APPENDIX E

Air Quality and Greenhouse Gas Emissions Assessment

Draft Subsequent Environmental Impact Report

North Bayshore Precise Plan (Residential Uses)

City of Mountain View
March 2017

NORTH BAYSHORE PRECISE PLAN
AIR QUALITY AND
GREENHOUSE GAS EMISSIONS ASSESSMENT
MOUNTAIN VIEW, CALIFORNIA

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INTRODUCTION

This report examines air quality and greenhouse gas (GHG) emissions in the Planning Area and region, includes a summary of applicable air quality and GHG regulations, and analyzes potential air quality and GHG impacts associated with the proposed North Bayshore Precise Plan (NBPP).

SETTING

The planning area is Mountain View, which lies in the northwestern portion of Santa Clara County. The planning area is located in the western portion of the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$).

Air Pollutants

Ozone

Ozone is a secondary air pollutant produced in the atmosphere through a complex series of photochemical reactions involving reactive organic gases (ROG) and oxides of nitrogen (NO_X). The main sources of ROG and NO_X, often referred to as ozone precursors, are combustion processes (including combustion in motor vehicle engines) and the evaporation of solvents, paints, and fuels. In the Bay Area, automobiles are the single largest source of ozone precursors. Ozone is referred to as a regional air pollutant because its precursors are transported and diffused by wind concurrently with ozone production through the photochemical reaction process. Ozone causes eye irritation, airway constriction, shortness of breath, and can aggravate existing respiratory diseases such as asthma, bronchitis, and emphysema.

Carbon Monoxide

Carbon monoxide (CO) is an odorless, colorless gas usually formed as the result of the incomplete combustion of fuels. The single largest source of CO is motor vehicles. While CO transport is limited, it disperses with distance from the source under normal meteorological conditions. However, under certain extreme meteorological conditions, CO concentrations near congested roadways or intersections may reach unhealthful levels that adversely affect local sensitive receptors (e.g., residents, schoolchildren, the elderly, hospital patients, etc.). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service (LOS) or with extremely high traffic volumes. Exposure to high concentrations of CO reduces the oxygen-carrying capacity of the blood and can cause headaches, nausea, dizziness, fatigue, impair central nervous system function, and induce angina (chest pain) in persons with serious heart disease. Very high levels of CO can be fatal.

Nitrogen Dioxide

NO_2 is a reddish brown gas that is a byproduct of combustion processes. Automobiles and industrial operations are the main sources of NO_2. Aside from its contribution to ozone formation, NO_2 also contribute to other pollution problems, including a high concentration of fine particulate matter, poor visibility, and acid deposition. NO_2 may be visible as a coloring component on high pollution days, especially in conjunction with high ozone levels. NO_2 decreases lung function and may reduce resistance to infection. On January 22, 2010 the EPA strengthened the health-based NAAQS for NO_2.

Sulfur Dioxide

Sulfur dioxide (SO_2) is a colorless, irritating gas formed primarily from incomplete combustion of fuels containing sulfur. Industrial facilities also contribute to gaseous SO_2 levels in the region. SO_2 irritates the respiratory tract, can injure lung tissue when combined with fine particulate matter, and reduces visibility and the level of sunlight.

Particulate Matter

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Coarse particles are those that are larger than 2.5 microns but smaller than 10 microns (PM_{10}). $PM_{2.5}$ refers to fine suspended particulate matter with an aerodynamic diameter of 2.5 microns or less that is not readily filtered out by the lungs. Nitrates, sulfates, dust, and combustion particulates are major components of PM_{10} and $PM_{2.5}$. These small particles can be directly emitted into the atmosphere as by-products of fuel combustion, through abrasion, such as tire or brake lining wear, or through fugitive dust (wind or mechanical erosion of soil). They can also be formed in the atmosphere through chemical reactions. Particulates may transport carcinogens and other toxic compounds that adhere to the particle surfaces, and can enter the human body through the lungs.

Lead

Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been mobile and industrial sources. As a result of the phase-out of leaded gasoline, metal processing is currently the primary source of lead emissions. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufactures.

Twenty years ago, mobile sources were the main contributor to ambient lead concentrations in the air. In the early 1970s, the U.S. EPA established national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The EPA banned the use of leaded gasoline in highway vehicles in

December 1995. As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector and levels of lead in the air decreased dramatically.

Toxic Air Contaminants (TACs)

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated by the EPA and the CARB. Some examples of TACs include: benzene, butadiene, formaldehyde, and hydrogen sulfide. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria pollutants.

High volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic (distribution centers, truck stops) were identified as posing the highest risk to adjacent receptors. Other facilities associated with increased risk include warehouse distribution centers, large retail or industrial facilities, high volume transit centers, or schools with a high volume of bus traffic. Health risks from TACs are a function of both concentration and duration of exposure.

Sensitive Receptors

Some groups of people are more affected by air pollution than others. The State has identified the following people who are most likely to be affected by air pollution: children under 14, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools.

Health effects of criteria pollutants and their potential sources are described below and summarized in Table 1.

TABLE 1 Health Effects of Air Pollutants

Pollutants	Sources	Primary Effects
Carbon Monoxide (CO)	• Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust. • Natural events, such as decomposition of organic matter.	• Reduced tolerance for exercise. • Impairment of mental function. • Impairment of fetal development. • Death at high levels of exposure. • Aggravation of some heart diseases (angina).

Nitrogen Dioxide (NO_2)	• Motor vehicle exhaust. • High temperature stationary combustion. • Atmospheric reactions.	• Aggravation of respiratory illness. • Reduced visibility. • Reduced plant growth. • Formation of acid rain.
Ozone (O_3)	• Atmospheric reaction of organic gases with nitrogen oxides in sunlight.	• Aggravation of respiratory and cardiovascular diseases. • Irritation of eyes. • Impairment of cardiopulmonary function. • Plant leaf injury.
Lead (Pb)	• Contaminated soil.	• Impairment of blood functions and nerve construction. • Behavioral and hearing problems in children.
Suspended Particulate Matter ($PM_{2.5}$ and PM_{10})	• Stationary combustion of solid fuels. • Construction activities. • Industrial processes. • Atmospheric chemical reactions.	• Reduced lung function. • Aggravation of the effects of gaseous pollutants. • Aggravation of respiratory and cardiorespiratory diseases. • Increased cough and chest discomfort. • Soiling. • Reduced visibility.
Sulfur Dioxide (SO_2)	• Combustion of sulfur-containing fossil fuels. • Smelting of sulfur-bearing metal ores. • Industrial processes.	• Aggravation of respiratory diseases (asthma, emphysema). • Reduced lung function. • Irritation of eyes. • Reduced visibility. • Plant injury. • Deterioration of metals, textiles, leather, finishes, coatings, etc.
Toxic Air Contaminants	• Cars and trucks, especially diesels. • Industrial sources such as chrome platers. • Neighborhood businesses such as dry cleaners and service stations. • Building materials and product.	• Cancer. • Chronic eye, lung, or skin irritation. • Neurological and reproductive disorders.

Source: CARB, 2008.

Regional Air Quality

The North Bayshore Precise Plan is in the San Francisco Bay Area Air Basin. The Air Basin includes the counties of San Francisco, Santa Clara, San Mateo, Marin, Napa, Contra Costa, and Alameda, along with the southeast portion of Sonoma County and the southwest portion of Solano County.

The North Bayshore Precise Plan is within the jurisdiction of the BAAQMD. Air quality conditions in the San Francisco Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants, and the number of days during which the region exceeds air quality standards, have fallen dramatically. Exceedances of air quality standards occur primarily during meteorological conditions conducive to high pollution levels, such as cold, windless winter nights or hot, sunny summer afternoons.

Local Climate and Air Quality

Air quality is a function of both local climate and local sources of air pollution. Air quality is the balance of the natural dispersal capacity of the atmosphere and emissions of air pollutants from human uses of the environment. Climate and topography are major influences on air quality.

Climate and Meteorology

During the summer, mostly clear skies result in warm daytime temperatures and cool nights in the Santa Clara Valley. Winter temperatures are mild, except for very cool but generally frost-less mornings. Further inland where the moderating effect of the bay is not as strong, temperature extremes are greater. Wind patterns are influenced by local terrain, with a northwesterly sea breeze typically developing during the daytime. Winds are usually stronger in the spring and summer. Rainfall amounts are modest, ranging from 13 inches in the lowlands to 20 inches in the hills.

Air Pollution Potential

Ozone and fine particle pollution, or $PM_{2.5}$, are the major regional air pollutants of concern in the San Francisco Bay Area. Ozone is primarily a problem in the summer, and fine particle pollution in the winter. Most of Santa Clara County is well south of the cooler waters of the San Francisco Bay and far from the cooler marine air which usually reaches across San Mateo County in summer. Ozone frequently forms on hot summer days when the prevailing seasonal northerly winds carry ozone precursors southward across the county, causing health standards to be exceeded. Santa Clara County experiences many exceedances of the $PM_{2.5}$ standard each winter. This is due to the high population density, wood smoke, industrial and freeway traffic,

and poor wintertime air circulation caused by extensive hills to the east and west that block wind flow into the region.

Existing Air Pollutant Levels

BAAQMD monitors air pollution at various sites within the Bay Area. The closest official monitoring station to Mountain View is located in Cupertino at 22601 Voss Avenue. That stationed closed in 2013, so data from San Jose are presented for years 2014 and 2015. Pollutant monitoring results for the years 2010 to 2014 at the Cupertino ambient air quality monitoring station are shown in Table 2.

TABLE 2 Ambient Air Quality at the Cupertino and San Jose Monitoring Stations

Pollutant	Average Time	Measured Air Pollutant Levels				
		Cupertino			San Jose	
		2011	2012	2013	2014	2015
Ozone (O_3)	1-Hour	0.086 ppm	0.083 ppm	0.091 ppm	0.089ppm	0.094 ppm
	8-Hour	0.067 ppm	0.067 ppm	**0.077 ppm (1 day)**	0.066ppm	**0.081 ppm (2 days)**
Carbon Monoxide (CO)	8-Hour	1.0 ppm	0.8 ppm	1.3 ppm	1.9 ppm	1.8 ppm
Nitrogen Dioxide (NO_2)	1-Hour	0.043 ppm	0.045 ppm	0.042 ppm	0.058 ppm	0.049 ppm
	Annual	0.009 ppm	0.008 ppm	0.009 ppm	0.013 ppm	0.013 ppm
Respirable Particulate Matter (PM_{10})	24-Hour	28.9µg/m^3	41.5µg/m^3	34 µg/m^3	**56µg/m^3 (1 day)**	**58µg/m^3 (1 day)**
	Annual	14.2µg/m^3	13.5µg/m^3	14.6µg/m^3	19.9 µg/m^3	**22.0µg/m^3**
Fine Particulate Matter ($PM_{2.5}$)	24-Hour	ND	ND	**57.7µg/m^3 (6 days)**	**60.4 µg/m^3 (2 days)**	**49.4µg/m^3 (2 days)**
	Annual	ND	ND	**12.4µg/m^3**	8.4 µg/m^3	10.0 µg/m^3

Source: BAAQMD Air Pollution Summaries (2011-2015) at http://www.baaqmd.gov/about-air-quality/air-quality-summaries

Note: ppm = parts per million and µg/m^3 = micrograms per cubic meter
Values reported in **bold** exceed ambient air quality standard
ND = No Data available.

Greenhouse Gases

Global temperatures are affected by naturally occurring and anthropogenic-generated (generated by humankind) atmospheric gases, such as water vapor, carbon dioxide, methane, and nitrous oxide. Gases that trap heat in the atmosphere are called greenhouse gases (GHG). Solar radiation enters the earth's atmosphere from space, and a portion of the radiation is absorbed at the surface. The earth emits this radiation back toward space as infrared radiation. Greenhouse gases, which are mostly transparent to incoming solar radiation, are effective in absorbing infrared radiation and redirecting some of this back to the earth's surface. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This is known as the greenhouse effect. The greenhouse effect helps maintain a habitable climate. Emissions of GHGs from human activities, such as electricity production, motor vehicle use, and agriculture, are elevating the concentration of GHGs in the atmosphere, and are reported to have led to a trend of unnatural warming of the earth's natural climate, known as global warming or global climate change. The term "global climate change" is often used interchangeably with the term "global warming," but "global climate change" is preferred because it implies that there are other consequences to the global climate in addition to rising temperatures. Other than water vapor, the primary GHGs contributing to global climate change include the following gases:

- Carbon dioxide (CO_2), primarily a byproduct of fuel combustion;
- Nitrous oxide (N_2O), a byproduct of fuel combustion; also associated with agricultural operations such as the fertilization of crops;
- Methane (CH_4), commonly created by off-gassing from agricultural practices (e.g. livestock), wastewater treatment and landfill operations;
- Chlorofluorocarbons (CFCs) were used as refrigerants, propellants and cleaning solvents, but their production has been mostly prohibited by international treaty;
- Hydrofluorocarbons (HFCs) are now widely used as a substitute for chlorofluorocarbons in refrigeration and cooling; and
- Perfluorocarbons (PFCs) and sulfur hexafluoride (SF_6) emissions are commonly created by industries such as aluminum production and semiconductor manufacturing.

