	385.2240	0.3932	8.9000e-003	397.7053
Energy	0.0844	0.7630	0.6149	4.6000e-003		0.0583	0.0583		0.0583	0.0583		920.4409	920.4409	0.0176	0.0169	925.9106
Mobile	2.8016	10.9856	29.5051	0.0769	5.4105	0.0917	5.5022	1.4483	0.0862	1.5346		7,801.9853	7,801.9853	0.5055		7,814.6236
Total	**7.7031**	**12.0526**	**38.4065**	**0.0997**	**5.4105**	**1.2258**	**6.6363**	**1.4483**	**1.2203**	**2.6687**	**131.1369**	**8,976.5134**	**9,107.6502**	**0.9163**	**0.0258**	**9,138.2396**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	2/2/2018	5	5	
3	Grading	Grading	2/3/2018	2/14/2018	5	8	
4	Building Construction	Building Construction	2/15/2018	4/10/2018	5	230	
5	Paving	Paving	4/11/2018	7/16/2018	5	18	
6	Architectural Coating	Architectural Coating	7/17/2018	8/27/2018	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 33,210; Residential Outdoor: 11,070; Non-Residential Indoor: 51,000; Non-Residential Outdoor: 17,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

SGCP - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**		**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	**3.7190**	**38.3225**	**22.3040**	**0.0388**		**1.9386**	**1.9386**		**1.8048**	**1.8048**	**0.0000**	**3,871.7665**	**3,871.7665**	**1.0667**		**3,898.4344**

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

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

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

Mitigated Construction On-Site

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

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

3.4 Grading - 2018

Unmitigated Construction On-Site

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

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

Mitigated Construction On-Site

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

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0829	0.0625	0.8101	1.8900e-003	0.1677	1.4900e-003	0.1692	0.0445	1.3800e-003	0.0458		188.0535	188.0535	7.0500e-003		188.2298
Total	**0.0829**	**0.0625**	**0.8101**	**1.8900e-003**	**0.1677**	**1.4900e-003**	**0.1692**	**0.0445**	**1.3800e-003**	**0.0458**		**188.0535**	**188.0535**	**7.0500e-003**		**188.2298**

3.5 Building Construction - 2018

Unmitigated Construction On-Site

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

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0322	0.8579	0.2346	1.8500e-003	0.0448	6.0500e-003	0.0509	0.0129	5.7800e-003	0.0187		197.1756	197.1756	0.0130		197.5002
Worker	0.1160	0.0876	1.1342	2.6500e-003	0.2347	2.0900e-003	0.2368	0.0623	1.9300e-003	0.0642		263.2749	263.2749	9.8700e-003		263.5217
Total	**0.1482**	**0.9455**	**1.3687**	**4.5000e-003**	**0.2795**	**8.1400e-003**	**0.2877**	**0.0752**	**7.7100e-003**	**0.0829**		**460.4505**	**460.4505**	**0.0229**		**461.0219**

Mitigated Construction On-Site

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

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0322	0.8579	0.2346	1.8500e-003	0.0448	6.0500e-003	0.0509	0.0129	5.7800e-003	0.0187		197.1756	197.1756	0.0130		197.5002
Worker	0.1160	0.0876	1.1342	2.6500e-003	0.2347	2.0900e-003	0.2368	0.0623	1.9300e-003	0.0642		263.2749	263.2749	9.8700e-003		263.5217
Total	**0.1482**	**0.9455**	**1.3687**	**4.5000e-003**	**0.2795**	**8.1400e-003**	**0.2877**	**0.0752**	**7.7100e-003**	**0.0829**		**460.4505**	**460.4505**	**0.0229**		**461.0219**

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718		1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4239**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**		**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4239	14.5184	12.4333	0.0189		0.8370	0.8370		0.7718	0.7718	0.0000	1,872.5505	1,872.5505	0.5672		1,886.7312
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4239**	**14.5184**	**12.4333**	**0.0189**		**0.8370**	**0.8370**		**0.7718**	**0.7718**	**0.0000**	**1,872.5505**	**1,872.5505**	**0.5672**		**1,886.7312**

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0834	1.0802	2.5200e-003	0.2236	1.9900e-003	0.2256	0.0593	1.8400e-003	0.0611		250.7380	250.7380	9.4000e-003		250.9731
Total	**0.1105**	**0.0834**	**1.0802**	**2.5200e-003**	**0.2236**	**1.9900e-003**	**0.2256**	**0.0593**	**1.8400e-003**	**0.0611**		**250.7380**	**250.7380**	**9.4000e-003**		**250.9731**

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.2111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	**23.5097**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**		**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0663	0.0500	0.6481	1.5100e-003	0.3674	1.2000e-003	0.3686	0.0928	1.1000e-003	0.0939		150.4428	150.4428	5.6400e-003		150.5839
Total	**0.0663**	**0.0500**	**0.6481**	**1.5100e-003**	**0.3674**	**1.2000e-003**	**0.3686**	**0.0928**	**1.1000e-003**	**0.0939**		**150.4428**	**150.4428**	**5.6400e-003**		**150.5839**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.2111					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	**23.5097**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**	**0.0000**	**281.4485**	**281.4485**	**0.0267**		**282.1171**

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0663	0.0500	0.6481	1.5100e-003	0.3674	1.2000e-003	0.3686	0.0928	1.1000e-003	0.0939		150.4428	150.4428	5.6400e-003		150.5839
Total	**0.0663**	**0.0500**	**0.6481**	**1.5100e-003**	**0.3674**	**1.2000e-003**	**0.3686**	**0.0928**	**1.1000e-003**	**0.0939**		**150.4428**	**150.4428**	**5.6400e-003**		**150.5839**

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	2.8016	10.9856	29.5051	0.0769	5.4105	0.0917	5.5022	1.4483	0.0862	1.5346		7,801.9853	7,801.9853	0.5055		7,814.6236
Unmitigated	2.8016	10.9856	29.5051	0.0769	5.4105	0.0917	5.5022	1.4483	0.0862	1.5346		7,801.9853	7,801.9853	0.5055		7,814.6236

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	198.54	44.28	18.90	485,925	485,925
Automobile Care Center	118.60	118.60	59.40	147,542	147,542
Retirement Community	26.40	22.33	21.45	85,810	85,810
Single Family Housing	28.56	29.73	25.86	96,847	96,847
Quality Restaurant	899.50	943.60	721.60	1,253,345	1,253,345
Movie Theater (No Matinee)	78.06	99.28	81.90	172,997	172,997
Total	1,349.66	1,257.82	929.11	2,242,465	2,242,465

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Retirement Community	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Single Family Housing	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Retirement Community	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Automobile Care Center	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Movie Theater (No Matinee)	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

SGCP - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0844	0.7630	0.6149	4.6000e-003		0.0583	0.0583		0.0583	0.0583		920.4409	920.4409	0.0176	0.0169	925.9106
NaturalGas Unmitigated	0.0844	0.7630	0.6149	4.6000e-003		0.0583	0.0583		0.0583	0.0583		920.4409	920.4409	0.0176	0.0169	925.9106

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	248.767	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		29.2667	29.2667	5.6000e-004	5.4000e-004	29.4406
General Office Building	515.836	5.5600e-003	0.0506	0.0425	3.0000e-004		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003		60.6865	60.6865	1.1600e-003	1.1100e-003	61.0472
Movie Theater (No Matinee)	49.7534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
Quality Restaurant	6327.95	0.0682	0.6204	0.5211	3.7200e-003		0.0472	0.0472		0.0472	0.0472		744.4641	744.4641	0.0143	0.0137	748.8881
Retirement Community	384.845	4.1500e-003	0.0355	0.0151	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003		45.2759	45.2759	8.7000e-004	8.3000e-004	45.5449
Single Family Housing	296.602	3.2000e-003	0.0273	0.0116	1.7000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003		34.8943	34.8943	6.7000e-004	6.4000e-004	35.1017
Total		**0.0844**	**0.7630**	**0.6149**	**4.6000e-003**		**0.0583**	**0.0583**		**0.0583**	**0.0583**		**920.4409**	**920.4409**	**0.0176**	**0.0169**	**925.9106**

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	lb/day										lb/day					
Automobile Care Center	0.248767	2.6800e-003	0.0244	0.0205	1.5000e-004		1.8500e-003	1.8500e-003		1.8500e-003	1.8500e-003		29.2667	29.2667	5.6000e-004	5.4000e-004	29.4406
General Office Building	0.515836	5.5600e-003	0.0506	0.0425	3.0000e-004		3.8400e-003	3.8400e-003		3.8400e-003	3.8400e-003		60.6865	60.6865	1.1600e-003	1.1100e-003	61.0472
Movie Theater (No Matinee)	0.0497534	5.4000e-004	4.8800e-003	4.1000e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8533	5.8533	1.1000e-004	1.1000e-004	5.8881
Quality Restaurant	6.32795	0.0682	0.6204	0.5211	3.7200e-003		0.0472	0.0472		0.0472	0.0472		744.4641	744.4641	0.0143	0.0137	748.8881
Retirement Community	0.384845	4.1500e-003	0.0355	0.0151	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003		45.2759	45.2759	8.7000e-004	8.3000e-004	45.5449
Single Family Housing	0.296602	3.2000e-003	0.0273	0.0116	1.7000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003		34.8943	34.8943	6.7000e-004	6.4000e-004	35.1017
Total		**0.0844**	**0.7630**	**0.6149**	**4.6000e-003**		**0.0583**	**0.0583**		**0.0583**	**0.0583**		**920.4409**	**920.4409**	**0.0176**	**0.0169**	**925.9106**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.8171	0.3040	8.2864	0.0182		1.0758	1.0758		1.0758	1.0758	131.1369	254.0872	385.2240	0.3932	8.9000e-003	397.7053
Unmitigated	4.8171	0.3040	8.2864	0.0182		1.0758	1.0758		1.0758	1.0758	131.1369	254.0872	385.2240	0.3932	8.9000e-003	397.7053

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1145					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.6685	0.2905	7.1197	0.0182		1.0694	1.0694		1.0694	1.0694	131.1369	252.0000	383.1369	0.3911	8.9000e-003	395.5661
Landscaping	0.0362	0.0135	1.1667	6.0000e-005		6.3600e-003	6.3600e-003		6.3600e-003	6.3600e-003		2.0872	2.0872	2.0800e-003		2.1392
Total	**4.8171**	**0.3040**	**8.2864**	**0.0182**		**1.0758**	**1.0758**		**1.0758**	**1.0758**	**131.1369**	**254.0872**	**385.2240**	**0.3932**	**8.9000e-003**	**397.7053**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1145					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.6685	0.2905	7.1197	0.0182		1.0694	1.0694		1.0694	1.0694	131.1369	252.0000	383.1369	0.3911	8.9000e-003	395.5661
Landscaping	0.0362	0.0135	1.1667	6.0000e-005		6.3600e-003	6.3600e-003		6.3600e-003	6.3600e-003		2.0872	2.0872	2.0800e-003		2.1392
Total	**4.8171**	**0.3040**	**8.2864**	**0.0182**		**1.0758**	**1.0758**		**1.0758**	**1.0758**	**131.1369**	**254.0872**	**385.2240**	**0.3932**	**8.9000e-003**	**397.7053**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

SGCP

Los Angeles-South Coast County, Summer

Operational Emissions Only

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	60.00	1000sqft	1.38	60,000.00	0
Hospital	1,886.00	1000sqft	43.30	1,886,000.00	0
Medical Office Building	401.00	1000sqft	9.21	401,000.00	0
Elementary School	1,573.00	Student	3.02	131,508.10	0
High School	286.00	Student	0.87	37,941.04	0
Place of Worship	8.00	1000sqft	0.18	8,000.00	0
University/College (4Yr)	6,200.00	Student	26.16	1,139,544.30	0
Hotel	1,072.00	Room	35.73	1,556,544.00	0
Movie Theater (No Matinee)	15.00	1000sqft	0.34	15,000.00	0
Apartments Mid Rise	10,337.00	Dwelling Unit	272.03	10,337,000.00	29564
Automobile Care Center	808.00	1000sqft	18.55	808,000.00	0
Free-Standing Discount Store	214.00	1000sqft	4.91	214,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2040
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	363.53	**CH4 Intensity (lb/MWhr)**	0.015	**N2O Intensity (lb/MWhr)**	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Electricity Generation Emissions Factor calculated independently using eGrid emissions factors and CPUC energy mix data for Califronia utilities

Land Use - Land Use estiimates taken from Project decription and client information

Construction Phase -

Vehicle Trips - Tipr lengths adjusted to match Proj. TS Annual VMT

Energy Use - 5% reduction in non-residential and 28% reduction in Residential energy use to adjust 2016 Title 24 Standards

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	304.35	219.00
tblEnergyUse	T24E	2.36	2.20
tblEnergyUse	T24E	1.83	1.70
tblEnergyUse	T24E	4.20	4.00
tblEnergyUse	T24E	4.82	4.60
tblEnergyUse	T24E	1.83	1.70
tblEnergyUse	T24E	10.44	9.90
tblEnergyUse	T24E	2.68	2.50
tblEnergyUse	T24E	4.82	4.60
tblEnergyUse	T24E	2.36	2.20
tblEnergyUse	T24E	2.36	2.20
tblEnergyUse	T24E	3.18	3.00
tblEnergyUse	T24NG	6,778.04	4,880.00
tblEnergyUse	T24NG	13.71	13.00
tblEnergyUse	T24NG	9.37	8.90
tblEnergyUse	T24NG	1.16	1.10
tblEnergyUse	T24NG	10.07	9.60
tblEnergyUse	T24NG	9.37	8.90

tblEnergyUse	T24NG	55.22	52.50
tblEnergyUse	T24NG	20.02	19.00
tblEnergyUse	T24NG	10.07	9.60
tblEnergyUse	T24NG	13.71	13.00
tblEnergyUse	T24NG	13.71	13.00
tblEnergyUse	T24NG	26.63	25.30
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	1115.33	363.53
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblProjectCharacteristics	OperationalYear	2018	2040
tblVehicleTrips	CC_TL	8.40	1.00
tblVehicleTrips	CC_TL	8.40	1.00
tblVehicleTrips	CC_TL	8.40	1.00
tblVehicleTrips	CNW_TL	6.90	1.00
tblVehicleTrips	CNW_TL	6.90	6.86
tblVehicleTrips	CW_TL	16.60	1.00
tblVehicleTrips	CW_TL	16.60	1.00
tblVehicleTrips	CW_TL	16.60	1.00
tblVehicleTrips	HO_TL	8.70	1.00
tblVehicleTrips	HS_TL	5.90	1.00
tblVehicleTrips	HW_TL	14.70	1.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6622	48.2738	23.4484	0.0403	18.2675	2.5787	20.8462	9.9840	2.3724	12.3565	0.0000	4,057.2880	4,057.2880	1.2013	0.0000	4,087.3206
2019	4.4249	45.6388	22.9309	0.0402	18.2675	2.3921	20.6596	9.9840	2.2007	12.1848	0.0000	3,984.7844	3,984.7844	1.1992	0.0000	4,014.7635
Maximum	**4.6622**	**48.2738**	**23.4484**	**0.0403**	**18.2675**	**2.5787**	**20.8462**	**9.9840**	**2.3724**	**12.3565**	**0.0000**	**4,057.2880**	**4,057.2880**	**1.2013**	**0.0000**	**4,087.3206**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	4.6622	48.2738	23.4484	0.0403	18.2675	2.5787	20.8462	9.9840	2.3724	12.3565	0.0000	4,057.2880	4,057.2880	1.2013	0.0000	4,087.3206
2019	4.4249	45.6388	22.9309	0.0402	18.2675	2.3921	20.6596	9.9840	2.2007	12.1848	0.0000	3,984.7844	3,984.7844	1.1992	0.0000	4,014.7635
Maximum	**4.6622**	**48.2738**	**23.4484**	**0.0403**	**18.2675**	**2.5787**	**20.8462**	**9.9840**	**2.3724**	**12.3565**	**0.0000**	**4,057.2880**	**4,057.2880**	**1.2013**	**0.0000**	**4,087.3206**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,096.3625	224.2873	6,107.2400	13.4559		794.3599	794.3599		794.3599	794.3599	96,825.8355	187,604.3258	284,430.1613	290.2220	6.5719	293,644.1238
Energy	9.4382	83.9428	58.4387	0.5148		6.5210	6.5210		6.5210	6.5210		102,962.5096	102,962.5096	1.9735	1.8877	103,574.3643
Mobile	98.7003	712.8231	888.2088	4.5918	435.0092	1.9596	436.9688	116.3886	1.8218	118.2104		474,341.8170	474,341.8170	19.7592		474,835.7975
Total	**3,204.5010**	**1,021.0531**	**7,053.8875**	**18.5625**	**435.0092**	**802.8404**	**1,237.8496**	**116.3886**	**802.7026**	**919.0913**	**96,825.8355**	**764,908.6524**	**861,734.4879**	**311.9547**	**8.4595**	**872,054.2855**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,096.3625	224.2873	6,107.2400	13.4559		794.3599	794.3599		794.3599	794.3599	96,825.8355	187,604.3258	284,430.1613	290.2220	6.5719	293,644.1238
Energy	9.4382	83.9428	58.4387	0.5148		6.5210	6.5210		6.5210	6.5210		102,962.5096	102,962.5096	1.9735	1.8877	103,574.3643
Mobile	98.7003	712.8231	888.2088	4.5918	435.0092	1.9596	436.9688	116.3886	1.8218	118.2104		474,341.8170	474,341.8170	19.7592		474,835.7975
Total	**3,204.5010**	**1,021.0531**	**7,053.8875**	**18.5625**	**435.0092**	**802.8404**	**1,237.8496**	**116.3886**	**802.7026**	**919.0913**	**96,825.8355**	**764,908.6524**	**861,734.4879**	**311.9547**	**8.4595**	**872,054.2855**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2018	2/22/2019	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

3.2 Site Preparation - 2018

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0995	0.0751	0.9721	2.2700e-003	0.2012	1.7900e-003	0.2030	0.0534	1.6500e-003	0.0550		225.6642	225.6642	8.4600e-003		225.8758
Total	**0.0995**	**0.0751**	**0.9721**	**2.2700e-003**	**0.2012**	**1.7900e-003**	**0.2030**	**0.0534**	**1.6500e-003**	**0.0550**		**225.6642**	**225.6642**	**8.4600e-003**		**225.8758**

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**		**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**4.3350**	**45.5727**	**22.0630**	**0.0380**	**18.0663**	**2.3904**	**20.4566**	**9.9307**	**2.1991**	**12.1298**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

4.0 Operational Detail - Mobile

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	lb/day										lb/day					
Mitigated	98.7003	712.8231	888.2088	4.5918	435.0092	1.9596	436.9688	116.3886	1.8218	118.2104		474,341.8170	474,341.8170	19.7592		474,835.7975
Unmitigated	98.7003	712.8231	888.2088	4.5918	435.0092	1.9596	436.9688	116.3886	1.8218	118.2104		474,341.8170	474,341.8170	19.7592		474,835.7975

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	68,741.05	66,053.43	60574.82	21,779,263	21,779,263
Automobile Care Center	19,165.76	19,165.76	9599.04	4,819,224	4,819,224
Elementary School	2,029.17	0.00	0.00	4,995,213	4,995,213
Free-Standing Discount Store	12,249.36	15,208.98	12061.04	23,731,532	23,731,532
Government Office Building	4,135.80	0.00	0.00	6,956,313	6,956,313
High School	489.06	174.46	71.50	1,641,969	1,641,969
Hospital	24,932.92	19,199.48	16804.26	88,983,674	88,983,674
Hotel	8,758.24	8,779.68	6378.40	20,094,724	20,094,724
Medical Office Building	14,488.13	3,592.96	621.55	2,730,457	2,730,457
Movie Theater (No Matinee)	1,170.90	1,489.20	1228.50	2,594,949	2,594,949
Place of Worship	72.88	82.96	293.04	225,588	225,588
University/College (4Yr)	10,602.00	8,060.00	0.00	3,828,941	3,828,941
Total	166,835.27	141,806.91	107,632.15	182,381,847	182,381,847

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	1.00	1.00	1.00	40.20	19.20	40.60	86	11	3
Automobile Care Center	1.00	1.00	6.90	33.00	48.00	19.00	21	51	28
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6
Hospital	16.60	8.40	6.90	64.90	16.10	19.00	73	25	2
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	1.00	1.00	1.00	29.60	51.40	19.00	60	30	10
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	66	17	17
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11
University/College (4Yr)	1.00	1.00	6.86	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Hospital	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Medical Office Building	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Elementary School	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
High School	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Place of Worship	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
University/College (4Yr)	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Hotel	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Movie Theater (No Matinee)	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Apartments Mid Rise	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Automobile Care Center	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810
Free-Standing Discount Store	0.537194	0.043713	0.210127	0.116181	0.013260	0.006460	0.022765	0.039037	0.002776	0.001599	0.005341	0.000737	0.000810

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

SGCP - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.4382	83.9428	58.4387	0.5148		6.5210	6.5210		6.5210	6.5210		102,962.5096	102,962.5096	1.9735	1.8877	103,574.3643
NaturalGas Unmitigated	9.4382	83.9428	58.4387	0.5148		6.5210	6.5210		6.5210	6.5210		102,962.5096	102,962.5096	1.9735	1.8877	103,574.3643