These gases vary considerably in terms of Global Warming Potential (GWP), a term developed to compare the propensity of each GHG to trap heat in the atmosphere relative to another GHG. GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and the length of time of gas remains in the atmosphere. The GWP of each GHG is measured relative to CO_2. Accordingly, GHG emissions are typically measured and reported in terms of equivalent CO_2 (CO_2e). For instance, SF_6 is 22,800 times more intense in terms of global climate change contribution than CO_2.

An expanding body of scientific research supports the theory that global warming is currently affecting changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. The climate and several naturally-occurring resources within California could be adversely affected by the global warming trend. Increased precipitation and sea level rise could increase coastal flooding, saltwater intrusion, and degradation of wetlands. Mass migration and/or loss of plant and animal species could also occur. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes and drought; and increased levels of air pollution.

REGULATORY FRAMEWORK

Pursuant to the federal Clean Air Act (CAA) of 1970, the U.S. Environmental Protection Agency (EPA) established national ambient air quality standards (NAAQS). The NAAQS were established for major pollutants, termed "criteria" pollutants. Criteria pollutants are defined as those pollutants for which the Federal and State governments have established ambient air quality standards, or criteria, for outdoor concentrations in order to protect public health.

Both the EPA and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants: carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and suspended particulate matter (PM). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility reducing particles. These standards are designed to protect the health and welfare of the public with a reasonable margin of safety. These ambient air quality standards are levels of contaminants which represent safe levels that avoid specific adverse health effects associated with each criteria pollutant.

Federal Air Quality Regulations

At the federal level, 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 (FCAA), which was enacted in 1963. The FCAA was amended in 1970, 1977, and 1990.

The FCAA required EPA to establish primary and secondary NAAQS and required each state to prepare an air quality control plan referred to as a State Implement Plan (SIP). Federal standards include both primary and secondary standards. Primary standards set limits to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly. Secondary standards set limits to protect public welfare, including protection against decreased

visibility, damage to animals, crops, vegetation, and buildings.[1] The Federal Clean Air Act Amendments of 1990 (FCAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. The SIP is periodically modified to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies. EPA has responsibility to review all state SIPs to determine conformity with the mandates of the FCAAA and determine if implementation will achieve air quality goals. If the EPA determines a SIP to be inadequate, a Federal Implementation Plan (FIP) may be prepared for the nonattainment area which imposes additional control measures. Failure to submit an approvable SIP or to implement the plan within the mandated timeframe may result in the application of sanctions on transportation funding and stationary air pollution sources in the air basin.

The 1970 FCAA authorized the establishment of national health-based air quality standards and also set deadlines for their attainment. The FCAA Amendments of 1990 changed deadlines for attaining NAAQS as well as the remedial actions required of areas of the nation that exceed the standards. Under the FCAA, State and local agencies in areas that exceed the NAAQS are required to develop SIPs to show how they will achieve the NAAQS by specific dates. The FCAA requires that projects receiving federal funds demonstrate conformity to the approved SIP and local air quality attainment plan for the region. Conformity with the SIP requirements would satisfy the FCAA requirements.

State Air Quality Regulations

The CARB is the agency responsible for the coordination and oversight of State and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA), adopted in 1988. The CCAA requires that all air districts in the State achieve and maintain the California Ambient Air Quality Standards (CAAQS) by the earliest practical date. The CCAA specifies that districts should focus on reducing the emissions from transportation and air-wide emission sources, and provides districts with the authority to regulate indirect sources.

CARB is also responsible for developing and implementing air pollution control plans to achieve and maintain the NAAQS. CARB is primarily responsible for statewide pollution sources and produces a major part of the SIP. Local air districts provide additional strategies for sources under their jurisdiction. CARB combines this data and submits the completed SIP to the EPA.
Other CARB duties include monitoring air quality (in conjunction with air monitoring networks maintained by air pollution control and air quality management districts), establishing CAAQS (which in many cases are more stringent than the NAAQS), determining and updating area

[1] U.S. Environmental Protection Agency, 2013. Website: www.epa.gov/air/criteria.html. February.

designations and maps, and setting emissions standards for new mobile sources, consumer products, small utility engines, and off-road vehicles.

Attainment Status Designations

The CARB is required to designate areas of the State as attainment, nonattainment, or unclassified for all State standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A "non-attainment" designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An "unclassified" designation signifies that data does not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

Table 3 shows the State and Federal standards for criteria pollutants and provides a summary of the attainment status for the San Francisco Bay Area with respect to National and State ambient air quality standards.

TABLE 3 San Francisco Bay Area Attainment Status

Pollutant	Averaging Time	California Standards		National Standards	
		Concentration	Attainment Status	Concentration	Attainment Status
Carbon Monoxide (CO)	8-Hour	9 ppm (10 mg/m^3)	Attainment	9 ppm (10 mg/m^3)	Attainment
	1-Hour	20 ppm (23 mg/m^3)	Attainment	35 ppm (40 mg/m^3)	Attainment
Nitrogen Dioxide (NO_2)	Annual Mean	0.030 ppm (57 mg/m^3)	Attainment	0.053 ppm (100 µg/m^3)	Attainment
	1-Hour	0.18 ppm (338 µg/m^3)	Attainment	0.100 ppm	Unclassified
Ozone (O_3)	8-Hour	0.07 ppm (137 µg/m^3)	Nonattainment	0.070 ppm	Nonattainment
	1-Hour	0.09 ppm (180 µg/m^3)	Nonattainment	Not Applicable	Not Applicable
Suspended Particulate Matter (PM_{10})	Annual Mean	20 µg/m^3	Nonattainment	Not Applicable	Not Applicable
	24-Hour	50 µg/m^3	Nonattainment	150 µg/m^3	Unclassified

Suspended Particulate Matter ($PM_{2.5}$)	Annual Mean	12 µg/m^3	Nonattainment	12 µg/m^3	Attainment
	24-Hour	Not Applicable	Not Applicable	35 µg/m^3	Nonattainment
Sulfur Dioxide (SO_2)	Annual Mean	Not Applicable	Not Applicable	80 µg/m^3 (0.03 ppm)	Attainment
	24-Hour	0.04 ppm (105 µg/m^3)	Attainment	365 µg/m^3 (0.14 ppm)	Attainment
	1-Hour	0.25 ppm (655 µg/m^3)	Attainment	0.075 ppm (196 µg/m^3)	Attainment

Lead (Pb) is not listed in the above table because it has been in attainment since the 1980s.
ppm = parts per million
mg/m^3 = milligrams per cubic meter
µg/m^3 = micrograms per cubic meter

Source: Bay Area Air Quality Management District, 2016.

California Clean Air Act

In 1988, the CCAA required that all air districts in the State endeavor to achieve and maintain CAAQS for carbon monoxide (CO), ozone (O_3), sulfur dioxide (SO_2) and nitrogen dioxide (NO_2) by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

California Air Resources Board Handbook

In 1998, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. CARB has completed a risk management process that identified potential cancer risks for a range of activities using diesel-fueled engines.[2] CARB subsequently developed an Air Quality and Land Use Handbook[3] (Handbook) in 2005 that is intended to serve as a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process. The CARB Handbook recommends that planning agencies consider proximity to air pollution sources when considering new locations for "sensitive" land uses, such as residences, medical facilities, daycare centers, schools, and playgrounds.

[2] California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.
[3] California Air Resources Board, 2005. *Air Quality and Land Use Handbook: A Community Health Perspective.* April.

Air pollution sources of concern include freeways, rail yards, ports, refineries, distribution centers, chrome plating facilities, dry cleaners, and large gasoline service stations. Key recommendations in the Handbook relative to the Plan Area include taking steps to consider or 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.
- Within 300 feet of gasoline fueling stations.
- Within 300 feet of dry cleaning operations (note that dry cleaning with TACs is being phased out and will be prohibited in 2023).

Bay Area Air Quality Management District (BAAQMD)

The BAAQMD seeks to attain and maintain air quality conditions in the San Francisco Bay Area Air Basin (SFBAAB) through a comprehensive program of planning, regulation, enforcement, technical innovation, and education. The clean air strategy includes the preparation of plans for the attainment of ambient air quality standards, adoption and enforcement of rules and regulations, and issuance of permits for stationary sources. The BAAQMD also inspects stationary sources and responds to citizen complaints, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by law.

Clean Air Plan

The BAAQMD is responsible for developing a Clean Air Plan which guides the region's air quality planning efforts to attain the CAAQS. The BAAQMD's 2010 Clean Air Plan is the latest Clean Air Plan which contains district-wide control measures to reduce ozone precursor emissions (i.e., ROG and NO_X), particulate matter and greenhouse gas emissions.

The Bay Area 2010 Clean Air Plan, which was adopted on September 15, 2010 by the BAAQMD's board of directors:

- Updates the Bay Area 2005 Ozone Strategy in accordance with the requirements of the California Clean Air Act to implement "all feasible measures" to reduce ozone;
- Provides a control strategy to reduce ozone, particulate matter (PM), air toxics, and greenhouse gases in a single, integrated plan;
- Reviews progress in improving air quality in recent years; and
- Established emission control measures to be adopted or implemented in the 2010 to 2012 timeframe.

BAAQMD CARE Program

The Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area. The program examines TAC emissions from point sources, area sources and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. The BAAQMD has identified six communities as impacted: Concord, Richmond/San Pablo, Western Alameda County, San Jose, Redwood City/East Palo Alto, and Eastern San Francisco.

BAAQMD California Environmental Quality Act (CEQA) Air Quality Guidelines

The BAAQMD *CEQA Air Quality Guidelines*[4] were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for air toxics, odors, and greenhouse gas emissions. In June 2010, the BAAQMD's Board of Directors adopted CEQA thresholds of significance and an update of their *CEQA Guidelines*. In May 2011, the updated BAAQMD *CEQA Air Quality Guidelines* were amended to include a risk and hazards threshold for new receptors and modify procedures for assessing impacts related to risk and hazard impacts.

BAAQMD's adoption of significance thresholds contained in the 2011 CEQA Air Quality Guidelines was called into question by an order issued March 5, 2012, in California Building Industry Association (CBIA) v. BAAQMD (Alameda Superior Court Case No. RGI0548693). The order requires the BAAQMD to set aside its approval of the thresholds until it has conducted environmental review under CEQA. The ruling made in the case concerned the environmental impacts of adopting the thresholds and how the thresholds would indirectly affect land use development patterns. In August 2013, the Appellate Court struck down the lower court's order to set aside the thresholds (Cal. Court of Appeal, First Appellate District, Case Nos. A135335 & A136212). CBIA sought review by the California Supreme Court on three issues, including the

[4] Bay Area Air Quality Management District, 2011. *CEQA Air Quality Guidelines*. May.

appellate court's decision to uphold the BAAQMD's adoption of the thresholds, and the Court granted review on just one: Under what circumstances, if any, does CEQA require an analysis of how existing environmental conditions will impact future residents or users of a proposed project? In December 2015, the Supreme Court determined that an analysis of the impacts of the environment on a project – known as "CEQA-in-reverse" – is only required under two limited circumstances: (1) when a statute provides an express legislative directive to consider such impacts; and (2) when a proposed project risks exacerbating environmental hazards or conditions that already exist (Cal. Supreme Court Case No. S213478). The Supreme Court reversed the Court of Appeal's decision and remanded the matter back to the appellate court to reconsider the case in light of the Supreme Court's ruling.

Greenhouse Gas Regulatory Framework

This section summarizes key federal, State, and City statutes, regulations, and policies that would apply to the Master Plan Update. Global climate change resulting from GHG emissions is an emerging environmental concern being raised and discussed at the international, national, and statewide level. At each level, agencies are considering strategies to control emissions of gases that contribute to global climate change.

Federal Regulations

The United States participates in the United Nations Framework Convention on Climate Change (UNFCCC). While the United States signed the Kyoto Protocol, which would have required reductions in GHGs, Congress never ratified the protocol. The federal government chose voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science. At this time, there are no federal regulations or policies pertaining to GHG emissions from proposed plans like the NBPP.

State Regulations

The State of California is concerned about GHG emissions and their effect on global climate change. The State recognizes that "there appears to be a close relationship between the concentration of GHGs in the atmosphere and global temperatures" and that "the evidence for climate change is overwhelming." The effects of climate change on California, in terms of how it would affect the ecosystem and economy, remain uncertain. The State has many areas of concern regarding climate change with respect to global warming. According to the 2006 Climate Action Team Report, the following climate change effects and conditions can be expected in California over the course of the next century:

- A diminishing Sierra snowpack declining by 70 percent to 90 percent, effecting the state's water supply;

- Increasing temperatures from 8 to 10.4 degrees Fahrenheit (°F) under the higher emission scenarios, leading to a 25 to 35 percent increase in the number of days ozone pollution standards are exceeded in most urban areas;
- Coastal erosion along the length of California and seawater intrusion into the Sacramento River Delta from a 4- to 33-inch rise in sea level. This would exacerbate flooding in already vulnerable regions;
- Increased vulnerability of forests due to pest infestation and increased temperatures;
- Increased challenges for the state's important agricultural industry from water shortages, increasing temperatures, and saltwater intrusion into the Delta; and
- Increased electricity demand, particularly in the hot summer months.

Assembly Bill 1575 (1975)

In 1975, the Legislature created the California Energy Commission (CEC). The CEC regulates electricity production that is one of the major sources of GHGs.

Title 24, Part 6 of the California Code of Regulations (1978)

The Energy Efficiency Standards for Residential and Nonresidential Buildings were established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods.

Assembly Bill 1493 (2002)

Assembly Bill (AB) 1493 required CARB to develop and adopt regulations that reduce GHG emitted by passenger vehicles and light duty trucks.

State of California Executive Order S-3-05 (2005)

The Governor's Executive Order established aggressive emissions reductions goals: by 2010, GHG emissions must be reduced to 2000 levels; by 2020, GHG emissions must be reduced to 1990 levels; and by 2050, GHG emissions must be reduced to 80 percent below 1990 levels.

In June 2005, the Governor of California signed Executive Order S-3-05, which identified Cal/EPA as the lead coordinating State agency for establishing climate change emission reduction targets in California. A "Climate Action Team," a multi-agency group of State agencies, was set up to implement Executive Order S-3-05. Under this order, the State plans to reduce GHG emissions to 80 percent below 1990 levels by 2050. GHG emission reduction

strategies and measures to reduce global warming were identified by the California Climate Action Team in 2006.

Assembly Bill 32 (AB 32), California Global Warming Solutions Act (2006)

AB 32, the Global Warming Solutions Act of 2006, codifies the State's GHG emissions target by directing CARB to reduce the State's global warming emissions to 1990 levels by 2020. AB 32 was signed and passed into law by Governor Schwarzenegger on September 27, 2006. Since that time, the CARB, CEC, California Public Utilities Commission (CPUC), and Building Standards Commission have all been developing regulations that will help meet the goals of AB 32 and Executive Order S-3-05.

A Scoping Plan for AB 32 was adopted by CARB in December 2008. It contains the State's main strategies to reduce GHGs from business-as-usual emissions projected in 2020 back down to 1990 levels. Business-as-usual (BAU) is the projected emissions in 2020, including increases in emissions caused by growth, without any GHG reduction measures. The Scoping Plan has a range of GHG reduction actions, including direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

As directed by AB 32, CARB has also approved a statewide GHG emissions limit. On December 6, 2007, CARB staff resolved an amount of 427 million metric tons of carbon dioxide equivalent (MMT CO_2e) as the total statewide GHG 1990 emissions level and 2020 emissions limit. The limit is a cumulative statewide limit, not a sector- or facility-specific limit. CARB updated the future 2020 BAU annual emissions forecast, in light of the economic downturn, to 545 million metric tons of CO2e. Two GHG emissions reduction measures currently enacted that were not previously included in the 2008 Scoping Plan baseline inventory were included, further reducing the baseline inventory to 507 million metric tons of CO2e. Thus, an estimated reduction of 80 million metric tons of CO2e is necessary to reduce statewide emissions to meet the AB 32 target by 2020.

Senate Bill 375, California's Regional Transportation and Land Use Planning Efforts (2008)

California enacted legislation (SB 375) to expand the efforts of AB 32 by controlling indirect GHG emissions caused by urban sprawl. SB 375 provides incentives for local governments and applicants to implement new conscientiously planned growth patterns. This includes incentives for creating attractive, walkable, and sustainable communities and revitalizing existing communities. The legislation also allows applicants to bypass certain environmental reviews under CEQA if they build projects consistent with the new sustainable community strategies. Development of more alternative transportation options that would reduce vehicle trips and miles

traveled, along with traffic congestion, would be encouraged. SB 375 enhances CARB's ability to reach the AB 32 goals by directing the agency in developing regional GHG emission reduction targets to be achieved from the transportation sector for 2020 and 2035. CARB works with the metropolitan planning organizations (e.g. Association of Bay Area Governments [ABAG] and Metropolitan Transportation Commission [MTC]) to align their regional transportation, housing, and land use plans to reduce vehicle miles traveled and demonstrate the region's ability to attain its GHG reduction targets. A similar process is used to reduce transportation emissions of ozone precursor pollutants in the Bay Area.

Executive Order S-13-08 (2008)

This Executive Order directed California agencies to assess and reduce the vulnerability of future construction projects to impacts associated with sea-level rise.

Bay Area Air Quality Management District

BAAQMD is the regional government agency that regulates sources of air pollution within the nine San Francisco Bay Area counties. The BAAQMD regulates GHG emissions through the following plans, programs, and guidelines.

Regional Clean Air Plans

BAAQMD and other air districts prepare clean air plans in accordance with the State and Federal Clean Air Acts. The Bay Area 2010 Clean Air Plan (CAP) is a comprehensive plan to improve Bay Area air quality and protect public health through implementation of a control strategy designed to reduce emissions and ambient concentrations of harmful pollutants. The most recent CAP also includes measures designed to reduce GHG emissions.

BAAQMD Climate Protection Program

The BAAQMD established a climate protection program to reduce pollutants that contribute to global climate change and affect air quality in the San Francisco Bay Area Air Basin. The climate protection program includes measures that promote energy efficiency, reduce vehicle miles traveled, and develop alternative sources of energy, all of which assist in reducing emissions of GHG and in reducing air pollutants that affect the health of residents. BAAQMD also seeks to support current climate protection programs in the region and to stimulate additional efforts through public education and outreach, technical assistance to local governments and other interested parties, and promotion of collaborative efforts among stakeholders.

BAAQMD CEQA Air Quality Guidelines

The BAAQMD adopted revised CEQA Air Quality Guidelines on June 2, 2010 and then adopted a modified version of the Guidelines in May, 2011. The BAAQMD CEQA Air Quality Guidelines include thresholds of significance for greenhouse gas emissions. Under the latest CEQA Air Quality Guidelines, a local government may prepare a qualified greenhouse gas Reduction Strategy that is consistent with AB 32 goals. If a project is consistent with an adopted qualified greenhouse gas Reduction Strategy, it can be presumed that the project will not have significant GHG emissions under CEQA.[5] The BAAQMD also developed a quantitative threshold for project- and plan-level analyses based on estimated GHG emissions, as well as per capita metrics.

City of Mountain View GHG Reduction Program

The City of Mountain View has adopted qualified GHG reduction program (GGRP).[6] This program meets the requirements of a GHG Reduction Strategy under State CEQA Guidelines Section 15183.5. The program includes a goal to improve communitywide emissions efficiency (per-service population – residents and full-time employees) by 15 to 20 percent over 2005 levels by 2020 and by 30 percent over 2005 levels by 2030. The GGRP implements the following goal, policy, and actions from the Mountain View General Plan Mobility Element:

Goal MOB-9: Achievement of state and regional air quality and greenhouse gas emission reduction targets

> ***Policy MOB 9.1 Greenhouse gas emissions:*** Develop cost-effective strategies for reducing greenhouse gas emissions in coordination with the Greenhouse Gas Reduction Program.
>
> - *Action MOB 9.1.1 Greenhouse Gas Inventory: Maintain and regularly update the City's municipal and community Greenhouse Gas Inventory to track emissions.*
> - *Action MPB 9.1.2 Greenhouse Gas Reduction Program: Regularly update the Greenhouse Gas Reduction Program to address transportation emissions reductions.*

[5] Bay Area Air Quality Management District, 2011. *CEQA Air Quality Guidelines*. May.
[6] AECOM. 2012. City of Mountain View Greenhouse Gas Reduction Program. August.

PROJECT IMPACTS AND MITIGATION MEASURES

Significance Criteria

Per Appendix G of the CEQA Guidelines and BAAQMD recommendations, air quality and GHG impacts are considered significant if implementation of the NBPP would:

1) Conflict with or obstruct implementation of an applicable air quality plan;
2) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
3) Violate any air quality standard or contribute substantially to an existing or projected air quality violation;
4) Expose sensitive receptors to substantial pollutant concentrations;
5) Create objectionable odors affecting a substantial number of people;
6) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
7) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The BAAQMD adopted CEQA Guidelines in June 2010, which were revised in May 2011. Methodology and thresholds for criteria air pollutant impacts and community health risk, as set forth in the BAAQMD Guidelines, are utilized in this analysis.

The following screening thresholds and significance criteria would be applicable to the NBPP.

<u>Consistency with Clean Air Planning Efforts</u>

According to the BAAQMD Air Quality Guidelines, proposed plans must show over the planning period of the plan that:

- The plan supports the primary goals of the current air quality plan;
- The plan incorporates current air quality plan control measures as appropriate to the plan area
- The plan does not disrupt or hinder implementation of any air quality plan control measures; and

- The rate of increase in vehicle miles traveled or vehicle trips (either measure may be used) within the plan area is equal to or lower than the rate of increase in population projected for the proposed plan.

Construction and Operation Emissions

The BAAQMD Air Quality Guidelines do not have thresholds related to direct and indirect criteria pollutant emissions resulting from plan implementation. Traffic resulting from the implementation of the plan would cause a significant local air quality impact if emissions of CO cause a projected exceedance of the ambient CO State standard of 9.0 parts per million (ppm) for 8-hour averaging period. This would be considered to cause or contribute substantially to an existing or projected air quality violation.

Exposure of New Residences to Toxic Air Contaminants

Unlike industrial or stationary sources of air pollution, residential development and other development where sensitive receptors would be located do not require air quality permits. Nonetheless, this type of development can expose people to unhealthy conditions. The BAAQMD Air Quality Guidelines Thresholds of Significance for plans with regard to community risk and hazard impacts are:

- Identify special overlay zones around existing and planned sources of TACs and PM (including adopted risk reduction plan areas), and special overlay zones on each side of all freeways and high-volume roadways; and
- The plan must also identify goals, policies, and objectives to minimize potential impacts and create overlay zones around sources of TACs, PM, and hazards.

Odors

Odors are assessed based on the potential of the Plan to result in odor complaints. The BAAQMD Air Quality Guidelines Thresholds of Significance for plans with regard to odor impacts are:

- Identify special overlay zones around existing and planned sources of odors; and
- The plan must identify goals, policies, and objectives to minimize potential impacts and create buffer distances between sources of odors and receptors.

Greenhouse Gas Emissions

The BAAQMD thresholds were developed specifically for the Bay Area after considering the latest Bay Area GHG inventory and the effects of AB 32 scoping plan measures that would reduce regional emissions. BAAQMD intends to achieve GHG reductions from new land use developments to close the gap between projected regional emissions with AB 32 scoping plan measures and the AB 32 targets. The BAAQMD GHG recommendations include a specific plan- and project-level GHG emission efficiency metric of 4.6 MT of CO_2e per service population (future residences and full-time workers) per year. In addition, the City's GGRP established an efficiency metric of 4.5 MT of CO_2e per service population/year for 2030.

Impact: Conflict with or obstruct implementation of an applicable air quality plan?

BAAQMD is the regional agency responsible for overseeing compliance with State and Federal laws, regulations, and programs within the SFBAAB. BAAQMD, with assistance from ABAG and MTC, has prepared and implements specific plans to meet the applicable laws, regulations, and programs. The most recent and comprehensive of which is the *Bay Area 2010 Clean Air Plan*.[7] The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. The BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality impacts. In formulating compliance strategies, BAAQMD relies on planned land uses established by local general plans. Land use planning affects vehicle travel, which in turn affects region-wide emissions of air pollutants and GHG.

The proposed North Bayshore Precise Plan would result in up to an additional 9,850 multi-family residential units between 2015 and 2030. Daily vehicle miles traveled (VMT) for 2015 and 2030 were from the project traffic consultant (total VMT accounting method). Table 4 identifies the VMT and population increases for the NBPP. Using 2015 as a baseline year, VMT attributable to implementation of the NBPP is anticipated to increase 65 percent. The increase in population is estimated to be 2,268 percent. As a result, VMT would not increase at a higher rate than population with implementation of the NBPP and this impact would be considered less than significant.

[7] Bay Area Air Quality Management District (BAAQMD). 2010. *Bay Area 2010 Clean Air Plan.*

TABLE 4 Summary of Existing and Future Vehicle Miles Traveled and Service Population

Metric/ Variable	Existing	2030 Cumulative with NBPP	Increase with NBPP
Total VMT	1,001,640	1,655,690	65%
Population	760	18,000	2,268%

Consistency with Bay Area Clean Air Plan Control Measures

Consistency of the North Bayshore Precise Plan (NBPP) with Clean Air Plan control measures is demonstrated by assessing whether the proposed Plan implements all of the applicable Clean Air Plan control measures. The 2010 Clean Air Plan includes 55 control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. The control measures are divided into five categories that include:

- 18 measures to reduce stationary and area sources;
- 10 mobile source measures;
- 17 transportation control measures;
- Six land use and local impact measures; and
- Four energy and climate measures.