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	316086	3.4088	29.1295	12.3955	0.1859		2.3552	2.3552		2.3552	2.3552		37,186.5454	37,186.5454	0.7127	0.6818	37,407.5264
Automobile Care Center	38629	0.4166	3.7872	3.1812	0.0227		0.2878	0.2878		0.2878	0.2878		4,544.5931	4,544.5931	0.0871	0.0833	4,571.5993
Elementary School	3595.76	0.0388	0.3525	0.2961	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.0301	423.0301	8.1100e-003	7.7600e-003	425.5439
Free-Standing Discount Store	932.219	0.0101	0.0914	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003		109.6728	109.6728	2.1000e-003	2.0100e-003	110.3246
Government Office Building	1642.19	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1990	193.1990	3.7000e-003	3.5400e-003	194.3471
High School	1037.4	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0473	122.0473	2.3400e-003	2.2400e-003	122.7725
Hospital	322015	3.4727	31.5701	26.5189	0.1894		2.3993	2.3993		2.3993	2.3993		37,884.1322	37,884.1322	0.7261	0.6945	38,109.2586
Hotel	98339.5	1.0605	9.6411	8.0985	0.0579		0.7327	0.7327		0.7327	0.7327		11,569.3488	11,569.3488	0.2218	0.2121	11,638.0997
Medical Office Building	10975.3	0.1184	1.0760	0.9039	6.4600e-003		0.0818	0.0818		0.0818	0.0818		1,291.2135	1,291.2135	0.0248	0.0237	1,298.8866
Movie Theater (No Matinee)	717.123	7.7300e-003	0.0703	0.0591	4.2000e-004		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003		84.3675	84.3675	1.6200e-003	1.5500e-003	84.8688
Place of Worship	382.466	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9960	44.9960	8.6000e-004	8.2000e-004	45.2634
University/College (4Yr)	80829.6	0.8717	7.9245	6.6566	0.0476		0.6023	0.6023		0.6023	0.6023		9,509.3640	9,509.3640	0.1823	0.1743	9,565.8734
Total		**9.4382**	**83.9428**	**58.4387**	**0.5148**		**6.5210**	**6.5210**		**6.5210**	**6.5210**		**102,962.5096**	**102,962.5096**	**1.9734**	**1.8876**	**103,574.3643**

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	lb/day										lb/day					
Apartments Mid Rise	316.086	3.4088	29.1295	12.3955	0.1859		2.3552	2.3552		2.3552	2.3552		37,186.5454	37,186.5454	0.7127	0.6818	37,407.5264
Automobile Care Center	38.629	0.4166	3.7872	3.1812	0.0227		0.2878	0.2878		0.2878	0.2878		4,544.5931	4,544.5931	0.0871	0.0833	4,571.5993
Elementary School	3.59576	0.0388	0.3525	0.2961	2.1200e-003		0.0268	0.0268		0.0268	0.0268		423.0301	423.0301	8.1100e-003	7.7600e-003	425.5439
Free-Standing Discount Store	0.932219	0.0101	0.0914	0.0768	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003		109.6728	109.6728	2.1000e-003	2.0100e-003	110.3246
Government Office Building	1.64219	0.0177	0.1610	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122		193.1990	193.1990	3.7000e-003	3.5400e-003	194.3471
High School	1.0374	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0473	122.0473	2.3400e-003	2.2400e-003	122.7725
Hospital	322.015	3.4727	31.5701	26.5189	0.1894		2.3993	2.3993		2.3993	2.3993		37,884.1322	37,884.1322	0.7261	0.6945	38,109.2586
Hotel	98.3395	1.0605	9.6411	8.0985	0.0579		0.7327	0.7327		0.7327	0.7327		11,569.3488	11,569.3488	0.2218	0.2121	11,638.0997
Medical Office Building	10.9753	0.1184	1.0760	0.9039	6.4600e-003		0.0818	0.0818		0.0818	0.0818		1,291.2135	1,291.2135	0.0248	0.0237	1,298.8866
Movie Theater (No Matinee)	0.717123	7.7300e-003	0.0703	0.0591	4.2000e-004		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003		84.3675	84.3675	1.6200e-003	1.5500e-003	84.8688
Place of Worship	0.382466	4.1200e-003	0.0375	0.0315	2.2000e-004		2.8500e-003	2.8500e-003		2.8500e-003	2.8500e-003		44.9960	44.9960	8.6000e-004	8.2000e-004	45.2634
University/College (4Yr)	80.8296	0.8717	7.9245	6.6566	0.0476		0.6023	0.6023		0.6023	0.6023		9,509.3640	9,509.3640	0.1823	0.1743	9,565.8734
Total		**9.4382**	**83.9428**	**58.4387**	**0.5148**		**6.5210**	**6.5210**		**6.5210**	**6.5210**		**102,962.5096**	**102,962.5096**	**1.9734**	**1.8876**	**103,574.3643**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3,096.3625	224.2873	6,107.2400	13.4559		794.3599	794.3599		794.3599	794.3599	96,825.8355	187,604.3258	284,430.1613	290.2220	6.5719	293,644.1238
Unmitigated	3,096.3625	224.2873	6,107.2400	13.4559		794.3599	794.3599		794.3599	794.3599	96,825.8355	187,604.3258	284,430.1613	290.2220	6.5719	293,644.1238

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	33.6133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	328.5718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,708.6661	214.4754	5,256.9004	13.4108		789.6261	789.6261		789.6261	789.6261	96,825.8355	186,066.0000	282,891.8355	288.7533	6.5719	292,069.0808
Landscaping	25.5112	9.8119	850.3397	0.0451		4.7338	4.7338		4.7338	4.7338		1,538.3258	1,538.3258	1.4687		1,575.0430
Total	**3,096.3625**	**224.2873**	**6,107.2400**	**13.4559**		**794.3599**	**794.3599**		**794.3599**	**794.3599**	**96,825.8355**	**187,604.3258**	**284,430.1613**	**290.2220**	**6.5719**	**293,644.1238**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	33.6133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	328.5718					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,708.6661	214.4754	5,256.9004	13.4108		789.6261	789.6261		789.6261	789.6261	96,825.8355	186,066.0000	282,891.8355	288.7533	6.5719	292,069.0808
Landscaping	25.5112	9.8119	850.3397	0.0451		4.7338	4.7338		4.7338	4.7338		1,538.3258	1,538.3258	1.4687		1,575.0430
Total	**3,096.3625**	**224.2873**	**6,107.2400**	**13.4559**		**794.3599**	**794.3599**		**794.3599**	**794.3599**	**96,825.8355**	**187,604.3258**	**284,430.1613**	**290.2220**	**6.5719**	**293,644.1238**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

```
 *** AERMOD - VERSION  15181 ***   *** Glendale HRA
                         ***        07/11/17
 *** AERMET - VERSION  14134 ***   ***
                       ***        20:32:46

                                  PAGE   1
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                                          ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  1004 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   9862049.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  HRA

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:   1004 Source(s);       5 Source Group(s); and    1420
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
```

```
                                1. GlendaleHRA062117
                 and:   1004 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  14134

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   175.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.3 MB of RAM.

 **Detailed Error/Message File:   GlendaleHRA062117.err

 **File for Summary of Results:   GlendaleHRA062117.sum

 *** AERMOD - VERSION  15181 ***   *** Glendale HRA
                          ***        07/11/17
 *** AERMET - VERSION  14134 ***   ***
                        ***        20:32:46

                                   PAGE   2
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                                            *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                 (1=YES; 0=NO)
```

1. GlendaleHRA062117

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: RegDFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: C:\Users\samantha.wang\Documents\Projects\17010082.01 Atkins-South Glendale Comm Met Version: 14134
Profile file: C:\Users\samantha.wang\Documents\Projects\17010082.01 Atkins-South Glendale Comm
Surface format: FREE

Profile format: FREE

Surface station no.: 0 Upper air station no.: 3190

1. GlendaleHRA062117

Name: UNKNOWN Name: UNKNOWN

Year: 2008 Year: 2008

First 24 hours of scalar data

```
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN
ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  280.9    5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  280.9    5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  279.2    5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  279.2    5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  278.8    5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  278.8    5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  278.8    5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
0.56  999.00  999.   -9.0  281.4    5.5
 08 01 01   1 09   21.7 -9.000 -9.000 -9.000   53. -999. -99999.0  0.53   1.00
0.33  999.00  999.   -9.0  282.5    5.5
 08 01 01   1 10   70.5 -9.000 -9.000 -9.000  144. -999. -99999.0  0.53   1.00
0.25  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 11  105.7 -9.000 -9.000 -9.000  340. -999. -99999.0  0.53   1.00
0.22  999.00  999.   -9.0  290.9    5.5
 08 01 01   1 12  124.1 -9.000 -9.000 -9.000  559. -999. -99999.0  0.53   1.00
0.21  999.00  999.   -9.0  294.9    5.5
 08 01 01   1 13  124.3 -9.000 -9.000 -9.000  709. -999. -99999.0  0.53   1.00
0.21  999.00  999.   -9.0  297.0    5.5
 08 01 01   1 14  104.3 -9.000 -9.000 -9.000  755. -999. -99999.0  0.53   1.00
0.22  999.00  999.   -9.0  294.2    5.5
 08 01 01   1 15   68.8 -9.000 -9.000 -9.000  786. -999. -99999.0  0.53   1.00
0.26  999.00  999.   -9.0  293.8    5.5
 08 01 01   1 16   19.1 -9.000 -9.000 -9.000  792. -999. -99999.0  0.53   1.00
0.34  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
0.61  999.00  999.   -9.0  290.9    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  287.0    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
```

```
1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  284.9    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  284.9    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  284.9    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.53   1.00
1.00  999.00  999.   -9.0  284.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   281.0   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  15181 ***   *** Glendale HRA
                          ***        07/11/17
 *** AERMET - VERSION  14134 ***   ***
                       ***        20:32:46

                                  PAGE   4
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                   ** CONC OF HRA      IN MICROGRAMS/M**3
                **


                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

SR134_E   1ST HIGHEST VALUE IS       9.02725 AT (  386200.00,  3779600.00,
192.79,   757.51,    0.00)  DC
          2ND HIGHEST VALUE IS       8.62468 AT (  385500.00,  3780100.00,
193.07,   757.51,    0.00)  DC
          3RD HIGHEST VALUE IS       8.54993 AT (  386800.00,  3779200.00,
200.99,   757.51,    0.00)  DC
          4TH HIGHEST VALUE IS       7.79007 AT (  386200.00,  3779500.00,
191.39,   757.51,    0.00)  DC
          5TH HIGHEST VALUE IS       7.78757 AT (  385200.00,  3780200.00,
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190.74,   757.51,    0.00)  DC
          6TH HIGHEST VALUE IS       7.72627 AT (  382900.00,  3780100.00,
150.68,   757.51,    0.00)  DC
          7TH HIGHEST VALUE IS       7.70533 AT (  383300.00,  3780200.00,
157.45,   757.51,    0.00)  DC
          8TH HIGHEST VALUE IS       7.70269 AT (  386100.00,  3779700.00,
194.80,   757.51,    0.00)  DC
          9TH HIGHEST VALUE IS       7.57594 AT (  385400.00,  3780100.00,
192.07,   757.51,    0.00)  DC
         10TH HIGHEST VALUE IS       7.27572 AT (  386004.58,  3779792.02,
193.33,   757.51,    0.00)  DC

SR134_W   1ST HIGHEST VALUE IS       8.74989 AT (  385837.02,  3779959.62,
193.76,   757.51,    0.00)  DC
          2ND HIGHEST VALUE IS       8.65619 AT (  385775.74,  3780013.65,
193.67,   757.51,    0.00)  DC
          3RD HIGHEST VALUE IS       8.58853 AT (  385898.29,  3779905.58,
193.86,   757.51,    0.00)  DC
          4TH HIGHEST VALUE IS       8.47437 AT (  385400.00,  3780200.00,
193.46,   757.51,    0.00)  DC
          5TH HIGHEST VALUE IS       8.17349 AT (  386162.49,  3779662.38,
194.28,   757.51,    0.00)  DC
          6TH HIGHEST VALUE IS       8.02030 AT (  386200.00,  3779600.00,
192.79,   757.51,    0.00)  DC
          7TH HIGHEST VALUE IS       8.00372 AT (  385900.00,  3779800.00,
191.49,   757.51,    0.00)  DC
          8TH HIGHEST VALUE IS       7.72149 AT (  385525.48,  3780164.64,
194.53,   757.51,    0.00)  DC
          9TH HIGHEST VALUE IS       7.68642 AT (  386500.00,  3779400.00,
194.69,   757.51,    0.00)  DC
         10TH HIGHEST VALUE IS       7.58197 AT (  386500.00,  3779300.00,
192.95,   757.51,    0.00)  DC

SR2_N     1ST HIGHEST VALUE IS       5.33355 AT (  386621.71,  3777870.34,
216.41,   272.33,    0.00)  DC
          2ND HIGHEST VALUE IS       5.14305 AT (  386705.41,  3778250.61,
178.22,   359.23,    0.00)  DC
          3RD HIGHEST VALUE IS       4.46522 AT (  386681.40,  3778147.39,
205.10,   272.33,    0.00)  DC
          4TH HIGHEST VALUE IS       4.34735 AT (  386706.95,  3778318.46,
169.48,   757.51,    0.00)  DC
          5TH HIGHEST VALUE IS       4.19476 AT (  386682.55,  3778200.31,
183.97,   359.23,    0.00)  DC
          6TH HIGHEST VALUE IS       4.17842 AT (  386700.00,  3778300.00,
170.47,   359.23,    0.00)  DC
          7TH HIGHEST VALUE IS       3.86001 AT (  386683.69,  3778253.24,
175.57,   359.23,    0.00)  DC
          8TH HIGHEST VALUE IS       3.83989 AT (  386708.49,  3778386.32,
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169.59,   757.51,    0.00)  DC
          9TH HIGHEST VALUE IS       3.66512 AT (  386712.36,  3777867.98,
230.20,   272.33,    0.00)  DC
         10TH HIGHEST VALUE IS       3.56989 AT (  386600.00,  3777900.00,
222.17,   272.33,    0.00)  DC

SR2_S     1ST HIGHEST VALUE IS       6.51874 AT (  386700.00,  3778300.00,
170.47,   359.23,    0.00)  DC
          2ND HIGHEST VALUE IS       5.81087 AT (  386683.69,  3778253.24,
175.57,   359.23,    0.00)  DC
          3RD HIGHEST VALUE IS       5.43669 AT (  386708.49,  3778386.32,
169.59,   757.51,    0.00)  DC
          4TH HIGHEST VALUE IS       5.16401 AT (  386600.00,  3777900.00,
222.17,   272.33,    0.00)  DC
          5TH HIGHEST VALUE IS       4.99757 AT (  386706.95,  3778318.46,
169.48,   757.51,    0.00)  DC
          6TH HIGHEST VALUE IS       4.60200 AT (  386700.00,  3778400.00,
169.49,   757.51,    0.00)  DC
          7TH HIGHEST VALUE IS       4.41168 AT (  386710.03,  3778454.17,
169.60,   757.51,    0.00)  DC
          8TH HIGHEST VALUE IS       3.97114 AT (  386741.11,  3778146.27,
201.69,   359.23,    0.00)  DC
          9TH HIGHEST VALUE IS       3.82818 AT (  386700.00,  3778000.00,
228.04,   272.33,    0.00)  DC
         10TH HIGHEST VALUE IS       3.80945 AT (  386621.71,  3777870.34,
216.41,   272.33,    0.00)  DC
```



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                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                   ** CONC OF HRA      IN MICROGRAMS/M**3
                **


                         NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
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ALL       1ST HIGHEST VALUE IS      18.20230 AT (  386200.00,  3779600.00,
192.79,   757.51,    0.00)  DC
          2ND HIGHEST VALUE IS      17.78157 AT (  386800.00,  3779200.00,
200.99,   757.51,    0.00)  DC
          3RD HIGHEST VALUE IS      17.20537 AT (  386831.86,  3779211.82,
203.01,   757.51,    0.00)  DC
          4TH HIGHEST VALUE IS      16.59414 AT (  385500.00,  3780100.00,
193.07,   757.51,    0.00)  DC
          5TH HIGHEST VALUE IS      16.25493 AT (  386100.00,  3779700.00,
194.80,   757.51,    0.00)  DC
          6TH HIGHEST VALUE IS      15.86120 AT (  385837.02,  3779959.62,
193.76,   757.51,    0.00)  DC
          7TH HIGHEST VALUE IS      15.66248 AT (  386700.00,  3779200.00,
199.27,   757.51,    0.00)  DC
          8TH HIGHEST VALUE IS      15.62098 AT (  385898.29,  3779905.58,
193.86,   757.51,    0.00)  DC
          9TH HIGHEST VALUE IS      15.60172 AT (  386004.58,  3779792.02,
193.33,   757.51,    0.00)  DC
         10TH HIGHEST VALUE IS      15.52514 AT (  386162.49,  3779662.38,
194.28,   757.51,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  15181 ***   *** Glendale HRA
                         ***        07/11/17
 *** AERMET - VERSION  14134 ***   ***
                        ***       20:32:46

                                  PAGE   6
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

                                              *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                  ** CONC OF HRA      IN MICROGRAMS/M**3
               **

                                                        DATE
                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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SR134_E  HIGH   1ST HIGH VALUE IS      21.62852  ON 10092621: AT (  385500.00,
3780100.00,   193.07,   757.51,    0.00)  DC

SR134_W  HIGH   1ST HIGH VALUE IS      22.65117  ON 08101519: AT (  385400.00,
3780200.00,   193.46,   757.51,    0.00)  DC

SR2_N    HIGH   1ST HIGH VALUE IS      19.12570  ON 12020622: AT (  386700.00,
3778100.00,   222.65,   272.33,    0.00)  DC

SR2_S    HIGH   1ST HIGH VALUE IS      20.24601  ON 08061906: AT (  386700.00,
3778100.00,   222.65,   272.33,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      44.39399  ON 12071505: AT (  386831.86,
3779211.82,   203.01,   757.51,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  15181 ***   *** Glendale HRA
                         ***        07/11/17
 *** AERMET - VERSION  14134 ***   ***
                        ***        20:32:46

                                   PAGE   7
 **MODELOPTs:   RegDFAULT CONC      ELEV      URBAN

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            0 Warning Message(s)
 A Total of         1275 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           13 Calm Hours Identified