In developing the control strategy, BAAQMD identified the full range of tools and resources available, both regulatory and non-regulatory, to develop each measure. Implementation of each control measure will rely on some combination of the following:

- Adoption and enforcement of rules to reduce emissions from stationary sources, area sources, and indirect sources.
- Revisions to the BAAQMD's permitting requirements for stationary sources.
- Enforcement of CARB rules to reduce emissions from heavy-duty diesel engines.
- Allocation of grants and other funding by the Air District and/or partner agencies.
- Promotion of best policies and practices that can be implemented by local agencies through guidance documents, model ordinances, and other measures.
- Partnerships with local governments, other public agencies, the business community, non-profits, and other groups.
- Public outreach and education.
- Enhanced air quality monitoring.
- Development of land use guidance and CEQA guidelines, and Air District review and comment on Bay Area projects pursuant to CEQA.

- Leadership and advocacy.

This approach relies upon lead agencies to assist in implementing some of the control measures. A key tool for local agency implementation is the development of land use policies and implementing measures that address new development or redevelopment in local communities.

The BAAQMD, with assistance from ABAG and MTC, has prepared and implemented the Clean Air Plan to meet the applicable laws, regulations, and programs. The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. The BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality impacts. In formulating compliance strategies, BAAQMD relies on planned land uses established by local general plans. Land use planning affects vehicle travel, which in turn affects region-wide emissions of air pollutants and GHG.

The Guidelines set forth criteria for determining consistency with the Clean Air Plan. In general a plan is considered consistent if a) the plan supports the primary goals of the Clean Air Plan; b) includes control measures; and c) does not interfere with implementation of the Clean Air Plan measures. The NBPP would be consistent with Clean Air Plan measures intended to reduce automobile use and conserve energy, which are discussed below. Table 5 lists the relevant Clean Air Plan policies to the NBPP and indicates consistency with the policies.

TABLE 5 BAAQMD Control Strategy Measures

BAAQMD Control Strategy Measures	Consistency
Transportation Control Measures	
TCM B-2: Improve Transit Efficiency	Consistent While this is mostly a regionally implemented TCM, the NBPP would improve connectivity to the region and City through investments in non-automobile infrastructure and transportation demand management measures promoting transit use, walking and biking. Improved transportation services would connect to the Mountain View Transit Center and other City and regional destinations.

BAAQMD Control Strategy Measures	Consistency
TCM C-1: Support Voluntary Employer-Based Trip Reduction Program	Consistent The City has an aggressive drive-alone rate 45 percent by 2030 for North Bayshore. To achieve this goal, the Precise Plan would promote the use of transit, carpools, walking and biking in the area. From priority pedestrian and bicycle networks to TDM programs, the NBPP would make it easier, more comfortable, and more efficient for employees and residents to walk, bike, carpool, or use transit. The NBPP acknowledges that businesses should continue to lead the way with innovative vehicle trip reduction strategies. The TMA would oversee coordinating and expanding employer-sponsored shuttles.
TCM C-2: Safe Routes to School and Safe Routes to Transit	Consistent The NBPP would require that developers ensure access to school through support of Safe Routes to Schools programs. Neighborhoods would be close to transit facilities.
TCM C-3: Promote Rideshare Services and Incentives	Consistent The City has an aggressive drive-alone rate 45 percent by 2030 for North Bayshore. To achieve this goal, the Precise Plan would promote the use of transit, carpools, walking and biking in the area. From priority pedestrian and bicycle networks to TDM programs, the NBPP would make it easier, more comfortable, and more efficient for employees and residents to walk, bike, carpool, or use transit. The NBPP acknowledges that businesses should continue to lead the way with innovative vehicle trip reduction strategies.
TCM C-4: Conduct Public Outreach	Consistent The NBPP would include TDM strategies to reduce auto trips and vehicle miles traveled by increasing travel options and providing information to encourage and help individuals modify their travel behavior. The City may implement a congestion pricing system and, if so, community outreach would be required.

BAAQMD Control Strategy Measures	Consistency
TCM C-5: Promote Smart Driving/Speed Moderation	Consistent Under the NBPP, neighborhood streets, access streets, and service streets are designated as "shared" streets and will be designed for both cards and bicycles to share the road at a more moderate speed.
TCM D-1: Improve Bicycle Access and Facilities	Consistent The NBPP would include new complete mixed-use neighborhoods within comfortable walking distance to services and open space. Neighborhoods are also close to bicycle and transit facilities to make it easy for residences to live in North Bayshore without a car.
TCM D-2: Improve Pedestrian Access and Facilities	Consistent The NBPP would include new complete mixed-use neighborhoods within comfortable walking distance to services and open space. Neighborhoods are also close to bicycle and transit facilities to make it easy for residences to live in North Bayshore without a car. North Bayshore's large blocks would be broken down into a more walkable, finer grained set of blocks with new pedestrian and bicycle connections. These new blocks would make it easier, and more comfortable, efficient, and sustainable for residents, employees, and visitors to move around.
TCM D-3: Support Local Land Use Strategies	Consistent The NBPP area would transition into an innovative, sustainable, and complete mixed-use district that protects and stewards biological habitat and open space. It would include new complete mixed-use neighborhoods within comfortable walking distance to services and open space and sustainable transportation systems.
TCM E-2: Parking Pricing and Management Strategies	Consistent The NBPP would improve connectivity to the region and City through investments in non-automobile infrastructure and transportation demand management measures promoting transit use, walking and biking. The Plan would encourage smaller units to unbundle parking costs from the housing unit costs. Shared parking will also be implemented.

BAAQMD Control Strategy Measures	Consistency
Land Use and Local Impact Control Measures	
LUM 3: Enhanced CEQA Program	Consistent While this TCM addresses BAAQMD actions, the City requires the appropriate air quality evaluation of projects during CEQA review using the BAAQMD CEQA Air Quality Guidelines.
LUM 5: Reduce Risk in Impacted Communities	This issue is addressed in this EIR, in which the impact of existing or new TAC sources upon sensitive receptors is evaluated and mitigation measures to reduce any substantial TAC exposures are identified.
Energy and Climate Measures	
ECM 1: Energy Efficiency	Consistent Environmental sustainability will be implemented by building-, site-, and district-scale improvements. Strategies will enable the City and North Bayshore to proactively address climate change, sea level rise, and water demand reduction strategies, for example. The Plan includes an Environmental Sustainability Framework which builds upon the Environmental Sustainability Action Plan, the Mountain View Green Building Code, and the Greenhouse Gas Reduction Program and new development would incorporate highly-sustainable design features and materials. For example, the Plan includes FAR incentives for buildings to meet LEED Platinum or zero net energy.
ECM 2: Renewable Energy	Consistent Under the NBPP, new construction and renovations should offset a proportion of building energy use with on-site renewable energy. In addition, all construction shall be designed to be solar ready and electric vehicle ready.
ECM 3: Urban Heat Island Mitigation	Consistent Under the NBPP, new construction, additions and alterations should use cool exterior siding, roofing, and paving material with relatively high solar reflectivity and shading to reduce solar heat gain. Parking lots shall implement a combination of strategies to reduce the heat island effect.
ECM 4: Tree-Planting	Consistent The NBPP would include provisions for street tree plantings in 6.4, Streetscape Design.

As indicated in Table 5, the NBPP would include implementing policies and measures that are consistent with the applicable Clean Air Plan control measures. In addition, VMT growth in the Plan Area would not outpace population growth. Therefore, this impact would be considered less than significant.

Impact 2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Implementation of the NBPP would result in short-term emissions from construction activities associated with subsequent development, including site grading, asphalt paving, building construction, and architectural coating. Emissions commonly associated with construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips. During construction, fugitive dust, the dominant source of PM_{10} and $PM_{2.5}$ emissions, is generated when wheels or blades disturb surface materials. Uncontrolled dust from construction can become a nuisance and potential health hazard to those living and working nearby. The potential health risk impact from construction is addressed in Impact 4.

Demolition and renovation of buildings can also generate PM_{10} and $PM_{2.5}$ emissions. Off-road construction equipment is often diesel-powered and can be a substantial source of NO_X emissions, in addition to PM_{10} and $PM_{2.5}$ emissions. Worker commute trips and architectural coatings are dominant sources of ROG emissions. The BAAQMD CEQA Air Quality Guidelines do not identify plan level thresholds that apply to construction. Although construction activities at individual project sites are expected to occur during a relatively short time period, the combination of temporary dust from activities and diesel exhaust from construction equipment poses both a health and nuisance impact to nearby receptors. In addition, NO_X emissions during grading and soil import/export for large projects may exceed the BAAQMD NO_X emission thresholds. Without application of appropriate control measures to reduce construction dust and exhaust, construction period impacts would be considered a potentially significant impact. Implementation of Mitigation Measure AQ-1 would reduce this impact to less than significant.

Mitigation Measure AQ-1: Implement BAAQMD-Recommended Measures to Control Particulate Matter Emissions during Construction. Measures to reduce diesel particulate matter (DPM) and PM_{10} from construction are recommended to ensure that short-term health impacts to nearby sensitive receptors are avoided.

Dust (PM_{10}) Control Measures:

- Water all active construction areas at least twice daily and more often during windy periods. Active areas adjacent to residences should be kept damp at all times.
- Cover all hauling trucks or maintain at least two feet of freeboard.
- Pave, apply water at least twice daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas.
- Sweep daily (with water sweepers) all paved access roads, parking areas, and staging areas and sweep streets daily (with water sweepers) if visible soil material is deposited onto the adjacent roads.
- Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (i.e., previously-graded areas that are inactive for 10 days or more).
- Enclose, cover, water twice daily, or apply (non-toxic) soil binders to exposed stockpiles.
- Limit traffic speeds on any unpaved roads to 15 mph.
- Replant vegetation in disturbed areas as quickly as possible.
- Suspend construction activities that cause visible dust plumes to extend beyond the construction site.
- Post a publically visible sign(s) with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Additional measures to reduce exhaust emissions from large construction projects:

- The developer or contractor shall provide a plan for approval by the City or BAAQMD demonstrating that the heavy-duty (>50 horsepower) off-road vehicles to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20 percent NO_X reduction and 45 percent particulate reduction compared to the most recent CARB fleet average for the year 2011.
- Clear signage at all construction sites will be posted indicating that diesel equipment standing idle for more than five minutes shall be turned off. This would include trucks waiting to deliver or receive soil, aggregate, or other bulk materials. Rotating drum concrete trucks could keep their engines running continuously as long as they were onsite or adjacent to the construction site.

- The contractor shall install temporary electrical service whenever possible to avoid the need for independently powered equipment (e.g. compressors).
- Properly tune and maintain equipment for low emissions.

Additionally, implementation of the NBPP would result in long-term area and mobile source emissions from operation and use of subsequent development. Implementation of the NBPP could include stationary sources of pollutants that would be required to obtain permits to operate in compliance with BAAQMD rules. These sources include, but are not limited to, gasoline stations, dry cleaners, internal combustion engines, and surface coating operations. The permit process ensures that these sources would be equipped with the required emission controls and that, individually, these sources would result in a less than significant impact.

As discussed above, the BAAQMD Air Quality Guidelines do not have thresholds related to direct and indirect regional criteria pollutant emissions resulting from plan implementation. The BAAQMD CEQA Air Quality Guidelines only require emissions computations for project-level analysis. From a planning standpoint, this impact would be considered less than significant, since the NBPP would not cause significant increases in vehicle trips compared to population growth and would not interfere with Clean Air Plan control measures. However, for informational purposes, estimated operational period emissions in tons per year and pounds per day are summarized in Table 6. These emissions were computed using the same CalEEMod runs and mobile emissions methodology that were used to assess GHG emissions, described under Impact 6. *Attachment 1* contains the CalEEMod output data and *Attachment 2* contains the CARB EMFAC2014 emission factors, VMT-by-speed-bin calculations and overall mobile emissions calculations.

TABLE 6 2030 Operational Air Pollutant Emissions

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
Proposed NBPP Operational Emissions (tons)	157.30 tons	371.92 tons	86.19 tons	20.96 tons
Existing Operational Emissions (tons)	72.81 tons	246.63 tons	58.17 tons	13.16 tons
Net Operational Emissions (tons)	84.49 tons	125.29 tons	28.02 tons	7.80 tons
Average Daily Net Operational Emissions (pounds)[1]	463.0 lbs.	686.5 lbs.	153.5 lbs.	42.7 lbs.
Notes: [1] Assumes 365-day operation.				

Impact 3: Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Monitoring data from all ambient air quality monitoring stations in the Bay Area indicate that existing carbon monoxide levels are currently below national and California ambient air quality standards. Monitored CO levels have decreased substantially since 1990 as newer vehicles with greatly improved exhaust emission control systems have replaced older vehicles. The Bay Area has been designated as an attainment area for the CO standards. The highest measured levels in Cupertino (the closest monitoring stations to the Planning Area) during the past five years are less than 1.0 ppm for 8-hour averaging periods, compared with State and federal criteria of 9.0 ppm.