 A Total of         1262 Missing Hours Identified (  2.88 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
```

1. GlendaleHRA062117

*** NONE ***

HARP2 - HRACalc (dated 16088) 7/14/2017 2:33:20 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2\Glendale HRA\GLENDALE_30YR_071417\hra\Glendale_30yr_071417CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2\Glendale HRA\GLENDALE_30YR_071417\hra\Glendale_30yr_071417CancerRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v16088 7/14/2017 2:33:20 PM - Cancer Risk

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL		384300	3776100	1.18E-05	30YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2	ALL		384400	3776100	1.25E-05	30YrCancer	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3	ALL		384200	3776200	1.13E-05	30YrCancer	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4	ALL		384300	3776200	1.18E-05	30YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5	ALL		384400	3776200	1.24E-05	30YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6	ALL		384500	3776200	1.31E-05	30YrCancer	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7	ALL		384100	3776300	1.06E-05	30YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8	ALL		384200	3776300	1.12E-05	30YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9	ALL		384300	3776300	1.17E-05	30YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10	ALL		384400	3776300	1.23E-05	30YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11	ALL		384500	3776300	1.29E-05	30YrCancer	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12	ALL		384000	3776400	1.01E-05	30YrCancer	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13	ALL		384100	3776400	1.06E-05	30YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14	ALL		384200	3776400	1.11E-05	30YrCancer	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15	ALL		384300	3776400	1.16E-05	30YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16	ALL		384400	3776400	1.21E-05	30YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17	ALL		384500	3776400	1.27E-05	30YrCancer	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18	ALL		384000	3776500	1.00E-05	30YrCancer	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19	ALL		384100	3776500	1.05E-05	30YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20	ALL		384200	3776500	1.10E-05	30YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21	ALL		384300	3776500	1.14E-05	30YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22	ALL		384400	3776500	1.19E-05	30YrCancer	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23	ALL		383900	3776600	9.52E-06	30YrCancer	9.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24	ALL		384000	3776600	9.93E-06	30YrCancer	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25	ALL		384100	3776600	1.04E-05	30YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26	ALL		384200	3776600	1.08E-05	30YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27	ALL		384300	3776600	1.12E-05	30YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28	ALL		384400	3776600	1.17E-05	30YrCancer	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29	ALL		383800	3776700	9.12E-06	30YrCancer	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30	ALL		383900	3776700	9.50E-06	30YrCancer	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31	ALL		384000	3776700	9.87E-06	30YrCancer	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32	ALL		384100	3776700	1.03E-05	30YrCancer	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33	ALL		384200	3776700	1.06E-05	30YrCancer	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34	ALL		384300	3776700	1.10E-05	30YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35	ALL		384400	3776700	1.14E-05	30YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36	ALL		384500	3776700	1.18E-05	30YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37	ALL		384600	3776700	1.24E-05	30YrCancer	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38	ALL		384700	3776700	1.29E-05	30YrCancer	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39	ALL		384800	3776700	1.31E-05	30YrCancer	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40	ALL		383800	3776800	9.22E-06	30YrCancer	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41	ALL		383900	3776800	9.50E-06	30YrCancer	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42	ALL		384000	3776800	9.82E-06	30YrCancer	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43	ALL		384100	3776800	1.02E-05	30YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44	ALL		384200	3776800	1.05E-05	30YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45	ALL		384300	3776800	1.08E-05	30YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46	ALL		384400	3776800	1.12E-05	30YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47	ALL		384500	3776800	1.16E-05	30YrCancer	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48	ALL		384600	3776800	1.21E-05	30YrCancer	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49	ALL		384700	3776800	1.26E-05	30YrCancer	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50	ALL		384800	3776800	1.26E-05	30YrCancer	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51	ALL		384900	3776800	1.14E-05	30YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52	ALL		385000	3776800	1.14E-05	30YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53	ALL		385100	3776800	1.34E-05	30YrCancer	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54	ALL		385200	3776800	1.43E-05	30YrCancer	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55	ALL		385300	3776800	1.45E-05	30YrCancer	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56	ALL		385400	3776800	1.28E-05	30YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57	ALL		383700	3776900	8.99E-06	30YrCancer	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58	ALL		383800	3776900	9.22E-06	30YrCancer	9.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59	ALL		383900	3776900	9.46E-06	30YrCancer	9.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60	ALL		384000	3776900	9.74E-06	30YrCancer	9.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61	ALL		384100	3776900	1.00E-05	30YrCancer	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62	ALL		384200	3776900	1.04E-05	30YrCancer	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63	ALL		384300	3776900	1.07E-05	30YrCancer	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64	ALL		384400	3776900	1.10E-05	30YrCancer	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65	ALL		384500	3776900	1.14E-05	30YrCancer	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66	ALL		384600	3776900	1.19E-05	30YrCancer	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67	ALL		384700	3776900	1.23E-05	30YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68	ALL		384800	3776900	1.23E-05	30YrCancer	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69	ALL		384900	3776900	1.11E-05	30YrCancer	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70	ALL		385000	3776900	9.66E-06	30YrCancer	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71	ALL		385100	3776900	1.20E-05	30YrCancer	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72	ALL		385200	3776900	1.28E-05	30YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73	ALL		385300	3776900	1.28E-05	30YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		385400	3776900	1.18E-05	30YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75	ALL		385500	3776900	1.05E-05	30YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76	ALL		385600	3776900	1.18E-05	30YrCancer	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77	ALL		385700	3776900	1.53E-05	30YrCancer	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78	ALL		385800	3776900	1.55E-05	30YrCancer	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79	ALL		385900	3776900	1.25E-05	30YrCancer	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80	ALL		386000	3776900	1.68E-05	30YrCancer	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81	ALL		383700	3777000	8.64E-06	30YrCancer	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82	ALL		383800	3777000	9.15E-06	30YrCancer	9.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83	ALL		383900	3777000	9.42E-06	30YrCancer	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84	ALL		384000	3777000	9.68E-06	30YrCancer	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85	ALL		384100	3777000	9.95E-06	30YrCancer	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86	ALL		384200	3777000	1.02E-05	30YrCancer	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87	ALL		384300	3777000	1.05E-05	30YrCancer	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88	ALL		384400	3777000	1.08E-05	30YrCancer	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
89	ALL		384500	3777000	1.12E-05	30YrCancer	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

90	ALL	384600	3777000	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
91	ALL	384700	3777000	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
92	ALL	384800	3777000	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
93	ALL	384900	3777000	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
94	ALL	385000	3777000	8.74E-06	30YrCancel	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
95	ALL	385100	3777000	9.85E-06	30YrCancel	9.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
96	ALL	385200	3777000	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
97	ALL	385300	3777000	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
98	ALL	385400	3777000	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
99	ALL	385500	3777000	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL	385600	3777000	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101	ALL	385700	3777000	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
102	ALL	385800	3777000	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103	ALL	385900	3777000	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
104	ALL	386000	3777000	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105	ALL	383600	3777100	8.70E-06	30YrCancel	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
106	ALL	383700	3777100	8.90E-06	30YrCancel	8.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107	ALL	383800	3777100	9.13E-06	30YrCancel	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108	ALL	383900	3777100	9.38E-06	30YrCancel	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
109	ALL	384000	3777100	9.62E-06	30YrCancel	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
110	ALL	384100	3777100	9.87E-06	30YrCancel	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
111	ALL	384200	3777100	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
112	ALL	384300	3777100	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
113	ALL	384400	3777100	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
114	ALL	384500	3777100	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
115	ALL	384600	3777100	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
116	ALL	384700	3777100	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
117	ALL	384800	3777100	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
118	ALL	384900	3777100	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
119	ALL	385000	3777100	9.64E-06	30YrCancel	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
120	ALL	385100	3777100	8.88E-06	30YrCancel	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121	ALL	385200	3777100	9.66E-06	30YrCancel	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
122	ALL	385300	3777100	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123	ALL	385400	3777100	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
124	ALL	385500	3777100	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
125	ALL	385600	3777100	1.55E-05	30YrCancel	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
126	ALL	385700	3777100	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
127	ALL	385800	3777100	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
128	ALL	385900	3777100	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
129	ALL	386000	3777100	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
130	ALL	383600	3777200	8.68E-06	30YrCancel	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
131	ALL	383700	3777200	8.89E-06	30YrCancel	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
132	ALL	383800	3777200	9.11E-06	30YrCancel	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
133	ALL	383900	3777200	9.33E-06	30YrCancel	9.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
134	ALL	384000	3777200	9.58E-06	30YrCancel	9.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
135	ALL	384100	3777200	9.82E-06	30YrCancel	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
136	ALL	384200	3777200	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
137	ALL	384300	3777200	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
138	ALL	384400	3777200	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
139	ALL	384500	3777200	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
140	ALL	384600	3777200	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
141	ALL	384700	3777200	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
142	ALL	384800	3777200	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
143	ALL	384900	3777200	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
144	ALL	385000	3777200	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
145	ALL	385100	3777200	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
146	ALL	385200	3777200	9.47E-06	30YrCancel	9.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
147	ALL	385300	3777200	9.68E-06	30YrCancel	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
148	ALL	385400	3777200	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
149	ALL	385500	3777200	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
150	ALL	385600	3777200	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
151	ALL	385700	3777200	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
152	ALL	385800	3777200	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
153	ALL	385900	3777200	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
154	ALL	386000	3777200	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
155	ALL	383500	3777300	8.49E-06	30YrCancel	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
156	ALL	383600	3777300	8.68E-06	30YrCancel	8.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
157	ALL	383700	3777300	8.88E-06	30YrCancel	8.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
158	ALL	383800	3777300	9.10E-06	30YrCancel	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
159	ALL	383900	3777300	9.32E-06	30YrCancel	9.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
160	ALL	384000	3777300	9.56E-06	30YrCancel	9.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
161	ALL	384100	3777300	9.80E-06	30YrCancel	9.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
162	ALL	384200	3777300	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
163	ALL	384300	3777300	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
164	ALL	384400	3777300	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
165	ALL	384500	3777300	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
166	ALL	384600	3777300	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
167	ALL	384700	3777300	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
168	ALL	384800	3777300	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
169	ALL	384900	3777300	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
170	ALL	385000	3777300	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
171	ALL	385100	3777300	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
172	ALL	385200	3777300	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
173	ALL	385300	3777300	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
174	ALL	385400	3777300	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
175	ALL	385500	3777300	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
176	ALL	385600	3777300	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
177	ALL	385700	3777300	1.75E-05	30YrCancel	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
178	ALL	385800	3777300	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
179	ALL	385900	3777300	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
180	ALL	386000	3777300	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

181	ALL	383500	3777400	8.51E-06	30YrCancel	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
182	ALL	383600	3777400	8.70E-06	30YrCancel	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
183	ALL	383700	3777400	8.89E-06	30YrCancel	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
184	ALL	383800	3777400	9.11E-06	30YrCancel	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
185	ALL	383900	3777400	9.35E-06	30YrCancel	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
186	ALL	384000	3777400	9.59E-06	30YrCancel	9.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
187	ALL	384100	3777400	9.82E-06	30YrCancel	9.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
188	ALL	384200	3777400	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
189	ALL	384300	3777400	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
190	ALL	384400	3777400	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
191	ALL	384500	3777400	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
192	ALL	384600	3777400	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
193	ALL	384700	3777400	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
194	ALL	384800	3777400	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
195	ALL	384900	3777400	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
196	ALL	385000	3777400	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
197	ALL	385100	3777400	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
198	ALL	385200	3777400	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
199	ALL	385300	3777400	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
200	ALL	385400	3777400	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
201	ALL	385500	3777400	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
202	ALL	385600	3777400	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
203	ALL	385700	3777400	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
204	ALL	385800	3777400	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
205	ALL	385900	3777400	1.75E-05	30YrCancel	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
206	ALL	386000	3777400	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
207	ALL	383400	3777500	8.38E-06	30YrCancel	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
208	ALL	383500	3777500	8.56E-06	30YrCancel	8.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
209	ALL	383600	3777500	8.73E-06	30YrCancel	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
210	ALL	383700	3777500	8.91E-06	30YrCancel	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
211	ALL	383800	3777500	9.13E-06	30YrCancel	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
212	ALL	383900	3777500	9.38E-06	30YrCancel	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
213	ALL	384000	3777500	9.62E-06	30YrCancel	9.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
214	ALL	384100	3777500	9.87E-06	30YrCancel	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
215	ALL	384200	3777500	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
216	ALL	384300	3777500	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
217	ALL	384400	3777500	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
218	ALL	384500	3777500	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
219	ALL	384600	3777500	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
220	ALL	384700	3777500	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
221	ALL	384800	3777500	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
222	ALL	384900	3777500	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
223	ALL	385000	3777500	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
224	ALL	385100	3777500	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
225	ALL	385200	3777500	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
226	ALL	385300	3777500	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
227	ALL	385400	3777500	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
228	ALL	385500	3777500	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
229	ALL	385600	3777500	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
230	ALL	385700	3777500	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
231	ALL	385800	3777500	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
232	ALL	385900	3777500	1.91E-05	30YrCancel	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
233	ALL	383400	3777600	8.45E-06	30YrCancel	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
234	ALL	383500	3777600	8.62E-06	30YrCancel	8.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
235	ALL	383600	3777600	8.81E-06	30YrCancel	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
236	ALL	383700	3777600	8.99E-06	30YrCancel	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
237	ALL	383800	3777600	9.20E-06	30YrCancel	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
238	ALL	383900	3777600	9.43E-06	30YrCancel	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
239	ALL	384000	3777600	9.66E-06	30YrCancel	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
240	ALL	384100	3777600	9.91E-06	30YrCancel	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
241	ALL	384200	3777600	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
242	ALL	384300	3777600	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
243	ALL	384400	3777600	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
244	ALL	384500	3777600	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
245	ALL	384600	3777600	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
246	ALL	384700	3777600	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
247	ALL	384800	3777600	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
248	ALL	384900	3777600	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
249	ALL	385000	3777600	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
250	ALL	385100	3777600	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
251	ALL	385200	3777600	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
252	ALL	385300	3777600	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
253	ALL	385400	3777600	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
254	ALL	385500	3777600	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
255	ALL	385600	3777600	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
256	ALL	385700	3777600	1.69E-05	30YrCancel	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
257	ALL	385800	3777600	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
258	ALL	385900	3777600	1.75E-05	30YrCancel	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
259	ALL	383400	3777700	8.55E-06	30YrCancel	8.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
260	ALL	383500	3777700	8.69E-06	30YrCancel	8.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
261	ALL	383600	3777700	8.89E-06	30YrCancel	8.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
262	ALL	383700	3777700	9.09E-06	30YrCancel	9.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
263	ALL	383800	3777700	9.27E-06	30YrCancel	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
264	ALL	383900	3777700	9.51E-06	30YrCancel	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
265	ALL	384000	3777700	9.73E-06	30YrCancel	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
266	ALL	384100	3777700	9.97E-06	30YrCancel	9.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
267	ALL	384200	3777700	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
268	ALL	384300	3777700	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
269	ALL	384400	3777700	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
270	ALL	384500	3777700	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
271	ALL	384600	3777700	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

272	ALL	384700	3777700	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
273	ALL	384800	3777700	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
274	ALL	384900	3777700	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
275	ALL	385000	3777700	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
276	ALL	385100	3777700	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
277	ALL	385200	3777700	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
278	ALL	385300	3777700	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
279	ALL	385400	3777700	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
280	ALL	385500	3777700	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
281	ALL	385600	3777700	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
282	ALL	385700	3777700	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
283	ALL	385800	3777700	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
284	ALL	385900	3777700	1.93E-05	30YrCancel	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
285	ALL	386000	3777700	2.07E-05	30YrCancel	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
286	ALL	383300	3777800	8.50E-06	30YrCancel	8.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
287	ALL	383400	3777800	8.65E-06	30YrCancel	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
288	ALL	383500	3777800	8.81E-06	30YrCancel	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
289	ALL	383600	3777800	9.02E-06	30YrCancel	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
290	ALL	383700	3777800	9.19E-06	30YrCancel	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
291	ALL	383800	3777800	9.39E-06	30YrCancel	9.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
292	ALL	383900	3777800	9.61E-06	30YrCancel	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
293	ALL	384000	3777800	9.84E-06	30YrCancel	9.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
294	ALL	384100	3777800	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
295	ALL	384200	3777800	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
296	ALL	384300	3777800	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
297	ALL	384400	3777800	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
298	ALL	384500	3777800	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
299	ALL	384600	3777800	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
300	ALL	384700	3777800	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
301	ALL	384800	3777800	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
302	ALL	384900	3777800	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
303	ALL	385000	3777800	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
304	ALL	385100	3777800	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
305	ALL	385200	3777800	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
306	ALL	385300	3777800	1.40E-05	30YrCancel	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
307	ALL	385400	3777800	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
308	ALL	385500	3777800	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
309	ALL	385600	3777800	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
310	ALL	385700	3777800	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
311	ALL	385800	3777800	1.79E-05	30YrCancel	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
312	ALL	385900	3777800	1.94E-05	30YrCancel	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
313	ALL	386000	3777800	2.10E-05	30YrCancel	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
314	ALL	386100	3777800	2.32E-05	30YrCancel	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
315	ALL	386200	3777800	2.59E-05	30YrCancel	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