Even though current CO levels in the Bay Area are well below ambient air quality standards, and there have been no exceedances of CO standards in the Bay Area since 1991, elevated levels of CO still warrant analysis. CO hotspots (occurrences of localized high CO concentrations) could still occur near busy congested intersections. Recognizing the relatively low CO concentrations experienced in the Bay Area, the BAAQMD's CEQA Air Quality Guidelines state that a project would have a less-than-significant impact if it would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour. 2030 NBPP peak hour traffic volumes would be far less. Since intersections affected by the project would have volumes less than the threshold of 44,000 vehicles per hour, the impact of the project related to localized CO concentrations would therefore be less than significant.

Impact 4: Expose project sensitive receptors to substantial pollutant concentrations?

Subsequent land use activities associated with implementation of the NBPP could potentially include short-term construction sources of TACs and long-term operational sources of TACs, including stationary and mobile sources.

Implementation of the NBPP would result in the potential construction of a variety of projects. This construction would result in short-term emissions of DPM, a TAC. Construction would result in the generation of DPM emissions from the use of off-road diesel equipment required for site grading and excavation, paving, and other construction activities. The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards). Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The calculation of cancer risk associated with exposure to TACs is typically based on a long-term exposure (e.g., 30- or 70-year period). The use of diesel-powered construction equipment, however, would be temporary and episodic and would occur over a relatively large area. Cancer risk and $PM_{2.5}$

exposure would have to be analyzed through project-level analysis to identify the potential for significant impacts and measures to reduce those impacts to less than significant. Health risks associated with temporary construction would, therefore, be considered potentially significant. Implementation of Mitigation Measure AQ-2 would reduce this impact to less than significant.

Mitigation Measure AQ-2 **Implement Appropriate Construction Emissions R Measures.** Construction health risk assessment shall be required on a project-by-project basis, either through screening or refined modeling, to identify impacts and, if necessary, include measures to reduce exposure. Reduction in health risk can be accomplished through, though is not limited to, the following measures:

- Construction equipment selection;
- Use of alternative fuels, engine retrofits, and added exhaust devices;
- Modify construction schedule; and
- Implementation of BAAQMD Basic and/or Additional Construction Mitigation Measures for control of fugitive dust.

Long-Term Operational Sources

According to the BAAQMD CEQA Air Quality Guidelines, for a plan to have a less-than-significant impact with respect to TACs, overlay zones must be established around existing and proposed land uses that would emit these air pollutants. Overlay zones to avoid TAC impacts must be reflected in local plan policies, land use maps, or implementing ordinances.

The BAAQMD CEQA Air Quality Guidelines consider exposure of sensitive receptors to air pollutant levels that result in an unacceptable cancer risk or hazard, to be significant. For cancer risk, which is a concern with DPM and other mobile-source TACs, the BAAQMD Risk Management Policy considers an increased risk of contracting cancer that is 10 in one million chances or greater, to be significant risk for a single source. The BAAQMD CEQA Guidelines also consider exposure to annual $PM_{2.5}$ concentrations that exceed 0.3 micrograms per cubic meter ($\mu g/m^3$) to be significant. Non-cancer risk would be considered significant if the computed Hazard Index is greater than 1.0.[8] For cumulative sources, the BAAQMD CEQA Guidelines consider 100 in one million excess cancer risk, $PM_{2.5}$ concentrations that exceed 0.8 $\mu g/m^3$, and non-cancer Hazard Index greater than 10.0 to be significant.

The North Bayshore Precise Plan Update would permit and facilitate the development of new sensitive receptors, such as new homes, in locations near arterial and collector roadways,

[8] The Hazard Index is the ratio of the computed receptor exposure level to the level known to cause acute or chronic adverse health impacts, as identified by BAAQMD.

highways, and stationary sources of TAC emissions. Screening levels indicate that sensitive receptors within the Planning Area would be exposed to levels of TACs and/or $PM_{2.5}$ that could cause an unacceptable cancer risk or hazard near highways and stationary sources. Though not necessarily a CEQA issue due to the CBIA v. BAAQMD decision, the potential effect of existing TAC sources on future projects is discussed to comply with General Plan Policy INC 20.7 to "protect the public from substantial pollutant concentrations."

TAC sources were identified within a 1,000 foot radius from the Planning Area. These sources include: stationary sources permitted by BAAQMD, roadways with more than 10,000 annual average daily traffic (AADT), and highways or freeways. Then, using the screening analysis tools – the stationary source screening analysis tool, the highway screening analysis tool, and the roadway screening analysis tool – potential risk and hazard impacts were assessed.

Stationary Sources

The Planning Area has numerous permitted stationary sources. These sources are located throughout the Plan Area, but mostly in industrial and commercial areas. The impact of these sources can only be addressed on a project-by-project basis, since impacts are generally localized. To assist lead agencies, BAAQMD has provided a database of permitted sources for each County. The database is contained in a Google Earth tool that allows a user to identify stationary sources within 1,000 feet of a receptor. The database can then be accessed through Google Earth to determine conservative screening levels of cancer risk, hazards and $PM_{2.5}$ concentrations. This allows many of the sources to be screened out of any additional analysis. Stationary sources that show the potential for significant community risk impacts after this first level of review are further analyzed by contacting BAAQMD for additional information and applying distance adjustment factors. A refined modeling analysis would be required if there are sources that still have potentially significant impacts after this level of review. A refined analysis would include dispersion modeling of the source using emissions and source information provided by BAAQMD. If the source still has significant community risk impacts following this level of effort, then risk reduction strategies would have to be implemented by the project on a case-by-case basis, including but not limited to, mechanical air filtration systems. Figure 1 illustrates the approximate location of all permitted stationary sources as reported by BAAQMD that could affect existing and future receptors in the Planning Area. The reported screening risk values are assumed to be at a distance of 50 feet.

When siting new sensitive receptors, the BAAQMD Guidelines advise that lead agencies examine existing or future proposed sources of TAC and/or $PM_{2.5}$ emissions that would adversely affect individuals within the planned project. New residences and sensitive receptors could be located near stationary sources of TACs located throughout the Planning Area, such as gasoline dispensing stations, emergency back-up diesel generators, and dry cleaners. Without

proper setbacks or mitigation measures, these sources could result in TAC levels that are considered significant for new sensitive receptors.

Gasoline Stations

The Plan Bay Area DEIR[9] recommends a screening setback of 300 feet for large gasoline dispensing facilities (3.6 million gallons of throughput a year) and 50 feet for small facilities.

Emergency Back-Up Generators

Electricity generators that are powered by diesel engines are common. They are typically located at facilities where uninterrupted electricity is necessary. Common facilities include fire and police stations, hospital or medical treatment facilities, pump stations, schools, offices, and data centers. Diesel engines powering these generators are regulated by BAAQMD and CARB. CARB has established strict emissions limits and operating restrictions for engines larger than 50 horsepower. BAAQMD has developed criteria (Regulation 2 Rule 5) for approval of projects with new or modified emission sources of TACs. As a result, all new engines have very localized impacts and would not be permitted if they would cause significant cancer risks or hazards. Existing engines are permitted to operate for a maximum of 50 hours per year for maintenance or routine testing.

Moffett Airfield

Located to the east of the Plan Area, Moffet Federal Airfield contains multiple sources of TACs. The Plan Bay Area DEIR does not provide a screening distance for airfield sources and would require project-specific review.

Screening Setback Distances

Specific stationary sources in the Plan Area were identified using BAAQMD's Google Earth *Stationary Source Screening Analysis Tool*, as described above. The BAAQMD data provide the screening risk, hazard and $PM_{2.5}$ concentration levels associated with each source. Table 7 identifies the approximate setback distances from stationary sources that have potentially significant impacts using the screening data provided by BAAQMD and the *Cancer Risk and Hazard Distance Adjustment Multiplier* tool. However, refined analysis of the effects from these sources through emissions and dispersion modeling would likely show lower TAC exposure. It should be noted that certain stationary sources could be removed as part of implementation of the Precise Plan, thus removing their associated community risk.

[9] Association of Bay Area Governments, Metropolitan Transportation Commission, 2013. *Draft Plan Bay Area Environmental Impact Report*. State Clearinghouse No. 2012062029. April.

Instances where $PM_{2.5}$ screening concentrations exceed the threshold have been marked in Table 7 as "project-specific analysis required." For example, the City of Mountain View Shoreline Landfill (Source 2740) is reported as having a screening $PM_{2.5}$ concentration of 42.8 $\mu g/m^3$ at 50 feet, or 1.7 $\mu g/m^3$ at 918 feet (which is the greatest distance contained in the *Cancer Risk and Hazard Distance Adjustment Multiplier* tool), which would still be potentially significant. Stationary sources that do not have potentially significant impacts at 50 feet or greater were not included in Table 7. Additionally, BAAQMD was contacted through a Stationary Source Inquiry Form (SSIF) to determine which facilities are still operational.[10] In cases where BAAQMD has indicated closed facilities, these were not included in the table. Stationary sources are generally reported in Table 7 from west to east and north to south across the Plan Area. Figure 1 shows the approximate locations of Plan Area or nearby stationary TAC sources with potentially significant risk and their respective screening buffer zones.

TABLE 7 Approximate Screening Setback Distances for Stationary TAC Sources

Facility	Source	Screening Distance in Feet to Cancer Risk Threshold	Screening Distance in Feet to $PM_{2.5}$ Threshold
Space Systems/Loral, Plant 13188 2288 Charleston Road	Standby diesel engine, solvents	525	<50
City of Mountain View Fleet Services, Plant 14211 Amphitheatre Parkway A	Three standby diesel engines	164	<50
City of Mountain View Shoreline Landfill, Plant 2740, 2600 Shoreline Boulevard	Landfill gas collection system, standby diesel engine	656	Project-specific analysis required
American Century Investments, Plant 19229, 1665 Charleston Road	Standby diesel engine	164	<50
Google Inc., Plant 15982, 1600 Amphitheatre Parkway	Multiple standby diesel engines	394	<50
Shoreline Amphitheatre, Plant 2561, One Amphitheatre Parkway	Landfill gas collection system, standby diesel engine	262	426
Layer42 Net, Inc., Plant 20089, 1555 Plymouth Street	Two standby diesel engines	230	<50
City of Mountain View Fleet Services, Plant 14205, 2100 Crittenden Lane	Standby diesel engine	164	<50
Google, Inc., Plant 15982 (formerly Alexa Pharmaceuticals, Plant 18747),	Multiple standby diesel engines	230	<50

[10] Correspondence between Alison Kirk, BAAQMD and Josh Carman, Illingworth and Rodkin, December 22, 2016.

Facility	Source	Screening Distance in Feet to Cancer Risk Threshold	Screening Distance in Feet to $PM_{2.5}$ Threshold
2023 Stierlin Court			
City of Mountain View Fleet Services, Plant 14212, End of Charleston Road	Two standby diesel engines	197	<50
Santa Clara Valley Transportation Authority, Plant 13038, 1235 L'Avenida	Standby diesel engine, paint applications	131	<50

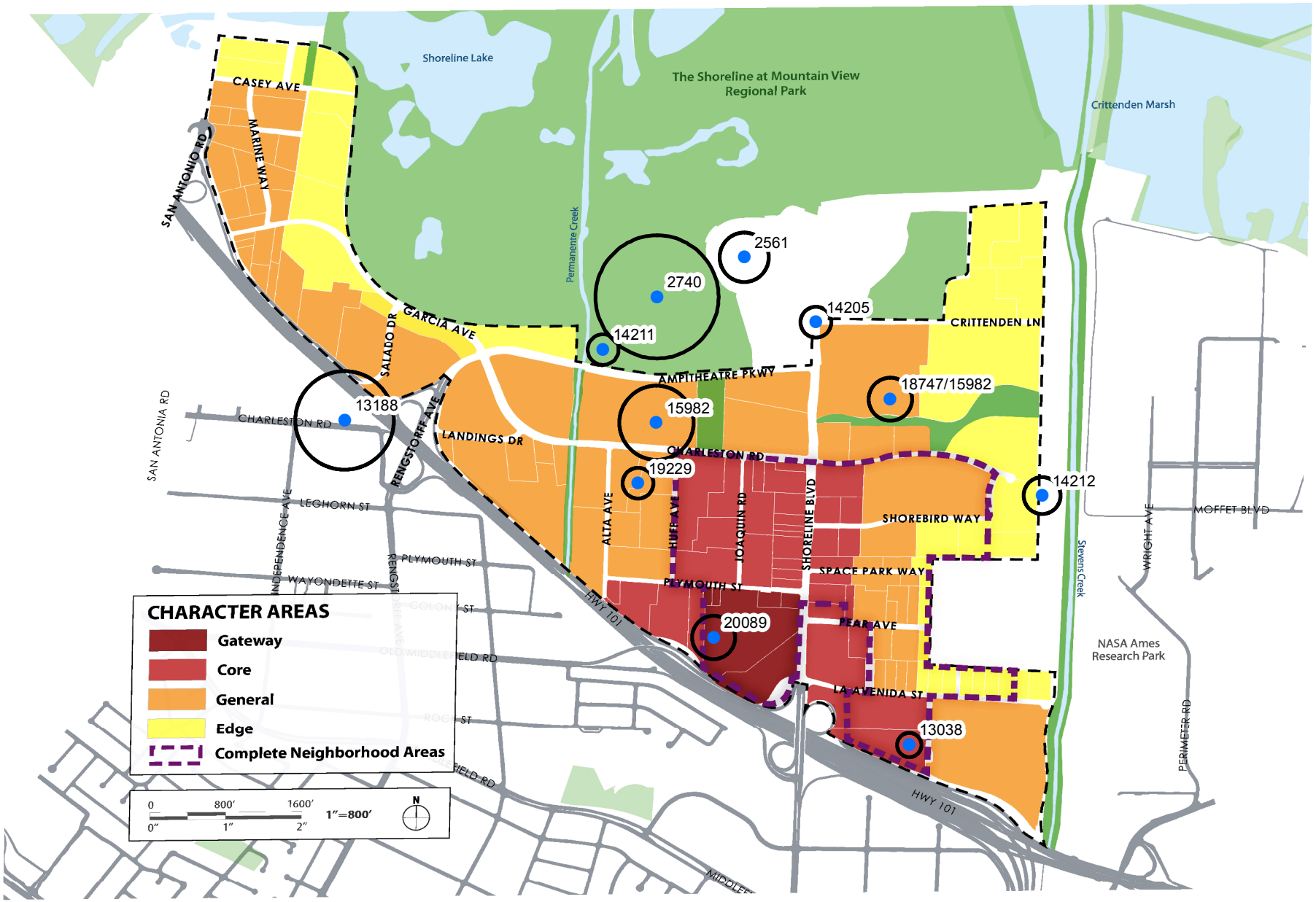


Figure 1. Approximate Location of Plan Area or Nearby Stationary Sources with Potentially Significant Risk

Legend

- Sources
- Buffer

N

Surface Streets

Traffic on high volume roadways (such as San Antonio Road, Amphitheatre Parkway, N. Shoreline Boulevard, and Charleston Road) is a source of TAC emissions that may adversely affect sensitive receptors in close proximity to the roadway. For roadways, BAAQMD has provided the *Roadway Screening Analysis Calculator* to determine if roadways with traffic volumes of over 10,000 vehicles per day may have a significant effect. Two adjustments were made to the cancer risk predictions made by this calculator: (1) adjustment for latest vehicle emissions rates and (2) adjustment of cancer risk to reflect new OEHHA guidance (see *Attachment 1*).

The calculator uses EMFAC2011 emission rates for the year 2014. Overall, emission rates will decrease by the time the project is constructed and occupied. In addition, a new version of the emissions factor model, EMFAC2014 is available. This version predicts lower emission rates. An adjustment factor of 0.5 was developed by comparing emission rates of total organic gases (TOG) for running exhaust and running losses developed using EMFAC2011 for year 2014 and those from EMFAC2014 for the year 2018. Operations after the year 2018 would result in lower risk values.

The predicted cancer risk was then adjusted using a factor of 1.3744 to account for new OEHHA guidance. This factor was provided by BAAQMD for use with their CEQA screening tools that are used to predict cancer risk.[11] Table 8 identifies the approximate screening setback distance to the threshold, using the roadway calculator along with cumulative plus NBPP traffic data (assuming that average daily traffic – ADT – is approximately ten times p.m. peak hour volumes) and roadway direction.

TABLE 8 Approximate Screening Setback Distances for Surface Street TAC Sources

Source	Distance in Feet to Cancer Risk Threshold	Distance in Feet to $PM_{2.5}$ Threshold
San Antonio Road (east of)	35	35
Charleston Road (north of)	10	10
Charleston Road (south of)	15	15
Amphitheatre Parkway (south of)	55	65
N. Shoreline Boulevard (east of)	125	125
N. Shoreline Boulevard (west of)	65	45

[11] Correspondence with Alison Kirk, BAAQMD, November 23, 2015.

US Highway 101

US Highway is adjacent to the southern boundary of the Plan Area. The primary source of TAC emissions is from diesel trucks that emit DPM. Additional TAC emissions come from gasoline fueled vehicles which emit organic TAC compounds. $PM_{2.5}$, which is also of concern, is emitted from vehicle exhaust, tire and brake wear, and from re-suspended roadway dust. A review of the traffic information reported by Caltrans for 2015 indicates that in the vicinity of the project area, US Highway 101 has 227,000 ADT. About 4.5 percent of these trips are made by trucks.

To assess potential health impacts in the Plan Area from traffic on US Highway 101, a refined analysis was conducted to evaluate potential cancer risks and $PM_{2.5}$ concentrations from traffic. The refined analysis involved developing traffic emissions for the traffic volume and mix of vehicle types on US Highway 101. Then using these emissions as input to an atmospheric dispersion model for roadways, TAC and $PM_{2.5}$ concentrations were calculated throughout the Plan Area. Based on the modeled concentrations, potential exposure to TACs was calculated and associated cancer risks were computed.

Vehicle emissions were calculated using emission factors for traffic on US Highway 101 using CARB's EMFAC2014 model. Default EMFAC2014 vehicle model year distributions for Santa Clara County were used in calculating emissions for 2030. Average daily traffic volumes and truck percentages were based on Caltrans data for US Highway 101 for 2013.[12] Traffic volumes were assumed to increase 1 percent per year. Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,[13] which were then applied to the average daily traffic volumes to obtain estimated hourly traffic volumes and emissions for US Highway 101. The modeling was conducted conservatively assuming emissions for the year 2030. While traffic may increase in the future, vehicle emission rates would continue to decrease at a greater rate than the traffic increase.

For all hours of the day, other than during peak a.m. and p.m. periods, an average speed of 65 mph was assumed for all vehicles other than heavy duty trucks which were assumed to travel at a speed of 60 mph. Based on traffic data from the Santa Clara Valley Transportation Authority's 2014 Monitoring and Conformance Report, traffic speeds during the peak a.m. and p.m. periods were identified.[14] For two hours during the peak a.m. and p.m. periods, average travel speeds of 25 mph and 45 mph were used for north-bound and south-bound traffic, respectively.

[12] Caltrans, 2016. *2015 Annual Average Daily Truck Traffic on the California State Highway System*. Available: http://www.dot.ca.gov/trafficops/census/

[13] The Burden output from EMFAC2007, CARB's previous version of the EMFAC model, was used for this since the current web-based version of EMFAC2014 does not include Burden type output with hour by hour traffic volume information.

[14] Santa Clara Valley Transportation Authority. *Santa Clara County Annual Monitoring and Conformance Report 2015*.

Dispersion modeling of DPM, $PM_{2.5}$, and organic TAC emissions was conducted using the CAL3QHCR model, which is recommended by the BAAQMD for this type of analysis.[15] North- and south-bound traffic on US Highway 101 in the vicinity of the Plan Area was evaluated with the model. A five-year data set of hourly meteorological data (1968 - 1972) from Moffett Field, formatted for use with the CAL3QHCR model by the BAAQMD, was used in the modeling. Other inputs to the model included road geometry, hourly traffic volumes, and emission factors. TAC and $PM_{2.5}$ concentrations were calculated in the Plan Area using a grid of receptors throughout the Plan Area. A receptor height of 1.5 meters (about 5 feet) was used for all receptors to represent the breathing heights of potential residents in the Plan Area.

Increased cancer risks were calculated using the modeled maximum annual DPM and TOG concentrations, and BAAQMD recommended risk assessment methods.[16] These methods evaluate cancer risk due to a 30 year exposure period and incorporate age sensitivity factors methods for infant (third trimester to two years of age) and children (two years of age to 16 years). The increased cancer risks in the Plan Area from traffic on US Highway 101 were calculated to be less than the BAAQMD significance threshold of an increased cancer risk of more than 10 in one million. The maximum infant cancer risk in the Plan Area from US Highway 101 was 3.7 in one million.

In addition to evaluating the cancer risks from TACs, potential $PM_{2.5}$ impacts from vehicle traffic were evaluated. Annual average $PM_{2.5}$ concentrations were computed at each receptor location. To evaluate potential non-cancer health effects due to $PM_{2.5}$, the BAAQMD adopted a significance threshold of an annual average $PM_{2.5}$ concentration greater than 0.3 $\mu g/m^3$. Figure 2 shows the Plan Area and contours lines of maximum annual $PM_{2.5}$ concentration. The contour lines where the $PM_{2.5}$ concentrations are at the BAAQMD significant impact level of 0.3 $\mu g/m^3$ or higher are highlighted in the figure. For distances within about 650 feet from US Highway 101, potentially significant $PM_{2.5}$ concentrations would occur.

Summary

The NBPP would allow growth of new residential land uses that would be sensitive receptors and new non-residential land uses that are a potential for new emissions sources. Typically, these new sources would be evaluated through the BAAQMD permit process or the CEQA process to identify and mitigate any significant exposures. However, some sources that would not undergo such a review, such as truck loading docks or truck parking areas, may have the potential to cause significant increases in TAC exposure. This impact would be potentially significant. Implementation of Mitigation Measure AQ-3 would reduce this impact to a level of less than significant.

[15] BAAQMD, 2012. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May.

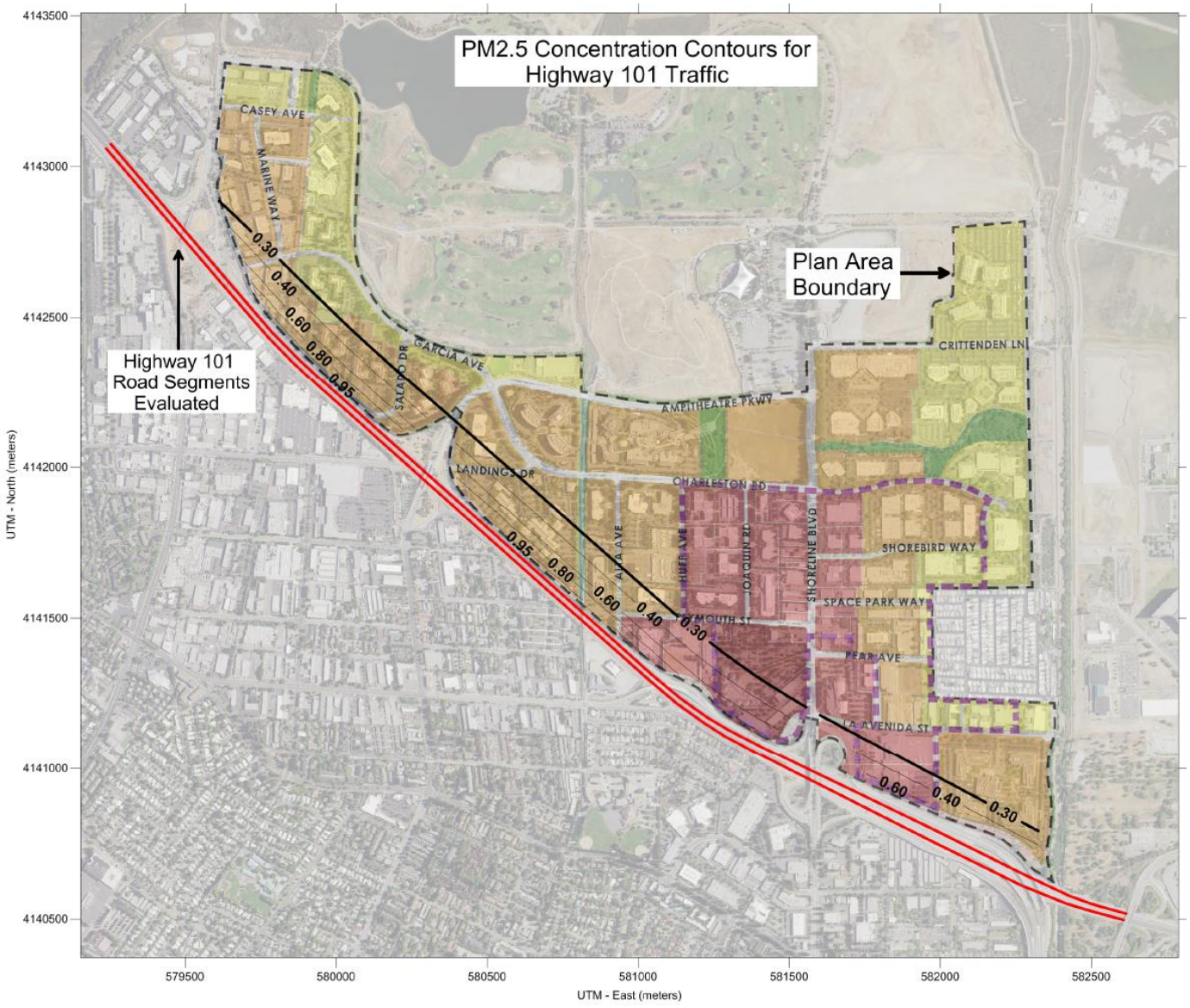
[16] BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. January.