316	ALL	383300	3777900	8.63E-06	30YrCancel	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
317	ALL	383400	3777900	8.78E-06	30YrCancel	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
318	ALL	383500	3777900	8.95E-06	30YrCancel	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
319	ALL	383600	3777900	9.13E-06	30YrCancel	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
320	ALL	383700	3777900	9.33E-06	30YrCancel	9.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
321	ALL	383800	3777900	9.51E-06	30YrCancel	9.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
322	ALL	383900	3777900	9.73E-06	30YrCancel	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
323	ALL	384000	3777900	9.96E-06	30YrCancel	9.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
324	ALL	384100	3777900	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
325	ALL	384200	3777900	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
326	ALL	384300	3777900	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
327	ALL	384400	3777900	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
328	ALL	384500	3777900	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
329	ALL	384600	3777900	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
330	ALL	384700	3777900	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
331	ALL	384800	3777900	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
332	ALL	384900	3777900	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
333	ALL	385000	3777900	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
334	ALL	385100	3777900	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
335	ALL	385200	3777900	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
336	ALL	385300	3777900	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
337	ALL	385400	3777900	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
338	ALL	385500	3777900	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
339	ALL	385600	3777900	1.61E-05	30YrCancel	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
340	ALL	385700	3777900	1.69E-05	30YrCancel	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
341	ALL	385800	3777900	1.80E-05	30YrCancel	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
342	ALL	385900	3777900	1.92E-05	30YrCancel	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
343	ALL	386000	3777900	2.09E-05	30YrCancel	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
344	ALL	386100	3777900	2.30E-05	30YrCancel	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
345	ALL	386200	3777900	2.58E-05	30YrCancel	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
346	ALL	386300	3777900	3.00E-05	30YrCancel	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
347	ALL	386400	3777900	3.72E-05	30YrCancel	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
348	ALL	386500	3777900	4.99E-05	30YrCancel	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
349	ALL	386600	3777900	1.07E-04	30YrCancel	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
350	ALL	386700	3777900	7.64E-05	30YrCancel	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
351	ALL	383200	3778000	8.64E-06	30YrCancel	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
352	ALL	383300	3778000	8.79E-06	30YrCancel	8.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
353	ALL	383400	3778000	8.93E-06	30YrCancel	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
354	ALL	383500	3778000	9.10E-06	30YrCancel	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
355	ALL	383600	3778000	9.31E-06	30YrCancel	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
356	ALL	383700	3778000	9.48E-06	30YrCancel	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
357	ALL	383800	3778000	9.67E-06	30YrCancel	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
358	ALL	383900	3778000	9.87E-06	30YrCancel	9.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
359	ALL	384000	3778000	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
360	ALL	384100	3778000	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
361	ALL	384200	3778000	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
362	ALL	384300	3778000	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

363	ALL	384400	3778000	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
364	ALL	384500	3778000	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
365	ALL	384600	3778000	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
366	ALL	384700	3778000	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
367	ALL	384800	3778000	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
368	ALL	384900	3778000	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
369	ALL	385000	3778000	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
370	ALL	385100	3778000	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
371	ALL	385200	3778000	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
372	ALL	385300	3778000	1.43E-05	30YrCancel	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
373	ALL	385400	3778000	1.49E-05	30YrCancel	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
374	ALL	385500	3778000	1.55E-05	30YrCancel	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
375	ALL	385600	3778000	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
376	ALL	385700	3778000	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
377	ALL	385800	3778000	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
378	ALL	385900	3778000	1.95E-05	30YrCancel	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
379	ALL	386000	3778000	2.11E-05	30YrCancel	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
380	ALL	386100	3778000	2.31E-05	30YrCancel	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
381	ALL	386200	3778000	2.59E-05	30YrCancel	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
382	ALL	386300	3778000	2.98E-05	30YrCancel	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
383	ALL	386400	3778000	3.62E-05	30YrCancel	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
384	ALL	386500	3778000	4.70E-05	30YrCancel	4.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
385	ALL	386600	3778000	8.21E-05	30YrCancel	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
386	ALL	386700	3778000	8.06E-05	30YrCancel	8.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
387	ALL	383200	3778100	8.85E-06	30YrCancel	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
388	ALL	383300	3778100	8.99E-06	30YrCancel	8.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
389	ALL	383400	3778100	9.12E-06	30YrCancel	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
390	ALL	383500	3778100	9.29E-06	30YrCancel	9.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
391	ALL	383600	3778100	9.49E-06	30YrCancel	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
392	ALL	383700	3778100	9.66E-06	30YrCancel	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
393	ALL	383800	3778100	9.85E-06	30YrCancel	9.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
394	ALL	383900	3778100	1.00E-05	30YrCancel	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
395	ALL	384000	3778100	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
396	ALL	384100	3778100	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
397	ALL	384200	3778100	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
398	ALL	384300	3778100	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
399	ALL	384400	3778100	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
400	ALL	384500	3778100	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
401	ALL	384600	3778100	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
402	ALL	384700	3778100	1.20E-05	30YrCancel	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
403	ALL	384800	3778100	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
404	ALL	384900	3778100	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
405	ALL	385000	3778100	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
406	ALL	385100	3778100	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
407	ALL	385200	3778100	1.40E-05	30YrCancel	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
408	ALL	385300	3778100	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
409	ALL	385400	3778100	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
410	ALL	385500	3778100	1.57E-05	30YrCancel	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
411	ALL	385600	3778100	1.65E-05	30YrCancel	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
412	ALL	385700	3778100	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
413	ALL	385800	3778100	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
414	ALL	385900	3778100	1.97E-05	30YrCancel	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
415	ALL	386000	3778100	2.13E-05	30YrCancel	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
416	ALL	386100	3778100	2.33E-05	30YrCancel	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
417	ALL	386200	3778100	2.60E-05	30YrCancel	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
418	ALL	386300	3778100	2.97E-05	30YrCancel	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
419	ALL	386400	3778100	3.54E-05	30YrCancel	3.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
420	ALL	386500	3778100	4.60E-05	30YrCancel	4.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
421	ALL	386600	3778100	6.92E-05	30YrCancel	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
422	ALL	386700	3778100	6.71E-05	30YrCancel	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
423	ALL	383200	3778200	9.07E-06	30YrCancel	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
424	ALL	383300	3778200	9.21E-06	30YrCancel	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
425	ALL	383400	3778200	9.35E-06	30YrCancel	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
426	ALL	383500	3778200	9.50E-06	30YrCancel	9.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
427	ALL	383600	3778200	9.68E-06	30YrCancel	9.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
428	ALL	383700	3778200	9.86E-06	30YrCancel	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
429	ALL	383800	3778200	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
430	ALL	383900	3778200	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
431	ALL	384000	3778200	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
432	ALL	384100	3778200	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
433	ALL	384200	3778200	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
434	ALL	384300	3778200	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
435	ALL	384400	3778200	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
436	ALL	384500	3778200	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
437	ALL	384600	3778200	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
438	ALL	384700	3778200	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
439	ALL	384800	3778200	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
440	ALL	384900	3778200	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
441	ALL	385000	3778200	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
442	ALL	385100	3778200	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
443	ALL	385200	3778200	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
444	ALL	385300	3778200	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
445	ALL	385400	3778200	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
446	ALL	385500	3778200	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
447	ALL	385600	3778200	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
448	ALL	385700	3778200	1.77E-05	30YrCancel	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
449	ALL	385800	3778200	1.87E-05	30YrCancel	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
450	ALL	385900	3778200	2.00E-05	30YrCancel	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
451	ALL	386000	3778200	2.16E-05	30YrCancel	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
452	ALL	386100	3778200	2.36E-05	30YrCancel	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
453	ALL	386200	3778200	2.61E-05	30YrCancel	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

454	ALL	386300	3778200	2.97E-05	30YrCancel	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
455	ALL	386400	3778200	3.49E-05	30YrCancel	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
456	ALL	386500	3778200	4.42E-05	30YrCancel	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
457	ALL	386600	3778200	6.43E-05	30YrCancel	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
458	ALL	383100	3778300	9.17E-06	30YrCancel	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
459	ALL	383200	3778300	9.30E-06	30YrCancel	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
460	ALL	383300	3778300	9.45E-06	30YrCancel	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
461	ALL	383400	3778300	9.58E-06	30YrCancel	9.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
462	ALL	383500	3778300	9.73E-06	30YrCancel	9.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
463	ALL	383600	3778300	9.90E-06	30YrCancel	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
464	ALL	383700	3778300	1.01E-05	30YrCancel	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
465	ALL	383800	3778300	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
466	ALL	383900	3778300	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
467	ALL	384000	3778300	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
468	ALL	384100	3778300	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
469	ALL	384200	3778300	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
470	ALL	384300	3778300	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
471	ALL	384400	3778300	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
472	ALL	384500	3778300	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
473	ALL	384600	3778300	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
474	ALL	384700	3778300	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
475	ALL	384800	3778300	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
476	ALL	384900	3778300	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
477	ALL	385000	3778300	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
478	ALL	385100	3778300	1.40E-05	30YrCancel	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
479	ALL	385200	3778300	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
480	ALL	385300	3778300	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
481	ALL	385400	3778300	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
482	ALL	385500	3778300	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
483	ALL	385600	3778300	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
484	ALL	385700	3778300	1.80E-05	30YrCancel	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
485	ALL	385800	3778300	1.90E-05	30YrCancel	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
486	ALL	385900	3778300	2.03E-05	30YrCancel	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
487	ALL	386000	3778300	2.19E-05	30YrCancel	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
488	ALL	386100	3778300	2.39E-05	30YrCancel	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
489	ALL	386200	3778300	2.64E-05	30YrCancel	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
490	ALL	386300	3778300	2.98E-05	30YrCancel	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
491	ALL	386400	3778300	3.47E-05	30YrCancel	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
492	ALL	386500	3778300	4.29E-05	30YrCancel	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
493	ALL	386600	3778300	6.01E-05	30YrCancel	6.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
494	ALL	386700	3778300	1.35E-04	30YrCancel	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
495	ALL	383100	3778400	9.45E-06	30YrCancel	9.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
496	ALL	383200	3778400	9.58E-06	30YrCancel	9.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
497	ALL	383300	3778400	9.71E-06	30YrCancel	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
498	ALL	383400	3778400	9.86E-06	30YrCancel	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
499	ALL	383500	3778400	1.00E-05	30YrCancel	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
500	ALL	383600	3778400	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
501	ALL	383700	3778400	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
502	ALL	383800	3778400	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
503	ALL	383900	3778400	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
504	ALL	384000	3778400	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
505	ALL	384100	3778400	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
506	ALL	384200	3778400	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
507	ALL	384300	3778400	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
508	ALL	384400	3778400	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
509	ALL	384500	3778400	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
510	ALL	384600	3778400	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
511	ALL	384700	3778400	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
512	ALL	384800	3778400	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
513	ALL	384900	3778400	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
514	ALL	385000	3778400	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
515	ALL	385100	3778400	1.43E-05	30YrCancel	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
516	ALL	385200	3778400	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
517	ALL	385300	3778400	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
518	ALL	385400	3778400	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
519	ALL	385500	3778400	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
520	ALL	385600	3778400	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
521	ALL	385700	3778400	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
522	ALL	385800	3778400	1.94E-05	30YrCancel	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
523	ALL	385900	3778400	2.07E-05	30YrCancel	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
524	ALL	386000	3778400	2.23E-05	30YrCancel	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
525	ALL	386100	3778400	2.43E-05	30YrCancel	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
526	ALL	386200	3778400	2.67E-05	30YrCancel	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
527	ALL	386300	3778400	3.01E-05	30YrCancel	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
528	ALL	386400	3778400	3.48E-05	30YrCancel	3.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
529	ALL	386500	3778400	4.22E-05	30YrCancel	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
530	ALL	386600	3778400	5.69E-05	30YrCancel	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
531	ALL	386700	3778400	1.04E-04	30YrCancel	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
532	ALL	383000	3778500	9.67E-06	30YrCancel	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
533	ALL	383100	3778500	9.77E-06	30YrCancel	9.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
534	ALL	383200	3778500	9.90E-06	30YrCancel	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
535	ALL	383300	3778500	1.00E-05	30YrCancel	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
536	ALL	383400	3778500	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
537	ALL	383500	3778500	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
538	ALL	383600	3778500	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
539	ALL	383700	3778500	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
540	ALL	383800	3778500	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
541	ALL	383900	3778500	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
542	ALL	384000	3778500	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
543	ALL	384100	3778500	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
544	ALL	384200	3778500	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

545	ALL	384300	3778500	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
546	ALL	384400	3778500	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
547	ALL	384500	3778500	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
548	ALL	384600	3778500	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
549	ALL	384700	3778500	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
550	ALL	384800	3778500	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
551	ALL	384900	3778500	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
552	ALL	385000	3778500	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
553	ALL	385100	3778500	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
554	ALL	385200	3778500	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
555	ALL	385300	3778500	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
556	ALL	385400	3778500	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
557	ALL	385500	3778500	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
558	ALL	385600	3778500	1.78E-05	30YrCancel	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
559	ALL	385700	3778500	1.87E-05	30YrCancel	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
560	ALL	385800	3778500	1.98E-05	30YrCancel	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
561	ALL	385900	3778500	2.12E-05	30YrCancel	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
562	ALL	386000	3778500	2.28E-05	30YrCancel	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
563	ALL	386100	3778500	2.47E-05	30YrCancel	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
564	ALL	386200	3778500	2.72E-05	30YrCancel	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
565	ALL	386300	3778500	3.04E-05	30YrCancel	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
566	ALL	386400	3778500	3.50E-05	30YrCancel	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
567	ALL	386500	3778500	4.18E-05	30YrCancel	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
568	ALL	386600	3778500	5.42E-05	30YrCancel	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
569	ALL	386700	3778500	8.65E-05	30YrCancel	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
570	ALL	383000	3778600	9.91E-06	30YrCancel	9.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
571	ALL	383100	3778600	1.00E-05	30YrCancel	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
572	ALL	383200	3778600	1.03E-05	30YrCancel	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
573	ALL	383300	3778600	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
574	ALL	383400	3778600	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
575	ALL	383500	3778600	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
576	ALL	383600	3778600	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
577	ALL	383700	3778600	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
578	ALL	383800	3778600	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
579	ALL	383900	3778600	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
580	ALL	384000	3778600	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
581	ALL	384100	3778600	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
582	ALL	384200	3778600	1.20E-05	30YrCancel	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
583	ALL	384300	3778600	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
584	ALL	384400	3778600	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
585	ALL	384500	3778600	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
586	ALL	384600	3778600	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
587	ALL	384700	3778600	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
588	ALL	384800	3778600	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
589	ALL	384900	3778600	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
590	ALL	385000	3778600	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
591	ALL	385100	3778600	1.49E-05	30YrCancel	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
592	ALL	385200	3778600	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
593	ALL	385300	3778600	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
594	ALL	385400	3778600	1.67E-05	30YrCancel	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
595	ALL	385500	3778600	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
596	ALL	385600	3778600	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
597	ALL	385700	3778600	1.92E-05	30YrCancel	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
598	ALL	385800	3778600	2.04E-05	30YrCancel	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
599	ALL	385900	3778600	2.17E-05	30YrCancel	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
600	ALL	386000	3778600	2.34E-05	30YrCancel	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
601	ALL	386100	3778600	2.53E-05	30YrCancel	2.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
602	ALL	386200	3778600	2.78E-05	30YrCancel	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
603	ALL	386300	3778600	3.10E-05	30YrCancel	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
604	ALL	386400	3778600	3.53E-05	30YrCancel	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
605	ALL	386500	3778600	4.16E-05	30YrCancel	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
606	ALL	386600	3778600	5.22E-05	30YrCancel	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
607	ALL	386700	3778600	7.61E-05	30YrCancel	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
608	ALL	382900	3778700	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
609	ALL	383000	3778700	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
610	ALL	383100	3778700	1.06E-05	30YrCancel	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
611	ALL	383200	3778700	1.07E-05	30YrCancel	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
612	ALL	383300	3778700	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
613	ALL	383400	3778700	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
614	ALL	383500	3778700	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
615	ALL	383600	3778700	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
616	ALL	383700	3778700	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
617	ALL	383800	3778700	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
618	ALL	383900	3778700	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
619	ALL	384000	3778700	1.20E-05	30YrCancel	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
620	ALL	384100	3778700	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
621	ALL	384200	3778700	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
622	ALL	384300	3778700	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
623	ALL	384400	3778700	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
624	ALL	384500	3778700	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
625	ALL	384600	3778700	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
626	ALL	384700	3778700	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
627	ALL	384800	3778700	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
628	ALL	384900	3778700	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
629	ALL	385000	3778700	1.49E-05	30YrCancel	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
630	ALL	385100	3778700	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
631	ALL	385200	3778700	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
632	ALL	385300	3778700	1.65E-05	30YrCancel	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
633	ALL	385400	3778700	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
634	ALL	385500	3778700	1.79E-05	30YrCancel	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
635	ALL	385600	3778700	1.88E-05	30YrCancel	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

636	ALL	385700	3778700	1.98E-05	30YrCancel	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