Mitigation Measure AQ-3 The following measures shall be utilized in site planning and building designs to reduce TAC and $PM_{2.5}$ exposure where new receptors are located within the setback distances identified above:

- Future development under the NBPP that includes sensitive receptors (such as schools, hospitals, daycare centers, or retirement homes) located within the setback distances from US Highway 101, local roadways, and stationary sources shall require site-specific analysis to quantify the level of TAC and $PM_{2.5}$ exposure. This analysis shall be conducted following procedures outlined by BAAQMD. If the site-specific analysis reveals significant exposures, such as cancer risk greater than 10 in one million acute or chronic hazards with a Hazard Index greater than 1.0, or annual $PM_{2.5}$ exposures greater than 0.3 $\mu g/m^3$, or a significant cumulative health risk in terms of excess cancer risk greater than 100 in one million, acute or chronic hazards with a Hazard Index greater than 10.0, or annual $PM_{2.5}$ exposures greater than 0.8 $\mu g/m^3$, additional measures such as those detailed below shall be employed to reduce the risk to below the threshold. If this is not possible, the sensitive receptors shall be relocated.
- Future developments that would include TAC sources would be evaluated through the CEQA process or BAAQMD permit process to ensure that they do not cause a significant health risk in terms of excess cancer risk greater than 10 in one million, acute or chronic hazards with a Hazard Index greater than 1.0, or annual $PM_{2.5}$ exposures greater than 0.3 $\mu g/m^3$, or a significant cumulative health risk in terms of excess cancer risk greater than 100 in one million, acute or chronic hazards with a Hazard Index greater than 10.0, or annual $PM_{2.5}$ exposures greater than 0.8 $\mu g/m^3$.
- For significant cancer risk exposure, as defined by BAAQMD, indoor air filtration systems shall be installed to effectively reduce particulate levels to a less-than-significant level. Project sponsors shall submit performance specifications and design details to demonstrate that lifetime residential exposures would result in less-than-significant cancer risks (less than 10 in one million chances or 100 in one million for cumulative sources), Hazard Index or $PM_{2.5}$ concentration.
- Air filtration systems installed shall be rated MERV-13 or higher and a maintenance plan for the air filtration system shall be implemented.
- Trees and/or vegetation shall be planted between sensitive receptors and pollution sources, if feasible. Trees that are best suited to trapping particulate matter shall be planted, including the following: Pine (Pinus nigra var. maritime), Cypress (X Cupressocyparis leylandii), Hybrid poplar (Populus deltoids X trichocarpa), and Redwoods (Sequoia sempervirens).
- Sites shall be designed to locate sensitive receptors as far as possible from any freeways, roadways, refineries, diesel generators, distribution centers, and rail lines.

- Operable windows, balconies, and building air intakes shall be located as far away from these sources as feasible. If near a distribution center, residents shall not be located immediately adjacent to a loading dock or where trucks concentrate to deliver goods.

Figure 2. Increased PM2.5 Concentrations from US Highway 101 Traffic



5: Create objectionable odors affecting a substantial number of people?

Subsequent land use activities associated with implementation of the NBPP could allow for the development of uses that have the potential to produce odorous emissions either during the construction or operation of future development. Additionally, subsequent land use activities may allow for the construction of sensitive land uses (i.e., residential development, schools, parks, offices, etc.) near existing or future sources of odorous emissions. Future construction activities could result in odorous emissions from diesel exhaust associated with construction equipment. However, because of the temporary nature of these emissions and the highly diffusive properties of diesel exhaust, exposure of sensitive receptors to these emissions would be limited.

Significant sources of offending odors are typically identified based on complaint histories received and compiled by BAAQMD. It is difficult to identify sources of odors without requesting information by specific facility from BAAQMD. Typical large sources of odors that result in complaints are wastewater treatment facilities, landfills including composting operations, food processing facilities, and chemical plants. Other sources, such as restaurants, paint or body shops, and coffee roasters typically result in localized sources of odors. Table 9 identifies screening buffers included in the BAAQMD CEQA Air Quality Guidelines that could apply to the Plan Area.

TABLE 9 Odor Screening Distances for the NBPP

Land Use/Type of Operation	Project Screening Distance
Wastewater Treatment Plant	2 miles
Wastewater Pumping Facilities	1 mile
Sanitary Landfill	2 miles
Transfer Station	1 mile
Composting Facility	1 mile
Asphalt Batch Plant	2 miles
Chemical Manufacturing	2 miles
Fiberglass Manufacturing	1 mile
Painting/Coating Operations	1 mile
Coffee Roaster	1 mile
Food Processing Facility	1 mile
Green Waste and Recycling Operations	1 mile

According to the BAAQMD CEQA Guidelines, an odor source with five or more confirmed complaints per year averaged over three years is considered to have a significant impact. Future construction activities in the Precise Plan area could result in odorous emissions from diesel exhaust associated with construction equipment. Because of the temporary nature of these emissions and the highly diffusive properties of diesel exhaust, exposure of sensitive receptors to these emissions would be limited.

Subsequent land use activities associated with implementation of the Precise Plan could allow for the development of uses that have the potential to produce odorous emissions either during the construction or operation of future development. Additionally, subsequent land use activities may allow for the construction of sensitive land uses (i.e., residential development, schools, parks, offices, etc.) near existing or future sources of odorous emissions. However, significant sources of odors are not proposed as part of the Precise Plan. Further, the City would implement General Plan Policy INC 20.8 as part of the development review process to ensure that residents are protected from odors that might be associated with implementation of the Precise Plan.

Impact 6: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

The BAAQMD CEQA Air Quality Guidelines contain methodology and thresholds of significance for evaluating GHG emissions from land use type projects. As discussed above, the City of Mountain View has adopted qualified GHG reduction program (GGRP). This program meets the requirements of a GHG Reduction Strategy under State CEQA Guidelines Section 15183.5. The program includes a goal to improve communitywide emissions efficiency (per-service population – residents and full-time employees) by 30 percent over 2005 levels by 2030. The City intends to achieve GHG reductions from new land use developments to close the gap between projected regional emissions with AB 32 scoping plan measures and the AB 32 targets. The City suggests applying a 2030 GHG efficiency threshold of 4.5 MT per year per service population (S.P.). Projects with emissions above the threshold would be considered to have a cumulatively significant impact.

GHG emissions were computed for the full build-out traffic scenario, with operational emissions in 2030 using the California Emissions Estimator Model Version 2016.3.1 (CalEEMod) and EMFAC2014. NBPP land use types and size were input to CalEEMod. CalEEMod predicts emissions of GHG in the form of equivalent carbon dioxide emissions or CO_2e. Since daily trip generation rates by land use type were not available, mobile emissions were calculated using the VMT-by-speed-bin data and the CARB EMFAC2014 emissions factor model.

Construction Period Emissions

The BAAQMD does not have an adopted Threshold of Significance for construction-related GHG emissions. BAAQMD encourages the incorporation of best management practices to reduce GHG emissions during construction where feasible and applicable, including, but not limited to: using alternative-fueled (e.g., biodiesel, electric) construction vehicles/equipment for at least 15 percent of the fleet, using local building materials of at least 10 percent, and recycling or reusing at least 50 percent of construction waste or demolition materials. The NBPP would require that all new construction, additions, and alterations recycle or salvage 65 percent of nonhazardous construction and demolition debris generated at the site.

Operational Period Emissions

The CalEEMod model was used to predict GHG emissions associated with operation of fully developed sites under the NBPP aside from mobile emissions. Daily trip generation rates were not available by each specific land use proposed under the Plan, so the VMT-by-speed bin data and the CARB EMFAC2014 emissions factor model was used to estimate vehicle emissions associated with operation of the NBPP. Adjustments to the modeling are described below. CalEEMod output worksheets are provided in *Attachment 1*.

Year of Analysis

Three analysis years were used for modeling: an existing 2015 run and two 2030 runs. Of the 2030 runs, one was the NBPP 2030 scenario and the other was the proposed (smaller unit residential) NBPP 2030.

Land Use Descriptions

The following land uses types and sizes were input to CalEEMod:

Existing 2015

- 1 dwelling unit entered as "Single Family Housing;"
- 362 dwelling units entered as "Apartments Low Rise;"
- 68,964 square feet (sf) "Strip Mall"/commercial/retail;
- 412,910 sf entered as "General Office Building;"
- 6,374,650 sf entered as "Research & Development;"
- 100 seats entered as "Place of Worship;"
- 249,521 sf entered as "General Light Industry;" and
- 90,730 sf entered as "Free Standing Discount Store."

NBPP 2030

- 1 dwelling unit entered as “Single Family Housing;”
- 362 dwelling units entered as “Apartments Low Rise;”
- 132,481 square feet (sf) “Strip Mall”/commercial/retail;
- 4,844,563 sf entered as “General Office Building;”
- 4,724,329 sf entered as “Research & Development;”
- 100 seats entered as “Place of Worship;”
- 221,897 sf entered as “General Light Industry;”
- 400 rooms entered as “Motel;” and
- 39,932 sf entered as “Free Standing Discount Store.”

Proposed NBPP 2030

- 1 dwelling unit entered as “Single Family Housing;”
- 10,212 dwelling units entered as “Apartments Low Rise;”
- 192,931 square feet (sf) “Strip Mall”/commercial/retail;
- 5,875,378 sf entered as “General Office Building;”
- 3,834,661 sf entered as “Research & Development;”
- 100 seats entered as “Place of Worship;”
- 137,671 sf entered as “General Light Industry;”
- 400 rooms entered as “Motel;” and
- 24,308 sf entered as “Free Standing Discount Store.”

Mobile Emissions

Since daily trip generation rates by land use type were not available, mobile emissions were calculated using daily vehicle miles traveled (VMT) that were provided in the traffic studies. For each project scenario, the daily VMT was provided, broken down by 5-mph increments or speedbins. These data were combined with vehicle emissions factors for the corresponding speeds using the CARB EMFAC2014 emissions factor model. In addition, the total number of traffic trips were used to estimate additional emissions from vehicle startup conditions. Dust entrainment from vehicles was also computed using methods developed by CARB and US EPA that included silt loading factors specific to Santa Clara County. The VMT estimates were assumed to represent weekday conditions. The CalEEMod modeling defaults for the various land use types were used to develop emission for Saturday and Sunday traffic. The VMT estiamtes for the proposed NBPP include the proposed TDM.

Electricity Generation

Default rates for energy consumption were assumed in the model. CalEEMod has a default rate of 641.3 pounds of CO_2 per megawatt of electricity produced, which is based on PG&E's 2008 emissions rate. The Existing 2015 run PG&E rate was updated to be the most recent rate reported in the California Climate Registry that was for 2013, which is 429.6 pounds of CO_2 per megawatt of electricity produced.[17] For the 2030 runs, emissions rates associated with electricity consumption were adjusted to account for PG&E's projected 2020 CO_2 intensity rate in place of 2030, since 2020 is the latest year published to date. This 2020 rate is based, in part, on the requirement of a renewable energy portfolio standard of 33 percent by the year 2020. The derived 2020 rate for PG&E was estimated at 289.84 pounds of CO_2 per megawatt of electricity delivered and is based on the California Public Utilities Commission (CPUC) GHG Calculator.[18] Default model assumptions for GHG emissions associated with area sources, solid waste generation and water/wastewater use were applied. It should be noted that an agreement was made to sell Mountain View Shoreline Landfill gas produced by the MVSL between the City and Alza Corporation (transferred to Google Inc.) dated September 29, 2004. Google agreed to purchase gas from the City to fuel an electric power generating plant to serve certain buildings owned or leased by Google. The expiration date is fifteen years after the commencement date (2006), but no later than January 1, 2021, with two options to extend the expiration date for five-year periods each. However, for the puproses of this analysis, it is conservatively assumed that electricity gernation would come from PG&E.

Service Population Rate

The service population rate for this NBPP is the annual GHG emissions expressed in metric tons divided by the estimated number of new residents and employees. The estimated 2030 service population for the proposed NBPP is 56,910. For the NBPP 2030 without project, the estimated service population is 38,650. For existing conditions, the estimated service population is 25,600.

GHG Operational Emissions

Table 10 presents the results of the CalEEMod model analysis in terms of annual metric tons of equivalent CO_2e emissions (MT of CO_2e/yr) and service population values. The CalEEMod modeling data are provided in *Attachment 1*.

[17] See Climate Registry most current version of default emissions factors: http://www.theclimateregistry.org/tools-resources/reporting-protocols/general-reporting-protocol. Accessed: October 30, 2015

[18] California Public Utilities Commission's GHG Calculator version 3c, October 7, 2010. Available on-line at: http://ethree.com/public_projects/cpuc2.php. Accessed: June 18, 2015.

As shown in Table 10, 2030 full build-out operation of the NBPP would have annual service population emissions of 5.4 MT of CO_2e/yr/S.P., which would exceed the City GGRP threshold of 4.5 MT of CO_2e/year/S.P. This impact is, therefore, considered potentially significant. There are no additional feasible and reasonable measures beyond those already included in the plan for transportation and energy efficiency, and this impact would be considered *significant and unavoidable*.

TABLE 10 2030 NBPP GHG Emissions (MT of CO_2e)

Source Category	Existing 2015	2030 NBPP	Proposed 2030 NBPP
Area	29	29	812
Energy Consumption	23,098	31,934	44,549
Mobile	151,247	205,034	250,537
Solid Waste Generation	1,362	3,388	6,060
Water Usage	8,041	7,078	8,091
Total	183,777	247,463	310,049
Efficiency Metric	7.2 [1]	6.4 [2]	5.4 [3]
City GGRP 2030 Threshold			4.5 MT CO_2e/year/S.P.