637	ALL	385800	3778700	2.10E-05	30YrCancel	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
638	ALL	385900	3778700	2.24E-05	30YrCancel	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
639	ALL	386000	3778700	2.41E-05	30YrCancel	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
640	ALL	386100	3778700	2.61E-05	30YrCancel	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
641	ALL	386200	3778700	2.86E-05	30YrCancel	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
642	ALL	386300	3778700	3.23E-05	30YrCancel	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
643	ALL	386400	3778700	3.74E-05	30YrCancel	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
644	ALL	386500	3778700	4.39E-05	30YrCancel	4.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
645	ALL	386600	3778700	5.17E-05	30YrCancel	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
646	ALL	386700	3778700	7.00E-05	30YrCancel	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
647	ALL	382900	3778800	1.09E-05	30YrCancel	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
648	ALL	383000	3778800	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
649	ALL	383100	3778800	1.11E-05	30YrCancel	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
650	ALL	383200	3778800	1.12E-05	30YrCancel	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
651	ALL	383300	3778800	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
652	ALL	383400	3778800	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
653	ALL	383500	3778800	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
654	ALL	383600	3778800	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
655	ALL	383700	3778800	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
656	ALL	383800	3778800	1.20E-05	30YrCancel	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
657	ALL	383900	3778800	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
658	ALL	384000	3778800	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
659	ALL	384100	3778800	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
660	ALL	384200	3778800	1.28E-05	30YrCancel	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
661	ALL	384300	3778800	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
662	ALL	384400	3778800	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
663	ALL	384500	3778800	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
664	ALL	384600	3778800	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
665	ALL	384700	3778800	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
666	ALL	384800	3778800	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
667	ALL	384900	3778800	1.49E-05	30YrCancel	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
668	ALL	385000	3778800	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
669	ALL	385100	3778800	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
670	ALL	385200	3778800	1.64E-05	30YrCancel	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
671	ALL	385300	3778800	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
672	ALL	385400	3778800	1.77E-05	30YrCancel	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
673	ALL	385500	3778800	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
674	ALL	385600	3778800	1.94E-05	30YrCancel	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
675	ALL	385700	3778800	2.05E-05	30YrCancel	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
676	ALL	385800	3778800	2.17E-05	30YrCancel	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
677	ALL	385900	3778800	2.32E-05	30YrCancel	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
678	ALL	386000	3778800	2.51E-05	30YrCancel	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
679	ALL	386100	3778800	2.74E-05	30YrCancel	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
680	ALL	386200	3778800	3.03E-05	30YrCancel	3.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
681	ALL	386300	3778800	3.38E-05	30YrCancel	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
682	ALL	386400	3778800	3.88E-05	30YrCancel	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
683	ALL	386500	3778800	4.45E-05	30YrCancel	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
684	ALL	386600	3778800	5.26E-05	30YrCancel	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
685	ALL	386700	3778800	6.73E-05	30YrCancel	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
686	ALL	382900	3778900	1.15E-05	30YrCancel	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
687	ALL	383000	3778900	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
688	ALL	383100	3778900	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
689	ALL	383200	3778900	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
690	ALL	383300	3778900	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
691	ALL	383400	3778900	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
692	ALL	383500	3778900	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
693	ALL	383600	3778900	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
694	ALL	383700	3778900	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
695	ALL	383800	3778900	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
696	ALL	383900	3778900	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
697	ALL	384000	3778900	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
698	ALL	384100	3778900	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
699	ALL	384200	3778900	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
700	ALL	384300	3778900	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
701	ALL	384400	3778900	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
702	ALL	384500	3778900	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
703	ALL	384600	3778900	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
704	ALL	384700	3778900	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
705	ALL	384800	3778900	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
706	ALL	384900	3778900	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
707	ALL	385000	3778900	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
708	ALL	385100	3778900	1.64E-05	30YrCancel	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
709	ALL	385200	3778900	1.69E-05	30YrCancel	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
710	ALL	385300	3778900	1.76E-05	30YrCancel	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
711	ALL	385400	3778900	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
712	ALL	385500	3778900	1.92E-05	30YrCancel	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
713	ALL	385600	3778900	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
714	ALL	385700	3778900	2.14E-05	30YrCancel	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
715	ALL	385800	3778900	2.28E-05	30YrCancel	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
716	ALL	385900	3778900	2.46E-05	30YrCancel	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
717	ALL	386000	3778900	2.67E-05	30YrCancel	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718	ALL	386100	3778900	2.91E-05	30YrCancel	2.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719	ALL	386200	3778900	3.22E-05	30YrCancel	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720	ALL	386300	3778900	3.62E-05	30YrCancel	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721	ALL	386400	3778900	4.08E-05	30YrCancel	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722	ALL	386500	3778900	4.69E-05	30YrCancel	4.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
723	ALL	386600	3778900	5.52E-05	30YrCancel	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
724	ALL	386700	3778900	6.83E-05	30YrCancel	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
725	ALL	382800	3779000	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
726	ALL	382900	3779000	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

727	ALL	383000	3779000	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
728	ALL	383100	3779000	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
729	ALL	383200	3779000	1.24E-05	30YrCancel	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
730	ALL	383300	3779000	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
731	ALL	383400	3779000	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
732	ALL	383500	3779000	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
733	ALL	383600	3779000	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
734	ALL	383700	3779000	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
735	ALL	383800	3779000	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
736	ALL	383900	3779000	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
737	ALL	384000	3779000	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
738	ALL	384100	3779000	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
739	ALL	384200	3779000	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
740	ALL	384300	3779000	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
741	ALL	384400	3779000	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
742	ALL	384500	3779000	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
743	ALL	384600	3779000	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
744	ALL	384700	3779000	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
745	ALL	384800	3779000	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
746	ALL	384900	3779000	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
747	ALL	385000	3779000	1.65E-05	30YrCancel	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
748	ALL	385100	3779000	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
749	ALL	385200	3779000	1.76E-05	30YrCancel	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
750	ALL	385300	3779000	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
751	ALL	385400	3779000	1.91E-05	30YrCancel	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
752	ALL	385500	3779000	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
753	ALL	385600	3779000	2.12E-05	30YrCancel	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
754	ALL	385700	3779000	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
755	ALL	385800	3779000	2.42E-05	30YrCancel	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
756	ALL	385900	3779000	2.62E-05	30YrCancel	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
757	ALL	386000	3779000	2.86E-05	30YrCancel	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
758	ALL	386100	3779000	3.14E-05	30YrCancel	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
759	ALL	386200	3779000	3.50E-05	30YrCancel	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
760	ALL	386300	3779000	3.94E-05	30YrCancel	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
761	ALL	386400	3779000	4.44E-05	30YrCancel	4.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
762	ALL	386500	3779000	5.09E-05	30YrCancel	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
763	ALL	386600	3779000	6.03E-05	30YrCancel	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
764	ALL	386700	3779000	7.46E-05	30YrCancel	7.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
765	ALL	382800	3779100	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
766	ALL	382900	3779100	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
767	ALL	383000	3779100	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
768	ALL	383100	3779100	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
769	ALL	383200	3779100	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
770	ALL	383300	3779100	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
771	ALL	383400	3779100	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
772	ALL	383500	3779100	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
773	ALL	383600	3779100	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
774	ALL	383700	3779100	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
775	ALL	383800	3779100	1.39E-05	30YrCancel	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
776	ALL	383900	3779100	1.40E-05	30YrCancel	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
777	ALL	384000	3779100	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
778	ALL	384100	3779100	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
779	ALL	384200	3779100	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
780	ALL	384300	3779100	1.48E-05	30YrCancel	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
781	ALL	384400	3779100	1.51E-05	30YrCancel	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
782	ALL	384500	3779100	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
783	ALL	384600	3779100	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
784	ALL	384700	3779100	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
785	ALL	384800	3779100	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
786	ALL	384900	3779100	1.67E-05	30YrCancel	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
787	ALL	385000	3779100	1.72E-05	30YrCancel	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
788	ALL	385100	3779100	1.78E-05	30YrCancel	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
789	ALL	385200	3779100	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
790	ALL	385300	3779100	1.92E-05	30YrCancel	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
791	ALL	385400	3779100	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
792	ALL	385500	3779100	2.12E-05	30YrCancel	2.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
793	ALL	385600	3779100	2.24E-05	30YrCancel	2.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
794	ALL	385700	3779100	2.39E-05	30YrCancel	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
795	ALL	385800	3779100	2.58E-05	30YrCancel	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
796	ALL	385900	3779100	2.81E-05	30YrCancel	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
797	ALL	386000	3779100	3.08E-05	30YrCancel	3.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
798	ALL	386100	3779100	3.41E-05	30YrCancel	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
799	ALL	386200	3779100	3.83E-05	30YrCancel	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
800	ALL	386300	3779100	4.35E-05	30YrCancel	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
801	ALL	386400	3779100	4.99E-05	30YrCancel	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
802	ALL	386500	3779100	5.89E-05	30YrCancel	5.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
803	ALL	386600	3779100	7.22E-05	30YrCancel	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
804	ALL	386700	3779100	9.34E-05	30YrCancel	9.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
805	ALL	382700	3779200	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
806	ALL	382800	3779200	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
807	ALL	382900	3779200	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
808	ALL	383000	3779200	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
809	ALL	383100	3779200	1.40E-05	30YrCancel	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
810	ALL	383200	3779200	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
811	ALL	383300	3779200	1.41E-05	30YrCancel	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
812	ALL	383400	3779200	1.42E-05	30YrCancel	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
813	ALL	383500	3779200	1.43E-05	30YrCancel	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
814	ALL	383600	3779200	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
815	ALL	383700	3779200	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
816	ALL	383800	3779200	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
817	ALL	383900	3779200	1.48E-05	30YrCancel	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

818	ALL	384000	3779200	1.50E-05	30YrCancel	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
819	ALL	384100	3779200	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
820	ALL	384200	3779200	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
821	ALL	384300	3779200	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822	ALL	384400	3779200	1.59E-05	30YrCancel	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
823	ALL	384500	3779200	1.61E-05	30YrCancel	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
824	ALL	384600	3779200	1.64E-05	30YrCancel	1.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
825	ALL	384700	3779200	1.67E-05	30YrCancel	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
826	ALL	384800	3779200	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
827	ALL	384900	3779200	1.75E-05	30YrCancel	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
828	ALL	385000	3779200	1.81E-05	30YrCancel	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
829	ALL	385100	3779200	1.87E-05	30YrCancel	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
830	ALL	385200	3779200	1.95E-05	30YrCancel	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
831	ALL	385300	3779200	2.03E-05	30YrCancel	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
832	ALL	385400	3779200	2.13E-05	30YrCancel	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
833	ALL	385500	3779200	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
834	ALL	385600	3779200	2.39E-05	30YrCancel	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
835	ALL	385700	3779200	2.56E-05	30YrCancel	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
836	ALL	385800	3779200	2.78E-05	30YrCancel	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
837	ALL	385900	3779200	3.04E-05	30YrCancel	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
838	ALL	386000	3779200	3.37E-05	30YrCancel	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
839	ALL	386100	3779200	3.77E-05	30YrCancel	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
840	ALL	386200	3779200	4.30E-05	30YrCancel	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
841	ALL	386300	3779200	5.02E-05	30YrCancel	5.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
842	ALL	386400	3779200	6.07E-05	30YrCancel	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
843	ALL	386500	3779200	7.78E-05	30YrCancel	7.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
844	ALL	386600	3779200	1.13E-04	30YrCancel	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
845	ALL	386700	3779200	1.40E-04	30YrCancel	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
846	ALL	386800	3779200	1.64E-04	30YrCancel	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
847	ALL	382700	3779300	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
848	ALL	382800	3779300	1.55E-05	30YrCancel	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
849	ALL	382900	3779300	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
850	ALL	383000	3779300	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
851	ALL	383100	3779300	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
852	ALL	383200	3779300	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
853	ALL	383300	3779300	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
854	ALL	383400	3779300	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
855	ALL	383500	3779300	1.54E-05	30YrCancel	1.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
856	ALL	383600	3779300	1.55E-05	30YrCancel	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
857	ALL	383700	3779300	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
858	ALL	383800	3779300	1.57E-05	30YrCancel	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
859	ALL	383900	3779300	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
860	ALL	384000	3779300	1.60E-05	30YrCancel	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
861	ALL	384100	3779300	1.61E-05	30YrCancel	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
862	ALL	384200	3779300	1.63E-05	30YrCancel	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
863	ALL	384300	3779300	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
864	ALL	384400	3779300	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
865	ALL	384500	3779300	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
866	ALL	384600	3779300	1.73E-05	30YrCancel	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
867	ALL	384700	3779300	1.77E-05	30YrCancel	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
868	ALL	384800	3779300	1.80E-05	30YrCancel	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
869	ALL	384900	3779300	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
870	ALL	385000	3779300	1.91E-05	30YrCancel	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
871	ALL	385100	3779300	1.98E-05	30YrCancel	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
872	ALL	385200	3779300	2.06E-05	30YrCancel	2.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
873	ALL	385300	3779300	2.15E-05	30YrCancel	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
874	ALL	385400	3779300	2.26E-05	30YrCancel	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
875	ALL	385500	3779300	2.40E-05	30YrCancel	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
876	ALL	385600	3779300	2.56E-05	30YrCancel	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
877	ALL	385700	3779300	2.76E-05	30YrCancel	2.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
878	ALL	385800	3779300	3.01E-05	30YrCancel	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
879	ALL	385900	3779300	3.33E-05	30YrCancel	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
880	ALL	386000	3779300	3.75E-05	30YrCancel	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
881	ALL	386100	3779300	4.32E-05	30YrCancel	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
882	ALL	386200	3779300	5.14E-05	30YrCancel	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
883	ALL	386300	3779300	6.43E-05	30YrCancel	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
884	ALL	386400	3779300	9.01E-05	30YrCancel	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
885	ALL	386500	3779300	1.27E-04	30YrCancel	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
886	ALL	386600	3779300	1.33E-04	30YrCancel	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
887	ALL	386700	3779300	1.17E-04	30YrCancel	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
888	ALL	382700	3779400	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
889	ALL	382800	3779400	1.72E-05	30YrCancel	1.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
890	ALL	382900	3779400	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
891	ALL	383000	3779400	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
892	ALL	383100	3779400	1.67E-05	30YrCancel	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
893	ALL	383200	3779400	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
894	ALL	383300	3779400	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
895	ALL	383400	3779400	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
896	ALL	383500	3779400	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
897	ALL	383600	3779400	1.67E-05	30YrCancel	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
898	ALL	383700	3779400	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
899	ALL	383800	3779400	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
900	ALL	383900	3779400	1.70E-05	30YrCancel	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
901	ALL	384000	3779400	1.71E-05	30YrCancel	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
902	ALL	384100	3779400	1.73E-05	30YrCancel	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL	384200	3779400	1.75E-05	30YrCancel	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
904	ALL	384300	3779400	1.77E-05	30YrCancel	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
905	ALL	384400	3779400	1.79E-05	30YrCancel	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
906	ALL	384500	3779400	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
907	ALL	384600	3779400	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
908	ALL	384700	3779400	1.88E-05	30YrCancel	1.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

909	ALL	384800	3779400	1.93E-05	30YrCancel	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
910	ALL	384900	3779400	1.98E-05	30YrCancel	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
911	ALL	385000	3779400	2.04E-05	30YrCancel	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
912	ALL	385100	3779400	2.11E-05	30YrCancel	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
913	ALL	385200	3779400	2.19E-05	30YrCancel	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
914	ALL	385300	3779400	2.29E-05	30YrCancel	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
915	ALL	385400	3779400	2.42E-05	30YrCancel	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
916	ALL	385500	3779400	2.58E-05	30YrCancel	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
917	ALL	385600	3779400	2.77E-05	30YrCancel	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
918	ALL	385700	3779400	3.00E-05	30YrCancel	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
919	ALL	385800	3779400	3.31E-05	30YrCancel	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
920	ALL	385900	3779400	3.72E-05	30YrCancel	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
921	ALL	386000	3779400	4.32E-05	30YrCancel	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
922	ALL	386100	3779400	5.24E-05	30YrCancel	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
923	ALL	386200	3779400	6.88E-05	30YrCancel	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
924	ALL	386300	3779400	1.10E-04	30YrCancel	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
925	ALL	386400	3779400	1.16E-04	30YrCancel	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
926	ALL	386500	3779400	1.33E-04	30YrCancel	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
927	ALL	382600	3779500	2.04E-05	30YrCancel	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
928	ALL	382700	3779500	1.99E-05	30YrCancel	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
929	ALL	382800	3779500	1.94E-05	30YrCancel	1.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
930	ALL	382900	3779500	1.90E-05	30YrCancel	1.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
931	ALL	383000	3779500	1.87E-05	30YrCancel	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
932	ALL	383100	3779500	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
933	ALL	383200	3779500	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
934	ALL	383300	3779500	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
935	ALL	383400	3779500	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
936	ALL	383500	3779500	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
937	ALL	383600	3779500	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
938	ALL	383700	3779500	1.82E-05	30YrCancel	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
939	ALL	383800	3779500	1.83E-05	30YrCancel	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
940	ALL	383900	3779500	1.84E-05	30YrCancel	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
941	ALL	384000	3779500	1.85E-05	30YrCancel	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
942	ALL	384100	3779500	1.87E-05	30YrCancel	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
943	ALL	384200	3779500	1.89E-05	30YrCancel	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
944	ALL	384300	3779500	1.91E-05	30YrCancel	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
945	ALL	384400	3779500	1.93E-05	30YrCancel	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
946	ALL	384500	3779500	1.95E-05	30YrCancel	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
947	ALL	384600	3779500	1.99E-05	30YrCancel	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
948	ALL	384700	3779500	2.03E-05	30YrCancel	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
949	ALL	384800	3779500	2.08E-05	30YrCancel	2.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
950	ALL	384900	3779500	2.13E-05	30YrCancel	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
951	ALL	385000	3779500	2.19E-05	30YrCancel	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
952	ALL	385100	3779500	2.26E-05	30YrCancel	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
953	ALL	385200	3779500	2.36E-05	30YrCancel	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
954	ALL	385300	3779500	2.47E-05	30YrCancel	2.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
955	ALL	385400	3779500	2.61E-05	30YrCancel	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
956	ALL	385500	3779500	2.79E-05	30YrCancel	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
957	ALL	385600	3779500	3.01E-05	30YrCancel	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
958	ALL	385700	3779500	3.31E-05	30YrCancel	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
959	ALL	385800	3779500	3.72E-05	30YrCancel	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
960	ALL	385900	3779500	4.31E-05	30YrCancel	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
961	ALL	386000	3779500	5.28E-05	30YrCancel	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
962	ALL	386100	3779500	7.17E-05	30YrCancel	7.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
963	ALL	386200	3779500	1.32E-04	30YrCancel	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
964	ALL	386300	3779500	1.13E-04	30YrCancel	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
965	ALL	386400	3779500	1.00E-04	30YrCancel	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
966	ALL	382600	3779600	2.42E-05	30YrCancel	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL	382700	3779600	2.33E-05	30YrCancel	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
968	ALL	382800	3779600	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
969	ALL	382900	3779600	2.19E-05	30YrCancel	2.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
970	ALL	383000	3779600	2.14E-05	30YrCancel	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
971	ALL	383100	3779600	2.10E-05	30YrCancel	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
972	ALL	383200	3779600	2.07E-05	30YrCancel	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
973	ALL	383300	3779600	2.04E-05	30YrCancel	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
974	ALL	383400	3779600	2.02E-05	30YrCancel	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
975	ALL	383500	3779600	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
976	ALL	383600	3779600	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
977	ALL	383700	3779600	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
978	ALL	383800	3779600	2.01E-05	30YrCancel	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
979	ALL	383900	3779600	2.02E-05	30YrCancel	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
980	ALL	384000	3779600	2.03E-05	30YrCancel	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
981	ALL	384100	3779600	2.05E-05	30YrCancel	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
982	ALL	384200	3779600	2.07E-05	30YrCancel	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
983	ALL	384300	3779600	2.09E-05	30YrCancel	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
984	ALL	384400	3779600	2.11E-05	30YrCancel	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
985	ALL	384500	3779600	2.14E-05	30YrCancel	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
986	ALL	384600	3779600	2.17E-05	30YrCancel	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
987	ALL	384700	3779600	2.21E-05	30YrCancel	2.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
988	ALL	384800	3779600	2.26E-05	30YrCancel	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
989	ALL	384900	3779600	2.32E-05	30YrCancel	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
990	ALL	385000	3779600	2.38E-05	30YrCancel	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
991	ALL	385100	3779600	2.46E-05	30YrCancel	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
992	ALL	385200	3779600	2.56E-05	30YrCancel	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
993	ALL	385300	3779600	2.68E-05	30YrCancel	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
994	ALL	385400	3779600	2.84E-05	30YrCancel	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
995	ALL	385500	3779600	3.05E-05	30YrCancel	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
996	ALL	385600	3779600	3.34E-05	30YrCancel	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
997	ALL	385700	3779600	3.74E-05	30YrCancel	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
998	ALL	385800	3779600	4.33E-05	30YrCancel	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
999	ALL	385900	3779600	5.32E-05	30YrCancel	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1000	ALL	386000	3779600	7.33E-05	30YrCancel	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1001	ALL	386100	3779600	1.28E-04	30YrCancel	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1002	ALL	386200	3779600	1.58E-04	30YrCancel	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1003	ALL	382500	3779700	3.21E-05	30YrCancel	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1004	ALL	382600	3779700	3.02E-05	30YrCancel	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1005	ALL	382700	3779700	2.86E-05	30YrCancel	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1006	ALL	382800	3779700	2.72E-05	30YrCancel	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1007	ALL	382900	3779700	2.61E-05	30YrCancel	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1008	ALL	383000	3779700	2.52E-05	30YrCancel	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1009	ALL	383100	3779700	2.44E-05	30YrCancel	2.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1010	ALL	383200	3779700	2.38E-05	30YrCancel	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1011	ALL	383300	3779700	2.33E-05	30YrCancel	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1012	ALL	383400	3779700	2.29E-05	30YrCancel	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1013	ALL	383500	3779700	2.27E-05	30YrCancel	2.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1014	ALL	383600	3779700	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1015	ALL	383700	3779700	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1016	ALL	383800	3779700	2.25E-05	30YrCancel	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1017	ALL	383900	3779700	2.26E-05	30YrCancel	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1018	ALL	384000	3779700	2.28E-05	30YrCancel	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1019	ALL	384100	3779700	2.29E-05	30YrCancel	2.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1020	ALL	384200	3779700	2.31E-05	30YrCancel	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1021	ALL	384300	3779700	2.33E-05	30YrCancel	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1022	ALL	384400	3779700	2.36E-05	30YrCancel	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1023	ALL	384500	3779700	2.38E-05	30YrCancel	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1024	ALL	384600	3779700	2.42E-05	30YrCancel	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1025	ALL	384700	3779700	2.46E-05	30YrCancel	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1026	ALL	384800	3779700	2.51E-05	30YrCancel	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1027	ALL	384900	3779700	2.57E-05	30YrCancel	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1028	ALL	385000	3779700	2.64E-05	30YrCancel	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1029	ALL	385100	3779700	2.72E-05	30YrCancel	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1030	ALL	385200	3779700	2.83E-05	30YrCancel	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1031	ALL	385300	3779700	2.97E-05	30YrCancel	2.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1032	ALL	385400	3779700	3.16E-05	30YrCancel	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1033	ALL	385500	3779700	3.42E-05	30YrCancel	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1034	ALL	385600	3779700	3.80E-05	30YrCancel	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1035	ALL	385700	3779700	4.38E-05	30YrCancel	4.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1036	ALL	385800	3779700	5.39E-05	30YrCancel	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1037	ALL	385900	3779700	7.55E-05	30YrCancel	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1038	ALL	386000	3779700	1.15E-04	30YrCancel	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1039	ALL	386100	3779700	1.41E-04	30YrCancel	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1040	ALL	382500	3779800	4.62E-05	30YrCancel	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1041	ALL	382600	3779800	4.16E-05	30YrCancel	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1042	ALL	382700	3779800	3.80E-05	30YrCancel	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1043	ALL	382800	3779800	3.51E-05	30YrCancel	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1044	ALL	382900	3779800	3.29E-05	30YrCancel	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1045	ALL	383000	3779800	3.11E-05	30YrCancel	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1046	ALL	383100	3779800	2.96E-05	30YrCancel	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1047	ALL	383200	3779800	2.84E-05	30YrCancel	2.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1048	ALL	383300	3779800	2.74E-05	30YrCancel	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1049	ALL	383400	3779800	2.68E-05	30YrCancel	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1050	ALL	383500	3779800	2.63E-05	30YrCancel	2.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1051	ALL	383600	3779800	2.60E-05	30YrCancel	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1052	ALL	383700	3779800	2.59E-05	30YrCancel	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1053	ALL	383800	3779800	2.59E-05	30YrCancel	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1054	ALL	383900	3779800	2.60E-05	30YrCancel	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1055	ALL	384000	3779800	2.62E-05	30YrCancel	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1056	ALL	384100	3779800	2.64E-05	30YrCancel	2.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1057	ALL	384200	3779800	2.66E-05	30YrCancel	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1058	ALL	384300	3779800	2.68E-05	30YrCancel	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1059	ALL	384400	3779800	2.70E-05	30YrCancel	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1060	ALL	384500	3779800	2.74E-05	30YrCancel	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1061	ALL	384600	3779800	2.77E-05	30YrCancel	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1062	ALL	384700	3779800	2.82E-05	30YrCancel	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1063	ALL	384800	3779800	2.87E-05	30YrCancel	2.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1064	ALL	384900	3779800	2.93E-05	30YrCancel	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1065	ALL	385000	3779800	3.00E-05	30YrCancel	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1066	ALL	385100	3779800	3.09E-05	30YrCancel	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1067	ALL	385200	3779800	3.20E-05	30YrCancel	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1068	ALL	385300	3779800	3.37E-05	30YrCancel	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1069	ALL	385400	3779800	3.61E-05	30YrCancel	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1070	ALL	385500	3779800	3.97E-05	30YrCancel	3.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1071	ALL	385600	3779800	4.54E-05	30YrCancel	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1072	ALL	385700	3779800	5.53E-05	30YrCancel	5.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1073	ALL	385800	3779800	7.81E-05	30YrCancel	7.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1074	ALL	385900	3779800	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1075	ALL	382500	3779900	9.84E-05	30YrCancel	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1076	ALL	382600	3779900	7.44E-05	30YrCancel	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1077	ALL	382700	3779900	6.11E-05	30YrCancel	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1078	ALL	382800	3779900	5.24E-05	30YrCancel	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1079	ALL	382900	3779900	4.64E-05	30YrCancel	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1080	ALL	383000	3779900	4.20E-05	30YrCancel	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1081	ALL	383100	3779900	3.86E-05	30YrCancel	3.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1082	ALL	383200	3779900	3.61E-05	30YrCancel	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1083	ALL	383300	3779900	3.42E-05	30YrCancel	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1084	ALL	383400	3779900	3.28E-05	30YrCancel	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1085	ALL	383500	3779900	3.19E-05	30YrCancel	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1086	ALL	383600	3779900	3.15E-05	30YrCancel	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1087	ALL	383700	3779900	3.13E-05	30YrCancel	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1088	ALL	383800	3779900	3.13E-05	30YrCancel	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1089	ALL	383900	3779900	3.14E-05	30YrCancel	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1090	ALL	384000	3779900	3.16E-05	30YrCancel	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1091	ALL	384100	3779900	3.18E-05	30YrCancel	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1092	ALL	384200	3779900	3.20E-05	30YrCancel	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1093	ALL	384300	3779900	3.22E-05	30YrCancel	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1094	ALL	384400	3779900	3.26E-05	30YrCancel	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1095	ALL	384500	3779900	3.29E-05	30YrCancel	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1096	ALL	384600	3779900	3.33E-05	30YrCancel	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1097	ALL	384700	3779900	3.37E-05	30YrCancel	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1098	ALL	384800	3779900	3.43E-05	30YrCancel	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1099	ALL	384900	3779900	3.49E-05	30YrCancel	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1100	ALL	385000	3779900	3.56E-05	30YrCancel	3.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1101	ALL	385100	3779900	3.65E-05	30YrCancel	3.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1102	ALL	385200	3779900	3.80E-05	30YrCancel	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1103	ALL	385300	3779900	4.01E-05	30YrCancel	4.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1104	ALL	385400	3779900	4.35E-05	30YrCancel	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1105	ALL	385500	3779900	4.91E-05	30YrCancel	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1106	ALL	385600	3779900	5.93E-05	30YrCancel	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1107	ALL	385700	3779900	8.36E-05	30YrCancel	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1108	ALL	385800	3779900	1.13E-04	30YrCancel	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1109	ALL	385900	3779900	1.21E-04	30YrCancel	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1110	ALL	382400	3780000	9.81E-05	30YrCancel	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1111	ALL	382500	3780000	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1112	ALL	382600	3780000	9.84E-05	30YrCancel	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1113	ALL	382700	3780000	9.30E-05	30YrCancel	9.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1114	ALL	382800	3780000	1.16E-04	30YrCancel	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1115	ALL	382900	3780000	9.39E-05	30YrCancel	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1116	ALL	383000	3780000	7.28E-05	30YrCancel	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1117	ALL	383100	3780000	6.06E-05	30YrCancel	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1118	ALL	383200	3780000	5.28E-05	30YrCancel	5.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1119	ALL	383300	3780000	4.77E-05	30YrCancel	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1120	ALL	383400	3780000	4.42E-05	30YrCancel	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1121	ALL	383500	3780000	4.23E-05	30YrCancel	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1122	ALL	383600	3780000	4.14E-05	30YrCancel	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1123	ALL	383700	3780000	4.11E-05	30YrCancel	4.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1124	ALL	383800	3780000	4.12E-05	30YrCancel	4.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1125	ALL	383900	3780000	4.14E-05	30YrCancel	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1126	ALL	384000	3780000	4.16E-05	30YrCancel	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1127	ALL	384100	3780000	4.18E-05	30YrCancel	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1128	ALL	384200	3780000	4.21E-05	30YrCancel	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1129	ALL	384300	3780000	4.23E-05	30YrCancel	4.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1130	ALL	384400	3780000	4.27E-05	30YrCancel	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1131	ALL	384500	3780000	4.31E-05	30YrCancel	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1132	ALL	384600	3780000	4.36E-05	30YrCancel	4.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1133	ALL	384700	3780000	4.41E-05	30YrCancel	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1134	ALL	384800	3780000	4.47E-05	30YrCancel	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1135	ALL	384900	3780000	4.54E-05	30YrCancel	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1136	ALL	385000	3780000	4.62E-05	30YrCancel	4.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1137	ALL	385100	3780000	4.73E-05	30YrCancel	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1138	ALL	385200	3780000	4.91E-05	30YrCancel	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1139	ALL	385300	3780000	5.24E-05	30YrCancel	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1140	ALL	385400	3780000	5.88E-05	30YrCancel	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1141	ALL	385500	3780000	7.13E-05	30YrCancel	7.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1142	ALL	385600	3780000	1.03E-04	30YrCancel	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1143	ALL	385700	3780000	1.05E-04	30YrCancel	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1144	ALL	382800	3780100	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1145	ALL	382900	3780100	1.15E-04	30YrCancel	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1146	ALL	383000	3780100	9.57E-05	30YrCancel	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1147	ALL	383100	3780100	1.12E-04	30YrCancel	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1148	ALL	383200	3780100	1.13E-04	30YrCancel	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1149	ALL	383300	3780100	9.56E-05	30YrCancel	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1150	ALL	383400	3780100	7.75E-05	30YrCancel	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1151	ALL	383500	3780100	7.01E-05	30YrCancel	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1152	ALL	383600	3780100	6.75E-05	30YrCancel	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1153	ALL	383700	3780100	6.71E-05	30YrCancel	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1154	ALL	383800	3780100	6.75E-05	30YrCancel	6.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1155	ALL	383900	3780100	6.80E-05	30YrCancel	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1156	ALL	384000	3780100	6.86E-05	30YrCancel	6.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1157	ALL	384100	3780100	6.89E-05	30YrCancel	6.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1158	ALL	384200	3780100	6.92E-05	30YrCancel	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1159	ALL	384300	3780100	6.97E-05	30YrCancel	6.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1160	ALL	384400	3780100	7.03E-05	30YrCancel	7.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1161	ALL	384500	3780100	7.11E-05	30YrCancel	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1162	ALL	384600	3780100	7.21E-05	30YrCancel	7.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1163	ALL	384700	3780100	7.30E-05	30YrCancel	7.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1164	ALL	384800	3780100	7.42E-05	30YrCancel	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1165	ALL	384900	3780100	7.55E-05	30YrCancel	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1166	ALL	385000	3780100	7.68E-05	30YrCancel	7.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1167	ALL	385100	3780100	7.87E-05	30YrCancel	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1168	ALL	385200	3780100	8.13E-05	30YrCancel	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1169	ALL	385300	3780100	9.00E-05	30YrCancel	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1170	ALL	385400	3780100	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1171	ALL	385500	3780100	1.43E-04	30YrCancel	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1172	ALL	385600	3780100	1.19E-04	30YrCancel	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1173	ALL	383200	3780200	1.08E-04	30YrCancel	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1174	ALL	383300	3780200	1.13E-04	30YrCancel	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1175	ALL	383400	3780200	9.95E-05	30YrCancel	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1176	ALL	383500	3780200	9.10E-05	30YrCancel	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1177	ALL	383600	3780200	1.01E-04	30YrCancel	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1178	ALL	383700	3780200	9.83E-05	30YrCancel	9.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1179	ALL	383800	3780200	9.77E-05	30YrCancel	9.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1180	ALL	383900	3780200	1.00E-04	30YrCancel	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1181	ALL	384000	3780200	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1182	ALL	384100	3780200	9.20E-05	30YrCancel	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1183	ALL	384200	3780200	1.03E-04	30YrCancel	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1184	ALL	384300	3780200	9.96E-05	30YrCancel	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1185	ALL	384400	3780200	9.93E-05	30YrCancel	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1186	ALL	384500	3780200	1.02E-04	30YrCancel	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1187	ALL	384600	3780200	1.07E-04	30YrCancel	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1188	ALL	384700	3780200	9.23E-05	30YrCancel	9.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1189	ALL	384800	3780200	1.03E-04	30YrCancel	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1190	ALL	384900	3780200	1.00E-04	30YrCancel	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1191	ALL	385000	3780200	9.95E-05	30YrCancel	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1192	ALL	385100	3780200	1.02E-04	30YrCancel	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1193	ALL	385200	3780200	1.25E-04	30YrCancel	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1194	ALL	385300	3780200	1.19E-04	30YrCancel	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1195	ALL	385400	3780200	1.32E-04	30YrCancel	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1196	ALL	384100	3780300	7.06E-05	30YrCancel	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1197	ALL	384200	3780300	7.07E-05	30YrCancel	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1198	ALL	384300	3780300	7.08E-05	30YrCancel	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1199	ALL	384400	3780300	7.07E-05	30YrCancel	7.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1200	ALL	384500	3780300	7.06E-05	30YrCancel	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1201	ALL	384100	3780400	4.26E-05	30YrCancel	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1202	ALL	384200	3780400	4.27E-05	30YrCancel	4.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1203	ALL	384300	3780400	4.29E-05	30YrCancel	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1204	ALL	384400	3780400	4.30E-05	30YrCancel	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1205	ALL	384500	3780400	4.29E-05	30YrCancel	4.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1206	ALL	384100	3780500	3.17E-05	30YrCancel	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1207	ALL	384200	3780500	3.18E-05	30YrCancel	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1208	ALL	384300	3780500	3.20E-05	30YrCancel	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1209	ALL	384400	3780500	3.21E-05	30YrCancel	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1210	ALL	386718.6	3779024	8.10E-05	30YrCancel	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1211	ALL	386721.6	3778964	7.59E-05	30YrCancel	7.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1212	ALL	386714.5	3778693	7.50E-05	30YrCancel	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1213	ALL	386710	3778454	1.02E-04	30YrCancel	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1214	ALL	386705.4	3778251	1.11E-04	30YrCancel	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1215	ALL	386683.7	3778253	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1216	ALL	386681.4	3778147	9.23E-05	30YrCancel	9.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1217	ALL	386800.8	3778145	5.47E-05	30YrCancel	5.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1218	ALL	386785.6	3777866	3.80E-05	30YrCancel	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1219	ALL	386712.4	3777868	7.42E-05	30YrCancel	7.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1220	ALL	386259.1	3777880	2.81E-05	30YrCancel	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1221	ALL	386254.2	3777752	2.80E-05	30YrCancel	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1222	ALL	386012.7	3777757	2.18E-05	30YrCancel	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1223	ALL	385996.8	3777645	1.66E-05	30YrCancel	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1224	ALL	385989	3777567	1.56E-05	30YrCancel	1.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1225	ALL	385997.6	3777436	1.49E-05	30YrCancel	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1226	ALL	386017.2	3777293	1.44E-05	30YrCancel	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1227	ALL	386034.2	3777116	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1228	ALL	386097.1	3776994	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1229	ALL	386100	3776935	1.47E-05	30YrCancel	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1230	ALL	386083.9	3776888	1.77E-05	30YrCancel	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1231	ALL	385999.9	3776875	1.68E-05	30YrCancel	1.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1232	ALL	385883.2	3776858	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1233	ALL	385726	3776833	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1234	ALL	385517.1	3776805	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1235	ALL	385433	3776791	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1236	ALL	385316.4	3776769	1.46E-05	30YrCancel	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1237	ALL	385153.7	3776744	1.48E-05	30YrCancel	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1238	ALL	384931.3	3776713	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1239	ALL	384874.3	3776713	1.33E-05	30YrCancel	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1240	ALL	384730.6	3776682	1.31E-05	30YrCancel	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1241	ALL	384529.9	3776654	1.21E-05	30YrCancel	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1242	ALL	384459.4	3776651	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1243	ALL	384440.3	3776657	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1244	ALL	384426.8	3776649	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1245	ALL	384389.2	3776543	1.18E-05	30YrCancel	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1246	ALL	384615.5	3776269	1.37E-05	30YrCancel	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1247	ALL	384328.8	3776035	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1248	ALL	384208.9	3776156	1.13E-05	30YrCancel	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1249	ALL	384080.8	3776297	1.05E-05	30YrCancel	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1250	ALL	383977.2	3776424	9.95E-06	30YrCancel	9.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1251	ALL	383859.9	3776576	9.35E-06	30YrCancel	9.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1252	ALL	383731.5	3776781	9.09E-06	30YrCancel	9.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1253	ALL	383630.5	3776955	8.51E-06	30YrCancel	8.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1254	ALL	383540.2	3777139	8.57E-06	30YrCancel	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1255	ALL	383394.9	3777497	8.37E-06	30YrCancel	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1256	ALL	383085.3	3778242	9.00E-06	30YrCancel	9.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1257	ALL	382814.1	3778887	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1258	ALL	382542.8	3779550	2.26E-05	30YrCancel	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1259	ALL	382408.5	3779881	1.05E-04	30YrCancel	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1260	ALL	382403	3779913	1.03E-04	30YrCancel	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1261	ALL	382353.8	3780000	8.62E-05	30YrCancel	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1262	ALL	382513.7	3780055	7.65E-05	30YrCancel	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1263	ALL	382557	3780069	7.49E-05	30YrCancel	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1264	ALL	382575.9	3780091	6.59E-05	30YrCancel	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1265	ALL	382703.4	3780099	8.08E-05	30YrCancel	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1266	ALL	382950.2	3780149	9.37E-05	30YrCancel	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1267	ALL	383023.4	3780166	9.61E-05	30YrCancel	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1268	ALL	383440.9	3780273	8.08E-05	30YrCancel	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1269	ALL	383495.1	3780281	7.85E-05	30YrCancel	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1270	ALL	383568.4	3780279	8.35E-05	30YrCancel	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1271	ALL	383628.1	3780279	8.46E-05	30YrCancel	8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1272	ALL	383742.1	3780272	9.19E-05	30YrCancel	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1273	ALL	383842.5	3780269	9.33E-05	30YrCancel	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1274	ALL	383907.6	3780278	8.52E-05	30YrCancel	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1275	ALL	384032.5	3780278	8.45E-05	30YrCancel	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1276	ALL	384037.2	3780463	3.47E-05	30YrCancel	3.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1277	ALL	384045.1	3780514	3.06E-05	30YrCancel	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1278	ALL	384058.5	3780547	2.83E-05	30YrCancel	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1279	ALL	384077.4	3780577	2.67E-05	30YrCancel	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1280	ALL	384215.9	3780569	2.73E-05	30YrCancel	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1281	ALL	384256.6	3780561	2.78E-05	30YrCancel	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1282	ALL	384313.6	3780545	2.89E-05	30YrCancel	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1283	ALL	384525.8	3780435	3.85E-05	30YrCancel	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1284	ALL	384526.4	3780275	8.69E-05	30YrCancel	8.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1285	ALL	384670.3	3780256	1.04E-04	30YrCancel	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1286	ALL	385177.8	3780247	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1287	ALL	385267.3	3780256	9.17E-05	30YrCancel	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1288	ALL	385327	3780259	8.20E-05	30YrCancel	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1289	ALL	385443.9	3780202	1.07E-04	30YrCancel	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1290	ALL	385525.5	3780165	1.21E-04	30YrCancel	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1291	ALL	385609.8	3780116	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1292	ALL	385691.4	3780073	1.19E-04	30YrCancel	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1293	ALL	385775.7	3780014	1.32E-04	30YrCancel	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1294	ALL	385898.3	3779906	1.33E-04	30YrCancel	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1295	ALL	386004.6	3779792	1.35E-04	30YrCancel	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1296	ALL	386162.5	3779662	1.33E-04	30YrCancel	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1297	ALL	386369.3	3779517	1.04E-04	30YrCancel	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1298	ALL	386410.1	3779498	9.68E-05	30YrCancel	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1299	ALL	386567.9	3779387	1.04E-04	30YrCancel	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1300	ALL	386684.8	3779347	9.25E-05	30YrCancel	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1301	ALL	386736.3	3779355	8.05E-05	30YrCancel	8.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1302	ALL	386763.4	3779361	7.40E-05	30YrCancel	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1303	ALL	386804.3	3779328	7.90E-05	30YrCancel	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1304	ALL	386766.5	3779266	1.19E-04	30YrCancel	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1305	ALL	386831.9	3779212	1.58E-04	30YrCancel	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1306	ALL	386780.7	3779106	1.34E-04	30YrCancel	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1307	ALL	386745.4	3779116	1.21E-04	30YrCancel	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1308	ALL	386734.6	3779100	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1309	ALL	386772.7	3779076	1.10E-04	30YrCancel	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1310	ALL	386737.7	3779008	8.31E-05	30YrCancel	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1311	ALL	386719.2	3778874	7.16E-05	30YrCancel	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1312	ALL	386716.9	3778783	7.18E-05	30YrCancel	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1313	ALL	386713	3778613	8.06E-05	30YrCancel	8.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314	ALL	386711.5	3778534	8.90E-05	30YrCancel	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1315	ALL	386708.5	3778386	1.19E-04	30YrCancel	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1316	ALL	386707	3778318	1.18E-04	30YrCancel	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1317	ALL	386682.6	3778200	9.62E-05	30YrCancel	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1318	ALL	386741.1	3778146	8.90E-05	30YrCancel	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1319	ALL	386795.8	3778052	3.62E-05	30YrCancel	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1320	ALL	386790.7	3777959	3.38E-05	30YrCancel	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1321	ALL	386621.7	3777870	1.10E-04	30YrCancel	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1322	ALL	386531.1	3777873	5.77E-05	30YrCancel	5.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1323	ALL	386440.4	3777875	4.13E-05	30YrCancel	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1324	ALL	386349.8	3777877	3.32E-05	30YrCancel	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1325	ALL	386256.7	3777816	2.80E-05	30YrCancel	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1326	ALL	386173.7	3777754	2.52E-05	30YrCancel	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1327	ALL	386093.2	3777755	2.31E-05	30YrCancel	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1328	ALL	386004.7	3777701	2.10E-05	30YrCancel	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1329	ALL	385993.3	3777501	1.53E-05	30YrCancel	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330	ALL	386007.4	3777364	1.48E-05	30YrCancel	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1331	ALL	386025.7	3777204	1.20E-05	30YrCancel	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1332	ALL	386065.6	3777055	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1333	ALL	385941.6	3776866	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1334	ALL	385804.6	3776845	1.65E-05	30YrCancel	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1335	ALL	385656.3	3776823	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1336	ALL	385586.7	3776814	1.14E-05	30YrCancel	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1337	ALL	385374.7	3776780	1.36E-05	30YrCancel	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1338	ALL	385235.1	3776756	1.52E-05	30YrCancel	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1339	ALL	385079.6	3776733	1.38E-05	30YrCancel	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1340	ALL	385005.4	3776723	1.23E-05	30YrCancel	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1341	ALL	384802.5	3776698	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1342	ALL	384663.7	3776673	1.29E-05	30YrCancel	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1343	ALL	384596.8	3776664	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1344	ALL	384408	3776596	1.17E-05	30YrCancel	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1345	ALL	384445.8	3776474	1.22E-05	30YrCancel	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1346	ALL	384502.4	3776406	1.27E-05	30YrCancel	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1347	ALL	384559	3776338	1.32E-05	30YrCancel	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1348	ALL	384543.9	3776211	1.34E-05	30YrCancel	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1349	ALL	384472.2	3776152	1.30E-05	30YrCancel	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1350	ALL	384400.5	3776093	1.25E-05	30YrCancel	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1351	ALL	384268.9	3776096	1.16E-05	30YrCancel	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1352	ALL	384144.9	3776227	1.10E-05	30YrCancel	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1353	ALL	384029	3776361	1.02E-05	30YrCancel	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1354	ALL	383918.6	3776500	9.63E-06	30YrCancel	9.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1355	ALL	383817.1	3776644	9.16E-06	30YrCancel	9.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1356	ALL	383774.3	3776713	9.05E-06	30YrCancel	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1357	ALL	383697.8	3776839	9.02E-06	30YrCancel	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1358	ALL	383664.2	3776897	8.91E-06	30YrCancel	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1359	ALL	383600.4	3777016	8.71E-06	30YrCancel	8.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1360	ALL	383570.3	3777078	8.64E-06	30YrCancel	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1361	ALL	383503.9	3777228	8.49E-06	30YrCancel	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1362	ALL	383467.5	3777318	8.43E-06	30YrCancel	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1363	ALL	383431.2	3777407	8.38E-06	30YrCancel	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1364	ALL	383360.5	3777579	8.37E-06	30YrCancel	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1365	ALL	383326.1	3777662	8.39E-06	30YrCancel	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1366	ALL	383291.7	3777745	8.42E-06	30YrCancel	8.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1367	ALL	383257.3	3777828	8.46E-06	30YrCancel	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1368	ALL	383222.9	3777911	8.52E-06	30YrCancel	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1369	ALL	383188.5	3777993	8.61E-06	30YrCancel	8.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1370	ALL	383154.1	3778076	8.72E-06	30YrCancel	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1371	ALL	383119.7	3778159	8.85E-06	30YrCancel	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1372	ALL	383046.6	3778334	9.19E-06	30YrCancel	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1373	ALL	383007.8	3778426	9.43E-06	30YrCancel	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1374	ALL	382969.1	3778518	9.69E-06	30YrCancel	9.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1375	ALL	382930.3	3778610	9.89E-06	30YrCancel	9.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1376	ALL	382891.6	3778702	1.04E-05	30YrCancel	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1377	ALL	382852.8	3778794	1.08E-05	30YrCancel	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1378	ALL	382780.2	3778969	1.19E-05	30YrCancel	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1379	ALL	382746.3	3779052	1.26E-05	30YrCancel	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1380	ALL	382712.4	3779135	1.35E-05	30YrCancel	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1381	ALL	382678.4	3779218	1.45E-05	30YrCancel	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1382	ALL	382644.5	3779301	1.58E-05	30YrCancel	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1383	ALL	382610.6	3779384	1.74E-05	30YrCancel	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1384	ALL	382576.7	3779467	1.96E-05	30YrCancel	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1385	ALL	382509.2	3779633	2.70E-05	30YrCancel	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1386	ALL	382475.7	3779716	3.42E-05	30YrCancel	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1387	ALL	382442.1	3779798	4.92E-05	30YrCancel	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1388	ALL	382433.7	3780028	8.07E-05	30YrCancel	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1389	ALL	382639.7	3780095	7.27E-05	30YrCancel	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1390	ALL	382785.7	3780116	8.50E-05	30YrCancel	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1391	ALL	382867.9	3780132	8.92E-05	30YrCancel	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1392	ALL	383106.9	3780187	9.57E-05	30YrCancel	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1393	ALL	383190.4	3780209	9.44E-05	30YrCancel	9.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1394	ALL	383273.9	3780230	9.17E-05	30YrCancel	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1395	ALL	383357.4	3780252	8.80E-05	30YrCancel	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1396	ALL	383685.1	3780275	8.85E-05	30YrCancel	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1397	ALL	383792.3	3780270	9.26E-05	30YrCancel	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1398	ALL	383970.1	3780278	8.47E-05	30YrCancel	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1399	ALL	384034.8	3780370	4.77E-05	30YrCancel	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1400	ALL	384146.6	3780573	2.70E-05	30YrCancel	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1401	ALL	384384.3	3780508	3.15E-05	30YrCancel	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1402	ALL	384455	3780472	3.45E-05	30YrCancel	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1403	ALL	384526.1	3780355	5.18E-05	30YrCancel	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1404	ALL	384598.3	3780265	9.47E-05	30YrCancel	9.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1405	ALL	384754.9	3780255	1.05E-04	30YrCancel	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1406	ALL	384839.5	3780253	1.05E-04	30YrCancel	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1407	ALL	384924	3780252	1.05E-04	30YrCancel	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1408	ALL	385008.6	3780250	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1409	ALL	385093.2	3780249	1.06E-04	30YrCancel	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1410	ALL	385385.5	3780231	9.40E-05	30YrCancel	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1411	ALL	385733.6	3780043	1.18E-04	30YrCancel	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1412	ALL	385837	3779960	1.35E-04	30YrCancel	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1413	ALL	385951.4	3779849	1.25E-04	30YrCancel	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1414	ALL	386057.2	3779749	1.27E-04	30YrCancel	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1415	ALL	386109.9	3779706	1.22E-04	30YrCancel	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1416	ALL	386231.4	3779614	1.17E-04	30YrCancel	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1417	ALL	386300.4	3779565	1.08E-04	30YrCancel	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1418	ALL	386489	3779443	9.64E-05	30YrCancel	9.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1419	ALL	386626.4	3779367	9.33E-05	30YrCancel	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1420	ALL	386806.3	3779159	1.31E-04	30YrCancel	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Appendix C

CITY OF GLENDALE MODEL LAND USE FORECASTS

LAND USE CATEGORY	2015 EXISTING	2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP
CITY OF GLENDALE					
SINGLE FAMILY (DU)	23,663	23,701	23,694	23,639	23,634
MULTI FAMILY (DU)	53,520	56,108	60,181	62,143	64,124
SENIOR (DU)	2,673	2,734	2,535	2,535	2,535
OFFICE (KSF)	9,996	12,259	12,163	12,167	12,018
GOVOFF (KSF)	585	689	644	644	644
MEDOFF (KSF)	927	924	911	1,023	1,316
HOSPITAL (KSF)	2,297	4,183	4,183	4,183	4,183
AUTO DEALER (KSF)	649	664	1,457	1,457	1,457
AUTO SERVICES (KSF)	704	724	657	645	641
RETAIL (KSF)	6,921	6,697	6,982	6,976	7,150
RESTAURANT (KSF)	987	975	880	858	857
ENTERTAINMENT (KSF)	344	364	364	358	358
MALL (KSF)	1,203	1,203	1,203	1,203	1,203
CULTURAL (KSF)	283	283	277	276	276
LODGING (KSF)	1,028	1,642	1,633	1,408	1,865
RELIGIOUS (KSF)	1,371	1,429	1,429	1,383	1,379
INDUSTRIAL (KSF)	5,715	8,119	7,943	8,142	8,102
K8 (STUDENTS)	15,172	15,581	16,165	16,460	16,758
HIGH (STUDENTS)	5,403	5,478	5,584	5,638	5,692
COLLEGE (STUDENTS)	23,816	30,500	30,500	30,500	30,500
PARKS & REC (ACRE)	340	340	340	340	340
CEMETERY (ACRE)	300	300	300	300	300
DWELLING UNITS	**79,856**	**82,543**	**86,410**	**88,317**	**90,293**
NON-RESIDENTIAL KSF	**33,010**	**40,155**	**40,728**	**40,724**	**41,451**

CITY OF GLENDALE

LAND USE CATEGORY	2015 EXISTING
SOUTH GLEN	
SINGLE FAMILY (DU)	2,625
MULTI FAMILY (DU)	33,326
SENIOR (DU)	1,952
OFFICE (KSF)	6,738
GOVOFF (KSF)	530
MEDOFF (KSF)	515
HOSPITAL (KSF)	434
AUTO DEALER (KSF)	598
AUTO SERVICES (KSF)	449
RETAIL (KSF)	4,323
RESTAURANT (KSF)	645
ENTERTAINMENT (KSF)	227
MALL (KSF)	1,203
CULTURAL (KSF)	230
LODGING (KSF)	977
RELIGIOUS (KSF)	774
INDUSTRIAL (KSF)	2,600
K8 (STUDENTS)	6,031
HIGH (STUDENTS)	2,660
COLLEGE (STUDENTS)	4,100
PARKS & REC (ACRE)	23
CEMETERY (ACRE)	300
DWELLING UNITS	**37,903**
NON-RESIDENTIAL KSF	**20,243.992**

Employment Density Study Table 4B	**Land Use Cate**
	Regional Reta
	Other Retail/S
Averaged as "Office"	Low-Rise Offic
	High-Rise Offi
	Hotel/Motel
Averaged as "Industrial"	R&D/Flex Spa
	Light Manufa
	Heavy Manufa
	Warehouse
	Government (

E MODEL LAND USE FORECASTS

2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP	Project Delta from Baseline	SCAG LU Cat	2015 Employees	SGCP 2040 Employees	No Project 2040 Employees	SGCP Employees Delta from Baseline	
IDALE COMMUNITY PLAN										
2,616	2,609	2,554	2,549	-76						
35,873	39,946	41,908	43,889	10,563						
2,001	1,802	1,802	1,802	-150						
6,741	6,646	6,650	6,500	-237	Office	22,310	21,524	22,323	(786)	
634	590	590	590	60	Government Offices	732	815	876	82	
523	511	623	916	401	Office	1,705	3,034	1,733	1,329	
2,321	2,321	2,321	2,321	1,886	Office	1,438	7,685	7,685	6,246	
613	1,406	1,406	1,406	808	Other Retail/Service	1,170	2,751	1,200	1,581	
474	406	394	391	-58	Other Retail/Service	879	765	927	(114)	
4,084	4,369	4,363	4,537	214	Other Retail/Service	8,460	8,878	7,991	418	
635	540	518	517	-128	Other Retail/Service	1,263	1,012	1,243	(251)	
247	247	241	241	15	Other Retail/Service	443	472	484	29	
1,203	1,203	1,203	1,203	0	Regional Retail	494	494	494	-	
230	224	223	223	-7	Other Retail/Service	451	437	451	(14)	
1,558	1,550	1,325	1,782	804	Hotel/Motel	3,280	5,978	5,228	2,698	
833	833	786	783	8	Office	1,515	1,532	1,630	16	
2,617	2,441	2,641	2,600	0	Industrial	2,372	2,372	2,387	0	
6,427	7,011	7,306	7,604	1,573						
2,732	2,838	2,892	2,946	286						
10,300	10,300	10,300	10,300	6,200						
23	23	23	23	0						
300	300	300	300	0						
40,490	**44,357**	**46,264**	**48,240**	**10,337**						
22,714	**23,287**	**23,283**	**24,009**	**3,765**		46,511	57,747	54,651	11,236	Totals
							3,096	8,140	18%	
							5.7%	17.5%		

2040 SGCP Employees

egory	Sqft/Employee		
il		2,437	9774
Service		511	25.41%
ce	299	302	
ce	305		
		298	
ce	1862	1096	
cturing	749		
acturing	602		
	1172		
Offices		724	

CITY OF GLENDALE MODEL LAND USE FORECASTS

CalEEMod Inputs

CalEEmod (Land Use) Translation	LAND USE CATEGORY	2015 EXISTING	2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP	Project Delta from Baseline	Amoritize Construction by LU	Annual Growth Rate by LU	Annual Growth Rate + .5% by LU	Annnual Increase by LU (Excelerated GR)
	SOUTH GLENDALE COMMUNITY PLAN										
N/A	SINGLE FAMILY (DU)	2,625	2,616	2,609	2,554	2,549	-76	**-3.3**	-0.12%	**-0.1%**	-3
Res: Apt Mid-Rise	MULTI FAMILY (DU)	33,326	35,873	39,946	41,908	43,889	10,563	**459.3**	1.15%	**2.02%**	673
N/A	SENIOR (DU)	1,952	2,001	1,802	1,802	1,802	-150	**-6.5**	-0.33%	**-1%**	-11
N/A	OFFICE (KSF)	6,738	6,741	6,646	6,650	6,500	-237	**-10.3**	-0.15%	**0%**	-18
Com: Government Office Building	GOVOFF (KSF)	530	634	590	590	590	60	**2.6**	0.44%	**1%**	4
Com: Medical Office	MEDOFF (KSF)	515	523	511	623	916	401	**17.4**	2.43%	**4%**	22
Com: Hospital	HOSPITAL (KSF)	434	2,321	2,321	2,321	2,321	1,886	**82.0**	7.23%	**13%**	55
Automobile Care Center	AUTO DEALER (KSF)	598	613	1,406	1,406	1,406	808	**35.1**	3.63%	**6%**	38
N/A	AUTO SERVICES (KSF)	449	474	406	394	391	-58	**-2.5**	-0.58%	**-1%**	25
Retail: Free Standing Discount Store	RETAIL (KSF)	4,323	4,084	4,369	4,363	4,537	214	**9.3**	0.20%	**0%**	15
N/A	RESTAURANT (KSF)	645	635	540	518	517	-128	**-5.6**	-0.92%	**-2%**	-10
Rec: Movie Theater	ENTERTAINMENT (KSF)	227	247	247	241	241	15	**0.6**	0.26%	**0%**	1
N/A	MALL (KSF)	1,203	1,203	1,203	1,203	1,203	0	**0.0**	0.00%	**0%**	0
N/A	CULTURAL (KSF)	230	230	224	223	223	-7	**-0.3**	-0.13%	**0%**	-1
	LODGING (KSF)	977	1,558	1,550	1,325	1,782	804	**35.0**	2.53%	**4%**	43
ED: Place of Worship	RELIGIOUS (KSF)	774	833	833	786	783	8	**0.4**	0.04%	**0%**	1
N/A	INDUSTRIAL (KSF)	2,600	2,617	2,441	2,641	2,600	0	**0.0**	0.00%	**0%**	0
ED:Elementary School	K8 (STUDENTS)	6,031	6,427	7,011	7,306	7,604	1,573	**68.4**	0.97%	**2%**	102
ED: High School	HIGH (STUDENTS)	2,660	2,732	2,838	2,892	2,946	286	**12.4**	0.43%	**1%**	20
ED: College	COLLEGE (STUDENTS)	4,100	10,300	10,300	10,300	10,300	6,200	**269.6**	3.91%	**7%**	281
	PARKS & REC (ACRE)	23	23	23	23	23	0	**0.0**	0.00%	**0.0%**	0
	CEMETERY (ACRE)	300	300	300	300	300	0	**0.0**	0.00%	**0.0%**	0
	DWELLING UNITS	**37,903**	**40,490**	**44,357**	**46,264**	**48,240**	**10,337**				
	NON-RESIDENTIAL KSF	**20,243.992**	**22,714**	**23,287**	**23,283**	**24,009**	**3,765**				

	2015 EXISTING	2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP	Percent Increase
Dwelling Units (DU)	37,903	40,490	44,357	46,264	48,240	27%
Non-residential (KSF)	20,244	22,714	23,287	23,283	24,009	19%
K-12 (Students)	8,691	9,159	9,849	10,198	10,550	21%
College (Students)	4,100	10,300	10,300	10,300	10,300	151%
Parks (Acres)	23	23	23	23	23	

Annual Growth Rate by LU	Annual Growth Rate by LU (Excelerated)
1.01%	**2%**
0.71%	**1%**
0.81%	**1%**
3.91%	**7%**
0.00%	**0%**
Average	
1.3%	2.3%

Project Build-Out Ye	Annual Growth Rate Increase
23	0.87%

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2040 SGCP
SINGLE FAMILY (DU)	2,625	2,622	2,619	2,615	2,612	2,609	2,606	2,602	2,599	2,596	2,593	2,590	2,586	2,583	2,580	2,577	2,574	2,570	2,567	2,564	2,561	2,558	2,555	2,551	2,549
MULTI FAMILY (DU)	33,326	33,999	34,686	35,386	36,101	36,830	37,574	38,333	39,107	39,897	40,703	41,525	42,364	43,220	44,092	44,983	45,892	46,818	47,764	48,729	49,713	50,717	51,741	52,787	43,889
SENIOR (DU)	1,952	1,941	1,929	1,918	1,907	1,896	1,885	1,874	1,863	1,852	1,841	1,831	1,820	1,809	1,799	1,788	1,778	1,768	1,757	1,747	1,737	1,727	1,717	1,707	1,802
OFFICE (KSF)	6,738	6,720	6,702	6,685	6,667	6,650	6,633	6,615	6,598	6,581	6,564	6,546	6,529	6,512	6,495	6,478	6,461	6,444	6,428	6,411	6,394	6,377	6,361	6,344	6,500
GOVOFF (KSF)	530	534	538	543	547	551	555	560	564	569	573	577	582	586	591	596	600	605	610	614	619	624	629	634	590
MEDOFF (KSF)	515	537	560	583	608	634	661	689	719	749	781	814	849	885	923	962	1,003	1,045	1,090	1,136	1,185	1,235	1,287	1,342	916
HOSPITAL (KSF)	434	489	551	621	700	788	888	1,000	1,127	1,270	1,431	1,612	1,816	2,046	2,305	2,596	2,925	3,296	3,713	4,183	4,712	5,309	5,981	6,738	2,321
AUTO DEALER (KSF)	598	636	676	719	765	813	865	920	978	1,040	1,107	1,177	1,252	1,331	1,415	1,505	1,601	1,703	1,811	1,926	2,048	2,178	2,316	2,463	1,406
AUTO SERVICES (KSF)	449	445	440	436	431	427	423	418	414	410	406	402	398	394	390	386	382	378	374	370	367	363	359	356	391
RETAIL (KSF)	4,323	4,338	4,353	4,369	4,384	4,400	4,415	4,431	4,446	4,462	4,478	4,493	4,509	4,525	4,541	4,557	4,573	4,589	4,605	4,622	4,638	4,654	4,671	4,687	4,537
RESTAURANT (KSF)	645	635	625	615	605	595	586	576	567	558	549	540	531	523	514	506	498	490	482	474	467	459	452	445	517
ENTERTAINMENT (KSF)	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	243	244	245	246	247	248	249	250	252	241
MALL (KSF)	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
CULTURAL (KSF)	230	230	229	229	228	228	227	227	226	226	225	225	224	224	223	223	222	222	221	220	220	219	219	218	223
LODGING (KSF)	977	1,021	1,066	1,113	1,163	1,214	1,268	1,324	1,383	1,444	1,508	1,575	1,645	1,718	1,794	1,874	1,957	2,044	2,134	2,229	2,328	2,431	2,539	2,651	1,782
RELIGIOUS (KSF)	774	775	776	776	777	777	778	779	779	780	780	781	782	782	783	783	784	785	785	786	787	787	788	788	783
INDUSTRIAL (KSF)	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
K8 (STUDENTS)	6,031	6,133	6,238	6,344	6,451	6,561	6,672	6,786	6,901	7,018	7,137	7,259	7,382	7,507	7,635	7,765	7,896	8,031	8,167	8,306	8,447	8,590	8,736	8,885	7,604
HIGH (STUDENTS)	2,660	2,680	2,700	2,720	2,740	2,761	2,781	2,802	2,823	2,844	2,865	2,887	2,908	2,930	2,952	2,974	2,996	3,018	3,041	3,064	3,087	3,110	3,133	3,156	2,946
COLLEGE (STUDENTS)	4,100	4,381	4,681	5,002	5,344	5,710	6,101	6,519	6,966	7,443	7,953	8,497	9,079	9,701	10,366	11,076	11,834	12,645	13,511	14,436	15,425	16,482	17,611	18,817	10,300
PARKS & REC (ACRE)	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
CEMETERY (ACRE)	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2040 SGCP
Dwelling Units (DU)	37,903	38,562	39,234	39,920	40,620	41,335	42,065	42,809	43,569	44,345	45,137	45,945	46,770	47,612	48,471	49,348	50,243	51,156	52,089	53,040	54,011	55,002	56,013	57,045	48,240
Non-residential (KSF)	20,244	20,390	20,549	20,721	20,909	21,113	21,335	21,576	21,840	22,127	22,441	22,784	23,159	23,569	24,019	24,512	25,053	25,648	26,302	27,022	27,815	28,689	29,655	30,722	24,009
K-12 (Students)	8,691	8,813	8,937	9,064	9,192	9,322	9,454	9,588	9,724	9,862	10,003	10,145	10,290	10,437	10,587	10,738	10,893	11,049	11,208	11,369	11,533	11,700	11,869	12,041	10,550
College (Students)	4,100	4,381	4,681	5,002	5,344	5,710	6,101	6,519	6,966	7,443	7,953	8,497	9,079	9,701	10,366	11,076	11,834	12,645	13,511	14,436	15,425	16,482	17,611	18,817	10,300
Parks (Acres)	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

CITY OF GLENDALE MODEL LAND USE FORECASTS **2040 SGCP Employees**

Notes	CalEEmod (Land Use) Translation	LAND USE CATEGORY	2015 EXISTING	2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP	Project Delta from Baseline	SCAG LU Cat	2015 Employees	SGCP 2040 Employees	No Project 2040 Employees	SGCP Employees Delta from Baseline
		SOUTH GLENDALE COMMUNITY PLAN											
		SINGLE FAMILY (DU)	2,625	2,616	2,609	2,554	2,549	-76					
	Res: Apt Mid-Rise	MULTI FAMILY (DU)	33,326	35,873	39,946	41,908	43,889	10,563					
		SENIOR (DU)	1,952	2,001	1,802	1,802	1,802	-150					
		OFFICE (KSF)	6,738	6,741	6,646	6,650	6,500	-237	Office	22,310	21,524	22,323	(786)
	Com: Government Office Building	GOVOFF (KSF)	530	634	590	590	590	60	Government Offices	732	815	876	82
	Com: Medical Office	MEDOFF (KSF)	515	523	511	623	916	401	Office	1,705	3,034	1,733	1,329
	Com: Hospital	HOSPITAL (KSF)	434	2,321	2,321	2,321	2,321	1,886	Office	1,438	7,685	7,685	6,246
	Indus: G Light Industry	AUTO DEALER (KSF)	598	613	1,406	1,406	1,406	808	Other Retail/Service	1,170	2,751	1,200	1,581
		AUTO SERVICES (KSF)	449	474	406	394	391	-58	Other Retail/Service	879	765	927	(114)
	Retail: Free Standing Discount Store	RETAIL (KSF)	4,323	4,084	4,369	4,363	4,537	214	Other Retail/Service	8,460	8,878	7,991	418
		RESTAURANT (KSF)	645	635	540	518	517	-128	Other Retail/Service	1,263	1,012	1,243	(251)
	Rec: Movie Theater	ENTERTAINMENT (KSF)	227	247	247	241	241	15	Other Retail/Service	443	472	484	29
		MALL (KSF)	1,203	1,203	1,203	1,203	1,203	0	Regional Retail	494	494	494	-
		CULTURAL (KSF)	230	230	224	223	223	-7	Other Retail/Service	451	437	451	(14)
	Hotel	LODGING (KSF)	977	1,558	1,550	1,325	1,782	804	Hotel/Motel	3,280	5,978	5,228	2,698
	ED: Place of Worship	RELIGIOUS (KSF)	774	833	833	786	783	8	Office	1,515	1,532	1,630	16
		INDUSTRIAL (KSF)	2,600	2,617	2,441	2,641	2,600	0	Industrial	2,372	2,372	2,387	0
	ED:Elementary School	K8 (STUDENTS)	6,031	6,427	7,011	7,306	7,604	1,573					
	ED: High School	HIGH (STUDENTS)	2,660	2,732	2,838	2,892	2,946	286					
	ED: College	COLLEGE (STUDENTS)	4,100	10,300	10,300	10,300	10,300	6,200					
		PARKS & REC (ACRE)	23	23	23	23	23	0					
		CEMETERY (ACRE)	300	300	300	300	300	0					
	TOTAL	**DWELLING UNITS**	**37,903**	**40,490**	**44,357**	**46,264**	**48,240**	**10,337**					
	TOTAL	**NON-RESIDENTIAL KSF**	**20,243.992**	**22,714**	**23,287**	**23,283**	**24,009**	**3,765**		46,511	57,747	54,651	11,236

City of Glendale Building Permits									
Year	City Total DU	Source	Total DU (Imputation)	Total DU (Reported)	Year over Year Change	Percent of Annual Average Buidling Growth Rate	Annual DU Growth Rate (2000-2016)	Annual Average DU Growth Rate (2000-2015)	Annual Increase in Building Permit Activity
							323.70588	0.4%	0.87%
2000	73,713	2000 Census	72	72		22%	0.1%		
2001	73,785		155	155	83	48%	0.2%		
2002	73,940		313	313	158	97%	0.4%		
2003	74,253		137	137	-176	42%	0.2%		
2004	74,390		77	77	-60	24%	0.1%		
2005	74,467		201	192	124	62%	0.3%		
2006	74,668		126	7	-75	39%	0.0%		
2007	74,794		126	0	0	39%	0.0%		
2008	74,920		249	202	123	77%	0.3%		
2009	75,169		114	49	-135	35%	0.1%		
2010	75,283		99	99	-15	31%	0.1%		
2011	75,382		239	239	140	74%	0.3%		
2012	75,621		404	404	165	125%	0.5%		
2013	74,822	ACS 2013 1 YR	1004	941	600	310%	1.3%		
2014	75,826		373	373	-631	115%	0.5%		
2015	78,270	ACS 2015 1 YR	698	698	325	216%	0.9%		
2016	78,968		1116	1116	418	345%	1.4%		

Source: U.S. Census Bureau Data, U.S. Factfinder

Survey Date	State Code	6-Digit ID	County Code	Place Code	MSA/ CMSA	PMSA Code	Central City	Zip Code	Region Code	Division Code	Number of Months Rep	Place Name	Bldgs	1-unit Units
200012	6	158000	37	1130	4472	4480		91206	4	9	12	Glendale	37	37
200112	6	158000	37	1130	4472	4480		91206	4	9	12	Glendale	56	56
200212	6	158000	37	1130	4472	4480		91206	4	9	12	Glendale	23	23
200312	6	158000	37	1130	4472	4480		91206	4	9	12	Glendale	15	15

Survey Date	State Code	6-Digit ID	County Code	Place Code	CSA CSA	CBSA Code	Central City	Zip Code	Region Code	Division Code	Number of Months Rep	Place Name	Bldgs	1-unit Units
200412	6	158000	37	1130	348	31100	1	91206	4	9	12	Glendale	2	2
200512	6	158000	37	1130	348	31100	1	91206	4	9	11	Glendale	28	28
200612	6	158000	37	1130	348	31100	1	91206	4	9	3	Glendale	23	23
200712	6	158000	37	1130	348	31100	1	91206	4	9	0	Glendale	15	15

Survey Date	State Code	6-Digit ID	County Code	Census Pla Code	FIPS Place Code	FIPS MCD Code	Pop	CSA Code	CBSA Code	Footnote Code	Central City	Zip Code	Region Code	Division Code	Number of Months Rep	Place Name	Bldgs	1-unit Units
200812	6	158000	37	1130	30000	91750	194973	348	31100		1	91206	4	9	10	Glendale	23	23
200912	6	158000	37	1130	30000	92785	194973	348	31100		1	91206	4	9	7	Glendale	13	13
201012	6	158000	37	1130	30000	92785	194973	348	31100		1	91206	4	9	12	Glendale	7	7
201112	6	158000	37	1130	30000	92785	194973	348	31100		1	91206	4	9	12	Glendale	11	11

Survey Date	State Code	6-Digit ID	County Code	Census Pla Code	FIPS Place Code	FIPS MCD Code	Pop	CSA Code	CBSA Code	Footnote Code	Central City	Zip Code	Region Code	Division Code	Number of Months Rep	Place Name	Bldgs	1-unit Units
201212	6	158000	37	2790	30000	0	194973	348	31100		1	91206	4	9	12	Glendale	10	10
201312	6	158000	37	2790	30000	0	191719	348	31100		1	91206	4	9	11	Glendale	11	11
201412	6	158000	37	2790	30000	0	191719	348	31080		1	91206	4	9	12	Glendale	17	17
201512	6	158000	37	2790	30000	0	191719	348	31080		1	91206	4	9	12	Glendale	9	9
201612	6	158000	37	2790	30000	0	191719	348	31080		1	91206	4	9	12	Glendale	9	9

Total Permits (2000-2016)	**1-unit**			**2-units**			**3-4 units**			**5+ units**			**1-unit rep**			**2-units rep**		
Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs
309	309		18	36		20	76		111	5082	6.37E+08	270	270	74414237	13	26	3929276	19

City of Glendale Total Permits (2000-2016)		
Building Permits	Bldgs	Units
1-unit	309	309
2-units	18	36
3-4 units	20	76
5+ units	111	5082
1-unit rep	270	270
2-units rep	13	26
3-4 units rep	19	73
5+ units rep	83	4705

Source: U.S. Census Bureau Building Permit; https://www.census.gov/construction/bps/

		2-units			3-4 units			5+ units			1-unit rep			2-units rep			3-4 units rep			5+ units rep		
Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs
6378909	1	2	180843	1	4	326147	3	29	2929013	37	37	6378909	1	2	180843	1	4	326147	3	29	2929013	37
11256271	0	0	0	2	8	671920	9	91	6155225	56	56	11256271	0	0	0	2	8	671920	9	91	6155225	56
6709780	2	4	366442	1	3	266029	5	283	34306267	23	23	6709780	2	4	366442	1	3	266029	5	283	34306267	23
4192038	0	0	0	0	0	0	8	122	12791291	15	15	4192038	0	0	0	0	0	0	8	122	12791291	15

		2-units			3-4 units			5+ units			1-unit rep			2-units rep			3-4 units rep			5+ units rep		
Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs
343922	1	2	191991	3	11	1010490	6	62	4825200	2	2	343922	1	2	191991	3	11	1010490	6	62	4825200	2
8934000	2	4	800000	2	8	2400000	9	161	29828250	26	26	8242000	2	4	800000	2	8	2400000	8	154	28710000	26
8527857	2	4	800000	0	0	0	8	99	18188485	7	7	3315000	0	0	0	0	0	0	0	0	0	7
5354824	3	6	1200000	1	3	900000	12	102	18801514	0	0	0	0	0	0	0	0	0	0	0	0	0

		2-units			3-4 units			5+ units			1-unit rep			2-units rep			3-4 units rep			5+ units rep		
Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs
6535000	0	0	0	1	4	750000	9	222	35984608	23	23	6535000	0	0	0	1	4	750000	7	175	31680000	23
4948087	0	0	0	2	7	1150000	5	94	13847771	8	8	3445000	0	0	0	2	7	1150000	1	34	8000000	8
1840000	3	6	550000	2	8	2120000	3	78	12111023	7	7	1840000	3	6	550000	2	8	2120000	3	78	12111023	7
3472022	1	2	370000	0	0	0	4	226	31298000	11	11	3472022	1	2	370000	0	0	0	4	226	31298000	11

		2-units			3-4 units			5+ units			1-unit rep			2-units rep			3-4 units rep			5+ units rep		
Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs	Units	Value	Bldgs
2325000	0	0	0	1	4	200500	3	390	62423429	10	10	2325000	0	0	0	1	4	200500	3	390	62423429	10
4478745	0	0	0	2	8	1886000	5	985	1.04E+08	10	10	4246245	0	0	0	2	8	1886000	4	923	93897745	10
5435000	1	2	375000	0	0	0	4	354	38270000	17	17	5435000	1	2	375000	0	0	0	4	354	38270000	17
2907000	1	2	330000	0	0	0	7	687	82213342	9	9	2907000	1	2	330000	0	0	0	7	687	82213342	9
3771050	1	2	765000	2	8	2600000	11	1097	1.29E+08	9	9	3771050	1	2	765000	2	8	2600000	11	1097	1.29E+08	9

3-4 units rep			5+ units rep		
Units	Value	Bldgs	Units	Value	
73	13381086	83	4705	5.79E+08	

CalEEmod (Land Use) Translation	LAND USE CATEGORY	2015 EXISTING	2040 NO PROJECT	2040 ALT 1	2040 ALT 2	2040 SGCP	Project Delta from Baseline	Number of Hotel Rooms SGCP	Amoritized for lifetime of the project
	LODGING (KSF)	977	1,558	1,550	1,325	1,782	804	1072	47

	Guest Room Area		Total Hotel
	Net	Gross	Gross
Conventional	240	480	750

Figure 21.3
Overall Hotel Program

	Guestroom Area (ft^2)		Total Hotel
	Net	Gross	Gross Area (ft^2)
Motel, economy hotel	300	380	420
All-Suite hotel	430	590	750
Urban Business hotel	340	480	650
Resort	390	540	780
Convention hotel	340	480	750

Note: Figures are floor area in square feet per guestroom. Guestroom net area is the usable area including bathroom and vestibule. Guestroom gross area includes walls, elevators, stairways, corridors, storage, and mechanical areas on the guestroom floors. Total hotel gross area is the entire hotel, excluding parking.

Source: deRoos, J. A. 2011, "Planning and Programming a Hotel" In M. C. Sturman, J. B. Corgel, & R. Verma (Eds.), The Cornell School of Hotel Administration on hospitality: Cutting edge thinking and practice(pp. 321-332). New York, NY: Wiley

CalEEMod Default

LU	Title 24 Elect (KWhr/size/yr)	Title 24 Natural Gas (KBTU/size/yr)
Apartments Mid Rise	304.35	6,778.04
Automobile Care Center	2.36	13.71
Elementary School	1.83	9.37
Free-Standing Discount Store	4.2	1.16
Government Office Building	4.82	10.07
High School	1.83	9.37
Hospital	10.44	55.22
Hotel	2.68	20.02
Medical Office Building	4.82	10.07
Movie Theater (No Matinee)	2.36	13.71
Place of Worship	2.36	13.71
University/College (4Yr)	3.18	26.63

CalEEMod Title 24 Adjustments for 2016 Building Code Update

LU	Title 24 Elect (KWhr/size/yr)	Title 24 Natural Gas (KBTU/size/yr)
Apartments Mid Rise	219	4880
Automobile Care Center	2.2	13.0
Elementary School	1.7	8.9
Free-Standing Discount Store	4.0	1.1
Government Office Building	4.6	9.6
High School	1.7	8.9
Hospital	9.9	52.5
Hotel	2.5	19.0
Medical Office Building	4.6	9.6
Movie Theater (No Matinee)	2.2	13.0
Place of Worship	2.2	13.0
University/College (4Yr)	3.0	25.3

Adjustment:

5% reduction for Non-Residential

28% reductiong for Residential

Proposed Project	2015	2020	2035	2040	Annual Growth Increase	Percent Increase
Dwelling Units (DU)	37,903	N/A	N/A	48,240	1.1%	27%
Non-residential (KSF)	20,244	N/A	N/A	24,009	0.7%	19%
K-12 (Students)	8,691	N/A	N/A	10,550	0.9%	21%
College (Students)	4,100	N/A	N/A	10,300	6.0%	151%
Parks (Acres)	23	N/A	N/A	23	0.0%	0%
Employment	46,511	N/A	N/A	54,651	0.7%	18%
Population	193,200	200,100	209,000	244,210	1.1%	26%

Source: Atkins 2017

Residential Density Assumptions (CalEEMod Assumptions)	
New Residents	30210
New DU	10563
Residents/DU	2.86

Proposed Project	2015	2040	Annual Growth Increase
Dwelling Units	37,903	48,240	1.1%
Population (Total Cit	193,200	243,564	1.0%
Employment	46,511	54,651	0.7%
SCAG RTP/SCS Regional Forecast	**2012**	**2040**	**Annual Growth Increase**
Households	5,885,000	7,412,000	0.9%
Population	7,440,000	9,872,000	1.2%
Employment	18,322,000	22,138,000	0.7%

Source: SCAG 2016-2040 RTP/SCS Final Growth Forecast by Jurisdiction
http://www.scag.ca.gov/Documents/2016_2040RTPSCS_FinalGrowthForecastbyJurisdiction.pdf

SGCP AVERAGE DAILY WEEKDAY VEHICLE MILES TRAVELED SUMMARY

Source: Fehr & Peers 2017

All Trip Types (II, IX, and XI)	Vehicle Miles Traveled	Vehicle Trips	Average Trip Length
2016 Existing	3,870,000	548,100	7.1 miles
2040 No Project	4,214,000	587,800	7.2 miles
2040 Alternative 1	4,323,000	606,100	7.1 miles
2040 Alternative 2	4,263,000	600,400	7.1 miles
2040 Preferred Project	4,410,000	619,500	7.1 miles
Project added VMT + Trips	540,000	71,400	

Construction Emissions			
Source	Year	MTCO2e	Annual Reduction (2018-2031)
CalEEMod 2018 Run	2018	1406	-0.4
	2019	1406	
	2020	1407	
	2021	1407	
	2022	1408	
	2023	1408	
	2024	1408	
	2025	1409	
	2026	1409	
	2027	1409	
	2028	1410	
	2029	1410	
	2030	1411	
CalEEMod 2031 Run	2031	1411	
	Subtotal	19,719	

	Total Construction Emissions
Demolition	546
Construction	19,719
Total	20,265
Amoritized Total (30 Yrs)	676

Demolition Emissions			
Source	Year	MTCO2e	MTCO2e per year change
CalEEMod 2018 Run	2018	37	0.31
	2019	37	
	2020	38	
	2021	38	
	2022	38	
	2023	39	
	2024	39	
	2025	39	
	2026	39	
	2027	40	
	2028	40	
	2029	40	
	2030	41	
CalEEMod 2031 Run	2031	41	
	Subtotal	546	

Construction Total **20,265**

CalEEMod VMT Calculator (MITIGATED SCENARIO)

This calcultor was created based on the default trip inputs for the unmitigated CalEEMod run. The calculator calculateds the annual VMT from the proposed project using the same methodology from CalEEMod, described in Appendix A, for the MITIGATED SCENARIO. This calculator can be used to adjust land use trip rates for the MITIGATED PROJECT scenario which is based on the traffic study conducted for the project

	Daily VMT	
Daily VMT Provided by Traffic Study	**540,000**	
Annual VMT	**3,509,039**	**462,298,140**

Trip Type

CalEEMod defaults based on land uses inputted

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-O	Primary	Diverted	Pass-by
Apartments Mid Rise	14.7	5.9	8.7	40%	19%	41%	86%	11%	3%
Automobile Care Center	16.6	8.4	6.9	33.0%	48.0%	19.0%	21%	51%	28%
Elementary School	16.6	8.4	6.9	65.0%	30.0%	5.0%	63%	25%	12%
Free-Standing Discount Store	16.6	8.4	6.9	12.2%	68.8%	19.0%	48%	36%	17%
Government Office Building	16.6	8.4	6.9	33.0%	62.0%	5.0%	50%	34%	16%
High School	16.6	8.4	6.9	77.8%	17.2%	5.0%	75%	19%	6%
Hospital	16.6	8.4	6.9	64.9%	16.1%	19.0%	73%	25%	2%
Hotel	16.6	8.4	6.9	19.4%	61.6%	19.0%	58%	38%	4%
Medical Office Building	16.6	8.4	6.9	29.6%	51.4%	19.0%	60%	30%	10%
Movie Theater (No Matinee)	16.6	8.4	6.9	1.8%	79.2%	19.0%	66%	17%	17%
Place of Worship	16.6	8.4	6.9	0.0%	95.0%	5.0%	64%	25%	11%
University/College (4Yr)	16.6	8.4	6.9	6.4%	88.6%	5.0%	91%	9%	0%

Total Trips

Total Trips = (TripRate weekday x 5 +Trip Sat + Trip Sun)

Average Daily Trips Based on CalEEMod Trip Gen Defaults per land use unit. Total trips Calculated

Land Use	Average Daily Trip Rate			
	weekday	Saturday	Sunday	Total Trips (weekly)
Apartments Mid Rise	70,243.95	67,497.57	61899.18	480,617
Automobile Care Center	19,165.76	19,165.76	9599.04	124,594
Elementary School	2,029.17	0	0	10,146
Free-Standing Discount Store	12,249.36	15,208.98	12061.04	88,517
Government Office Building	4,135.80	0	0	20,679
High School	489.06	174.46	71.5	2,691
Hospital	24,932.92	19,199.48	16804.26	160,668
Hotel	8,758.24	8,779.68	6378.4	58,949
Medical Office Building	14,488.13	3,592.96	621.55	76,655
Movie Theater (No Matinee)	1,170.90	1,489.20	1228.5	8,572
Place of Worship	72.88	82.96	293.04	740
University/College (4Yr)	10,602.00	8,060.00	0	61,070
Total	**168338**	**143251**	**108957**	**1093898**
	100%	**85%**	**65%**	

Trip Length Calc

AVG Trip Length = Link % primary x trip length primary+link % divertedx0.25x length trip primary+link % passbyx0.1

Trip length calculated for each trip type based on trip purpose % and length defaults from CalEEMod

Land Use

Apartments Mid Rise	link % primary	trip length primary	link % diverted	Constant (0.25)	trip length primary	link % passby	constant	Trip Length
H-W or c-w	86.0%	14.70	11.0%	0.25	14.7	3.0%	0.1	13.0
h-s or c-c	86.0%	5.90	11.0%	0.25	5.9	3.0%	0.1	5.2
h-o or c-o	86.0%	8.70	11.0%	0.25	8.7	3.0%	0.1	7.7
Automobile Care Center								
H-W or c-w	21.0%	16.6	51.0%	0.25	16.6	28.0%	0.1	5.6
h-s or c-c	21.0%	8.4	51.0%	0.25	8.4	28.0%	0.1	2.9
h-o or c-o	21.0%	6.9	51.0%	0.25	6.9	28.0%	0.1	2.4
Elementary School								
H-W or c-w	63.0%	16.6	25.0%	0.25	16.6	12.0%	0.1	11.5
h-s or c-c	63.0%	8.4	25.0%	0.25	8.4	12.0%	0.1	5.8
h-o or c-o	63.0%	6.9	25.0%	0.25	6.9	12.0%	0.1	4.8
Free-Standing Discount Store								
H-W or c-w	47.5%	16.6	35.5%	0.25	16.6	17.0%	0.1	9.4
h-s or c-c	47.5%	8.4	35.5%	0.25	8.4	17.0%	0.1	4.8
h-o or c-o	47.5%	6.9	35.5%	0.25	6.9	17.0%	0.1	3.9
Government Office Building								
H-W or c-w	50.0%	16.6	34.0%	0.25	16.6	16.0%	0.1	9.7
h-s or c-c	50.0%	8.4	34.0%	0.25	8.4	16.0%	0.1	4.9
h-o or c-o	50.0%	6.9	34.0%	0.25	6.9	16.0%	0.1	4.1
High School								
H-W or c-w	75.0%	16.6	19.0%	0.25	16.6	6.0%	0.1	13.2
h-s or c-c	75.0%	8.4	19.0%	0.25	8.4	6.0%	0.1	6.7
h-o or c-o	75.0%	6.9	19.0%	0.25	6.9	6.0%	0.1	5.5
Hospital								
H-W or c-w	73.0%	16.6	25.0%	0.25	16.6	2.0%	0.1	13.2
h-s or c-c	73.0%	8.4	25.0%	0.25	8.4	2.0%	0.1	6.7
h-o or c-o	73.0%	6.9	25.0%	0.25	6.9	2.0%	0.1	5.5
Hotel								
H-W or c-w	58.0%	16.6	38.0%	0.25	16.6	4.0%	0.1	11.2
h-s or c-c	58.0%	8.4	38.0%	0.25	8.4	4.0%	0.1	5.7
h-o or c-o	58.0%	6.9	38.0%	0.25	6.9	4.0%	0.1	4.7
Medical Office Building								
H-W or c-w	60.0%	16.6	30.0%	0.25	16.6	10.0%	0.1	11.2
h-s or c-c	60.0%	8.4	30.0%	0.25	8.4	10.0%	0.1	5.7
h-o or c-o	60.0%	6.9	30.0%	0.25	6.9	10.0%	0.1	4.7

Movie Theater (No Matinee)								
H-W or c-w	66.0%	16.6	17.0%	0.25	16.6	17.0%	0.1	11.7
h-s or c-c	66.0%	8.4	17.0%	0.25	8.4	17.0%	0.1	5.9
h-o or c-o	66.0%	6.9	17.0%	0.25	6.9	17.0%	0.1	4.9
Place of Worship								
H-W or c-w	64.0%	16.6	25.0%	0.25	16.6	11.0%	0.1	11.7
h-s or c-c	64.0%	8.4	25.0%	0.25	8.4	11.0%	0.1	5.9
h-o or c-o	64.0%	6.9	25.0%	0.25	6.9	11.0%	0.1	4.9
University/College (4Yr)								
H-W or c-w	91.0%	16.60	9.0%	0.25	16.6	0.0%	0.1	15.5
h-s or c-c	91.0%	8.4	9.0%	0.25	8.4	0.0%	0.1	7.8
h-o or c-o	91.0%	6.9	9.0%	0.25	6.9	0.0%	0.1	6.4

VMT Calc Per Land Use Type (Weekly)

VMT = #Trips x AVG Trip Length per land use and trip type

Trip number for each trip type are derived by multiplying the total trips for each land use calculated above in the Total Trip Calcs by the trip % shown in the Trip Type table for each land use

Apartments Mid Rise	**# trips**	**trip length**	**Weekly VMT**	**Annual VMT**
H-W or c-w	193,208	13.0	2,521,217	
h-s or c-c	92,278	5.2	483,469	
h-o or c-o	195,130	7.7	1,507,235	
Total VMT			4,511,922	234,619,942.25
Automobile Care Center				
H-W or c-w	41,116	5.6	231,503	
h-s or c-c	59,805	2.9	171,222	
h-o or c-o	23,673	2.4	55,791	
Total VMT			458,515	23,842,798
Elementary School				
H-W or c-w	6,595	11.5	75,890	
h-s or c-c	3,044	5.8	17,742	
h-o or c-o	507	4.8	2,430	
Total VMT			96,062	4,995,213
Free-Standing Discount Store				
H-W or c-w	10,799	9.4	101,244	
h-s or c-c	60,900	4.8	289,425	
h-o or c-o	16,818	3.9	65,707	
Total VMT			456,376	23,731,532
Government Office Building				
H-W or c-w	6,824	9.7	66,378	
h-s or c-c	12,821	4.9	63,207	
h-o or c-o	1,034	4.1	4,190	
Total VMT			133,775	6,956,313
High School				
H-W or c-w	2,094	13.2	27,731	

h-s or c-c	463	6.7	3,104	
h-o or c-o	135	5.5	741	
Total VMT			31,576	1,641,969
Hospital				
H-W or c-w	104,274	13.2	1,371,982	
h-s or c-c	25,868	6.7	172,252	
h-o or c-o	30,527	5.5	166,990	
Total VMT			1,711,225	88,983,674
Hotel				
H-W or c-w	11,436	11.2	128,188	
h-s or c-c	36,313	5.7	206,039	
h-o or c-o	11,200	4.7	52,210	
Total VMT			386,437	20,094,724
Medical Office Building				
H-W or c-w	22,690	11.2	254,468	
h-s or c-c	39,401	5.7	223,796	
h-o or c-o	14,564	4.7	67,980	
Total VMT			546,244	28,404,663
Movie Theater (No Matinee)				
H-W or c-w	154	11.7	1,802	
h-s or c-c	6,789	5.9	40,178	
h-o or c-o	1,629	4.9	7,922	
Total VMT			49,903	2,594,949
Place of Worship				
H-W or c-w	0	11.7	-	
h-s or c-c	703	5.9	4,158	
h-o or c-o	37	4.9	180	
Total VMT			4,338	225,588
University/College (4Yr)				
H-W or c-w	3,908	15.5	60,501	
h-s or c-c	54,108	7.8	423,828	
h-o or c-o	3,054	6.4	19,647	
Total VMT			503,976	26,206,774

Annual VMT Calc

the calculated weekly VMT for each land use is summed. This value is multiplied by 50 weeks/year to equal the annual VMT number calculated by CalEEMod

Summed Weekly VMT from Each Land Use	8,890,348.84	
Weeks per Year CalEEMod Uses for Annual VMT	52.00	
Calculated Annual VMT	**462,298,140**	462,298,140
		458,789,101.12

	Size	metric	Weekly VMT		
Apartments Mid Rise	10,563	DU	47,659,431,730.77	2,478,290,449,999.85	199,639.00
Automobile Care Center	808	1000			
Elementary School	1573	Student			
Free-Standing Discount Store	214	1000			
Government Office Building	60	1000			
High School	286	Student			
Hospital	1886	1000			
Hotel	1072	Rooms			
Medical Office Building	401	1000			
Movie Theater (No Matinee)	15	1000			
Place of Worship	8	1000			
University/College (4Yr)	6,200	Students			

CalEEMod VMT Calculator (MITIGATED SCENARIO)

This calcultor was created based on the default trip inputs for the unmitigated CalEEMod run. The calculator calculateds the annual VMT from the proposed project using the same methodology from CalEEMod, described in Appendix A, for the MITIGATED SCENARIO. This calculator can be used to adjust land use trip rates for the MITIGATED PROJECT scenario which is based on the traffic study conducted for the project

	Daily VMT	Calculator Output
Daily VMT Provided by Traffic Study	540,000	
Weekly VMT	3,509,039	
Annual VMT	182,470,009	182,470,084

Trip Type

CalEEMod defaults based on land uses inputted #NAME?

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-O	Primary	Diverted	Pass-by
Apartments Mid Rise	1	1	1	40%	19%	41%	86%	11%	3%
Automobile Care Center	1	1	6.9	33.0%	48.0%	19.0%	21%	51%	28%
Elementary School	16.6	8.4	6.9	65.0%	30.0%	5.0%	63%	25%	12%
Free-Standing Discount Store	16.6	8.4	6.9	12.2%	68.8%	19.0%	48%	36%	17%
Government Office Building	16.6	8.4	6.9	33.0%	62.0%	5.0%	50%	34%	16%
High School	16.6	8.4	6.9	77.8%	17.2%	5.0%	75%	19%	6%
Hospital	16.6	8.4	6.9	64.9%	16.1%	19.0%	73%	25%	2%
Hotel	16.6	8.4	6.9	19.4%	61.6%	19.0%	58%	38%	4%
Medical Office Building	1	1	1	29.6%	51.4%	19.0%	60%	30%	10%
Movie Theater (No Matinee)	16.6	8.4	6.9	1.8%	79.2%	19.0%	66%	17%	17%
Place of Worship	16.6	8.4	6.9	0.0%	95.0%	5.0%	64%	25%	11%
University/College (4Yr)	1	1	4.24	6.4%	88.6%	5.0%	91%	9%	0%

Total Trips

Total Trips = (TripRate weekday x 5 +Trip Sat + Trip Sun)

Average Daily Trips Based on CalEEMod Trip Gen Defaults per land use unit. Total trips Calculated

Land Use	Average Daily Trip Rate			
	weekday	Saturday	Sunday	Total Trips (weekly)
Apartments Mid Rise	70,243.95	67,497.57	61899.18	480,617
Automobile Care Center	19,165.76	19,165.76	9599.04	124,594
Elementary School	2,029.17	0	0	10,146
Free-Standing Discount Store	12,249.36	15,208.98	12061.04	88,517
Government Office Building	4,135.80	0	0	20,679
High School	489.06	174.46	71.5	2,691
Hospital	24,932.92	19,199.48	16804.26	160,668
Hotel	8,758.24	8,779.68	6378.4	58,949
Medical Office Building	14,488.13	3,592.96	621.55	76,655
Movie Theater (No Matinee)	1,170.90	1,489.20	1228.5	8,572
Place of Worship	72.88	82.96	293.04	740
University/College (4Yr)	10,602.00	8,060.00	0	61,070
Total	**168338**	**143251**	**108957**	**1093898**
	100%	**85%**	**65%**	

Trip Length Calc

AVG Trip Length = Link % primary x trip length primary+link % divertedx0.25x length trip primary+link % passbyx0.1

Trip length calculated for each trip type based on trip purpose % and length defaults from CalEEMod

Land Use

	link % primary	trip length primary	link % diverted	Constant (0.25)	trip length primary	link % passby	constant	Trip Length
Apartments Mid Rise								
H-W or c-w	86.0%	1.00	11.0%	0.25	1	3.0%	0.1	0.9
h-s or c-c	86.0%	1.00	11.0%	0.25	1	3.0%	0.1	0.9
h-o or c-o	86.0%	1.00	11.0%	0.25	1	3.0%	0.1	0.9
Automobile Care Center								
H-W or c-w	21.0%	1	51.0%	0.25	1	28.0%	0.1	0.4
h-s or c-c	21.0%	1	51.0%	0.25	1	28.0%	0.1	0.4
h-o or c-o	21.0%	6.9	51.0%	0.25	6.9	28.0%	0.1	2.4
Elementary School								
H-W or c-w	63.0%	16.6	25.0%	0.25	16.6	12.0%	0.1	11.5
h-s or c-c	63.0%	8.4	25.0%	0.25	8.4	12.0%	0.1	5.8
h-o or c-o	63.0%	6.9	25.0%	0.25	6.9	12.0%	0.1	4.8
Free-Standing Discount Store								
H-W or c-w	47.5%	16.6	35.5%	0.25	16.6	17.0%	0.1	9.4
h-s or c-c	47.5%	8.4	35.5%	0.25	8.4	17.0%	0.1	4.8
h-o or c-o	47.5%	6.9	35.5%	0.25	6.9	17.0%	0.1	3.9
Government Office Building								
H-W or c-w	50.0%	16.6	34.0%	0.25	16.6	16.0%	0.1	9.7
h-s or c-c	50.0%	8.4	34.0%	0.25	8.4	16.0%	0.1	4.9
h-o or c-o	50.0%	6.9	34.0%	0.25	6.9	16.0%	0.1	4.1
High School								
H-W or c-w	75.0%	16.6	19.0%	0.25	16.6	6.0%	0.1	13.2
h-s or c-c	75.0%	8.4	19.0%	0.25	8.4	6.0%	0.1	6.7
h-o or c-o	75.0%	6.9	19.0%	0.25	6.9	6.0%	0.1	5.5
Hospital								
H-W or c-w	73.0%	16.6	25.0%	0.25	16.6	2.0%	0.1	13.2
h-s or c-c	73.0%	8.4	25.0%	0.25	8.4	2.0%	0.1	6.7
h-o or c-o	73.0%	6.9	25.0%	0.25	6.9	2.0%	0.1	5.5
Hotel								
H-W or c-w	58.0%	16.6	38.0%	0.25	16.6	4.0%	0.1	11.2

h-s or c-c	58.0%	8.4	38.0%	0.25	8.4	4.0%	0.1	5.7
h-o or c-o	58.0%	6.9	38.0%	0.25	6.9	4.0%	0.1	4.7
Medical Office Building								
H-W or c-w	60.0%	1	30.0%	0.25	1	10.0%	0.1	0.7
h-s or c-c	60.0%	1	30.0%	0.25	1	10.0%	0.1	0.7
h-o or c-o	60.0%	1	30.0%	0.25	1	10.0%	0.1	0.7
Movie Theater (No Matinee)								
H-W or c-w	66.0%	16.6	17.0%	0.25	16.6	17.0%	0.1	11.7
h-s or c-c	66.0%	8.4	17.0%	0.25	8.4	17.0%	0.1	5.9
h-o or c-o	66.0%	6.9	17.0%	0.25	6.9	17.0%	0.1	4.9
Place of Worship								
H-W or c-w	64.0%	16.6	25.0%	0.25	16.6	11.0%	0.1	11.7
h-s or c-c	64.0%	8.4	25.0%	0.25	8.4	11.0%	0.1	5.9
h-o or c-o	64.0%	6.9	25.0%	0.25	6.9	11.0%	0.1	4.9
University/College (4Yr)								
H-W or c-w	91.0%	1.00	9.0%	0.25	1	0.0%	0.1	0.9
h-s or c-c	91.0%	1	9.0%	0.25	1	0.0%	0.1	0.9
h-o or c-o	91.0%	4.24	9.0%	0.25	4.24	0.0%	0.1	4.0

VMT Calc Per Land Use Type (Weekly)

VMT = #Trips x AVG Trip Length per land use and trip type

Trip number for each trip type are derived by multiplying the total trips for each land use calculated above in the Total Trip Calcs by the trip % shown in the Trip Type table for each land use

Apartments Mid Rise	**# trips**	**trip length**	**Weekly VMT**	**Annual VMT**
H-W or c-w	193,208	0.9	172,052	
h-s or c-c	92,278	0.9	82,174	
h-o or c-o	195,130	0.9	173,764	
Total VMT			427,989	22,255,427.65
Automobile Care Center				
H-W or c-w	41,116	0.4	15,028	
h-s or c-c	59,805	0.4	21,859	
h-o or c-o	23,673	2.4	55,791	
Total VMT			92,677	4,819,224
Elementary School				
H-W or c-w	6,595	11.5	75,890	
h-s or c-c	3,044	5.8	17,742	
h-o or c-o	507	4.8	2,430	
Total VMT			96,062	4,995,213
Free-Standing Discount Store				
H-W or c-w	10,799	9.4	101,244	
h-s or c-c	60,900	4.8	289,425	
h-o or c-o	16,818	3.9	65,707	
Total VMT			456,376	23,731,532
Government Office Building				
H-W or c-w	6,824	9.7	66,378	
h-s or c-c	12,821	4.9	63,207	
h-o or c-o	1,034	4.1	4,190	
Total VMT			133,775	6,956,313
High School				
H-W or c-w	2,094	13.2	27,731	
h-s or c-c	463	6.7	3,104	
h-o or c-o	135	5.5	741	
Total VMT			31,576	1,641,969
Hospital				
H-W or c-w	104,274	13.2	1,371,982	
h-s or c-c	25,868	6.7	172,252	
h-o or c-o	30,527	5.5	166,990	
Total VMT			1,711,225	88,983,674
Hotel				
H-W or c-w	11,436	11.2	128,188	
h-s or c-c	36,313	5.7	206,039	
h-o or c-o	11,200	4.7	52,210	
Total VMT			386,437	20,094,724
Medical Office Building				
H-W or c-w	22,690	0.7	15,543	
h-s or c-c	39,401	0.7	26,990	
h-o or c-o	14,564	0.7	9,977	
Total VMT			52,509	2,730,457
Movie Theater (No Matinee)				
H-W or c-w	154	11.7	1,802	
h-s or c-c	6,789	5.9	40,178	
h-o or c-o	1,629	4.9	7,922	
Total VMT			49,903	2,594,949
Place of Worship				
H-W or c-w	0	11.7	-	
h-s or c-c	703	5.9	4,158	
h-o or c-o	37	4.9	180	
Total VMT			4,338	225,588
University/College (4Yr)				

H-W or c-w	3,908	0.9	3,645	
h-s or c-c	54,108	0.9	50,456	
h-o or c-o	3,054	4.0	12,073	
Total VMT			66,173	3,441,012

Annual VMT Calc

the calculated weekly VMT for each land use is summed. This value is multiplied by 50 weeks/year to equal the annual VMT number calculated by CalEEMod

Summed Weekly VMT from Each Land Use	3,509,040.07	
Weeks per Year CalEEMod Uses for Annual VMT	52.00	
Calculated Annual VMT	**182,470,084**	182,470,084