Notes: [1]Based on an existing service population of 25,600, [2]Based on a NBPP 2030 without project service population of 38,650, [3]Based on a total proposed 2030 NBPP service population of 56,910.
GGRP = Greenhouse Gas Reduction Program
S.P. = service population

Attachment 1: CalEEMod Input and Output Worksheets

North Bayshore Precise Plan, Existing

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	412.91	1000sqft	9.48	412,910.00	1027
Research & Development	6,374.65	1000sqft	14.63	6,374,650.00	22194
Place of Worship	100.00	Seat	0.12	5,050.51	10
General Light Industry	249.52	1000sqft	5.73	249,521.00	299
Motel	0.00	Room	0.00	0.00	0
Apartments Mid Rise	362.00	Dwelling Unit	9.53	362,000.00	760
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	2
Free-Standing Discount Store	90.73	1000sqft	2.08	90,730.00	0
Strip Mall	68.96	1000sqft	1.58	68,964.00	227

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	429.6	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Revised CO2 Emission Instensity

Land Use - Assuming the church to have a capacity of 100 seats

Construction Phase - No Construction Emission Modelled

Off-road Equipment -

Off-road Equipment - only operational emission modeled

Trips and VMT -

Demolition -

Vehicle Trips -

Woodstoves - default used, since unknown how many residential units could have woodstoves or fireplaces

Energy Use - default values used

Table Name	Column Name	Default Value	New Value
tblLandUse	BuildingSpaceSquareFeet	249,520.00	249,521.00
tblLandUse	BuildingSpaceSquareFeet	68,960.00	68,964.00
tblLandUse	LandUseSquareFeet	249,520.00	249,521.00
tblLandUse	LandUseSquareFeet	68,960.00	68,964.00
tblLandUse	LotAcreage	146.34	14.63
tblLandUse	Population	0.00	1,027.00
tblLandUse	Population	0.00	22,194.00
tblLandUse	Population	0.00	10.00
tblLandUse	Population	0.00	299.00
tblLandUse	Population	1,035.00	760.00
tblLandUse	Population	3.00	2.00
tblLandUse	Population	0.00	227.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	429.6
tblProjectCharacteristics	OperationalYear	2018	2015

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Area	34.4948	0.0524	3.9739	2.4500e-003		0.1806	0.1806		0.1806	0.1806	16.6306	11.3431	27.9737	0.0317	1.0900e-003	29.0914
Energy	1.0070	9.1429	7.6028	0.0549		0.6958	0.6958		0.6958	0.6958	0.0000	22,962.5481	22,962.5481	1.0683	0.3642	23,097.7960
Mobile	25.4621	94.8778	303.7404	0.6296	48.3143	1.0883	49.4025	12.9420	1.0306	13.9725	0.0000	57,261.7555	57,261.7555	2.8567	0.0000	57,333.1716
Waste						0.0000	0.0000		0.0000	0.0000	549.6610	0.0000	549.6610	32.4840	0.0000	1,361.7618
Water						0.0000	0.0000		0.0000	0.0000	1,047.2880	3,526.6607	4,573.9487	107.8046	2.5891	8,040.6251
Total	**60.9639**	**104.0730**	**315.3171**	**0.6870**	**48.3143**	**1.9646**	**50.2789**	**12.9420**	**1.9070**	**14.8489**	**1,613.5795**	**83,762.3074**	**85,375.8869**	**144.2453**	**2.9545**	**89,862.4459**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	34.4948	0.0524	3.9739	2.4500e-003		0.1806	0.1806		0.1806	0.1806	16.6306	11.3431	27.9737	0.0317	1.0900e-003	29.0914
Energy	1.0070	9.1429	7.6028	0.0549		0.6958	0.6958		0.6958	0.6958	0.0000	22,962.5481	22,962.5481	1.0683	0.3642	23,097.7960
Mobile	25.4621	94.8778	303.7404	0.6296	48.3143	1.0883	49.4025	12.9420	1.0306	13.9725	0.0000	57,261.7555	57,261.7555	2.8567	0.0000	57,333.1716
Waste						0.0000	0.0000		0.0000	0.0000	549.6610	0.0000	549.6610	32.4840	0.0000	1,361.7618
Water						0.0000	0.0000		0.0000	0.0000	1,047.2880	3,526.6607	4,573.9487	107.8046	2.5891	8,040.6251
Total	**60.9639**	**104.0730**	**315.3171**	**0.6870**	**48.3143**	**1.9646**	**50.2789**	**12.9420**	**1.9070**	**14.8489**	**1,613.5795**	**83,762.3074**	**85,375.8869**	**144.2453**	**2.9545**	**89,862.4459**

	ROG	NOx	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**

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	tons/yr										MT/yr					
Mitigated	25.4621	94.8778	303.7404	0.6296	48.3143	1.0883	49.4025	12.9420	1.0306	13.9725	0.0000	57,261.7555	57,261.7555	2.8567	0.0000	57,333.1716
Unmitigated	25.4621	94.8778	303.7404	0.6296	48.3143	1.0883	49.4025	12.9420	1.0306	13.9725	0.0000	57,261.7555	57,261.7555	2.8567	0.0000	57,333.1716

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,407.30	2,313.18	2121.32	5,434,506	5,434,506
Free-Standing Discount Store	5,193.39	6,448.18	5113.54	8,359,569	8,359,569
General Light Industry	1,739.15	329.37	169.67	3,834,908	3,834,908
General Office Building	4,554.40	1,015.76	433.56	8,268,989	8,268,989
Motel	0.00	0.00	0.00		
Place of Worship	61.00	90.00	185.00	155,000	155,000
Research & Development	51,698.41	12,111.84	7075.86	99,419,165	99,419,165
Single Family Housing	9.52	9.91	8.62	21,819	21,819
Strip Mall	3,056.31	2,899.08	1408.85	4,309,775	4,309,775
Total	68,719.48	25,217.31	16,516.43	129,803,731	129,803,731

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Free-Standing Discount Store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Research & Development	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Place of Worship	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
General Light Industry	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Motel	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Apartments Mid Rise	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Single Family Housing	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Free-Standing Discount Store	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947
Strip Mall	0.581066	0.044264	0.192756	0.115658	0.019411	0.004878	0.012376	0.018919	0.001909	0.001745	0.005487	0.000584	0.000947

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12,996.4736	12,996.4736	0.8773	0.1815	13,072.4982

Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12,996.4736	12,996.4736	0.8773	0.1815	13,072.4982
NaturalGas Mitigated	1.0070	9.1429	7.6028	0.0549		0.6958	0.6958		0.6958	0.6958	0.0000	9,966.0745	9,966.0745	0.1910	0.1827	10,025.2979
NaturalGas Unmitigated	1.0070	9.1429	7.6028	0.0549		0.6958	0.6958		0.6958	0.6958	0.0000	9,966.0745	9,966.0745	0.1910	0.1827	10,025.2979

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.007e+006	0.0216	0.1846	0.0786	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.8290	213.8290	4.1000e-003	3.9200e-003	215.0996
Free-Standing Discount Store	215937	1.1600e-003	0.0106	8.8900e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5232	11.5232	2.2000e-004	2.1000e-004	11.5917
General Light Industry	6.60732e+006	0.0356	0.3239	0.2721	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5916	352.5916	6.7600e-003	6.4600e-003	354.6868
General Office Building	6.79237e+006	0.0366	0.3330	0.2797	2.0000e-003		0.0253	0.0253		0.0253	0.0253	0.0000	362.4667	362.4667	6.9500e-003	6.6500e-003	364.6207
Motel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.68801e+008	0.9102	8.2746	6.9506	0.0497		0.6289	0.6289		0.6289	0.6289	0.0000	9,007.8499	9,007.8499	0.1727	0.1651	9,061.3790
Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	164134	8.9000e-004	8.0500e-003	6.7600e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7588	8.7588	1.7000e-004	1.6000e-004	8.8109
Total		**1.0070**	**9.1429**	**7.6028**	**0.0549**		**0.6958**	**0.6958**		**0.6958**	**0.6958**	**0.0000**	**9,966.0745**	**9,966.0745**	**0.1910**	**0.1827**	**10,025.2979**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.007e+006	0.0216	0.1846	0.0786	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.8290	213.8290	4.1000e-003	3.9200e-003	215.0996
Free-Standing Discount Store	215937	1.1600e-003	0.0106	8.8900e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	11.5232	11.5232	2.2000e-004	2.1000e-004	11.5917
General Light Industry	6.60732e+006	0.0356	0.3239	0.2721	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5916	352.5916	6.7600e-003	6.4600e-003	354.6868
General Office Building	6.79237e+006	0.0366	0.3330	0.2797	2.0000e-003		0.0253	0.0253		0.0253	0.0253	0.0000	362.4667	362.4667	6.9500e-003	6.6500e-003	364.6207
Motel	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.68801e+008	0.9102	8.2746	6.9506	0.0497		0.6289	0.6289		0.6289	0.6289	0.0000	9,007.8499	9,007.8499	0.1727	0.1651	9,061.3790
Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	164134	8.9000e-004	8.0500e-003	6.7600e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7588	8.7588	1.7000e-004	1.6000e-004	8.8109
Total		**1.0070**	**9.1429**	**7.6028**	**0.0549**		**0.6958**	**0.6958**		**0.6958**	**0.6958**	**0.0000**	**9,966.0745**	**9,966.0745**	**0.1910**	**0.1827**	**10,025.2979**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.59677e+006	311.1521	0.0210	4.3500e-003	312.9722
Free-Standing Discount Store	993493	193.5954	0.0131	2.7000e-003	194.7279
General Light Industry	2.10097e+006	409.4013	0.0276	5.7200e-003	411.7961
General Office Building	7.52322e+006	1,465.9994	0.0990	0.0205	1,474.5749

Motel	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	42525.3	8.2866	5.6000e-004	1.2000e-004	8.3351
Research & Development	5.36746e+007	10,459.1996	0.7060	0.1461	10,520.3820
Single Family Housing	8658.17	1.6872	1.1000e-004	2.0000e-005	1.6970
Strip Mall	755156	147.1521	9.9300e-003	2.0600e-003	148.0129
Total		**12,996.4736**	**0.8773**	**0.1815**	**13,072.4982**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.59677e+006	311.1521	0.0210	4.3500e-003	312.9722
Free-Standing Discount Store	993493	193.5954	0.0131	2.7000e-003	194.7279
General Light Industry	2.10097e+006	409.4013	0.0276	5.7200e-003	411.7961
General Office Building	7.52322e+006	1,465.9994	0.0990	0.0205	1,474.5749
Motel	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	42525.3	8.2866	5.6000e-004	1.2000e-004	8.3351
Research & Development	5.36746e+007	10,459.1996	0.7060	0.1461	10,520.3820
Single Family Housing	8658.17	1.6872	1.1000e-004	2.0000e-005	1.6970
Strip Mall	755156	147.1521	9.9300e-003	2.0600e-003	148.0129
Total		**12,996.4736**	**0.8773**	**0.1815**	**13,072.4982**

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	tons/yr										MT/yr					
Mitigated	34.4948	0.0524	3.9739	2.4500e-003		0.1806	0.1806		0.1806	0.1806	16.6306	11.3431	27.9737	0.0317	1.0900e-003	29.0914
Unmitigated	34.4948	0.0524	3.9739	2.4500e-003		0.1806	0.1806		0.1806	0.1806	16.6306	11.3431	27.9737	0.0317	1.0900e-003	29.0914

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	29.5476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8411	0.0194	1.1587	2.3100e-003		0.1657	0.1657		0.1657	0.1657	16.6306	6.8100	23.4406	0.0268	1.0900e-003	24.4344
Landscaping	0.0947	0.0330	2.8152	1.5000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	4.5331	4.5331	4.9600e-003	0.0000	4.6570
Total	**34.4948**	**0.0524**	**3.9739**	**2.4600e-003**		**0.1806**	**0.1806**		**0.1806**	**0.1806**	**16.6306**	**11.3431**	**27.9737**	**0.0317**	**1.0900e-003**	**29.0914**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	29.5476					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8411	0.0194	1.1587	2.3100e-003		0.1657	0.1657		0.1657	0.1657	16.6306	6.8100	23.4406	0.0268	1.0900e-003	24.4344
Landscaping	0.0947	0.0330	2.8152	1.5000e-004		0.0150	0.0150		0.0150	0.0150	0.0000	4.5331	4.5331	4.9600e-003	0.0000	4.6570
Total	**34.4948**	**0.0524**	**3.9739**	**2.4600e-003**		**0.1806**	**0.1806**		**0.1806**	**0.1806**	**16.6306**	**11.3431**	**27.9737**	**0.0317**	**1.0900e-003**	**29.0914**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,573.9487	107.8046	2.5891	8,040.6251
Unmitigated	4,573.9487	107.8046	2.5891	8,040.6251

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	42.4928	0.7709	0.0186	67.3189
Free-Standing Discount Store	6.7206 / 4.11908	12.0277	0.2197	5.3100e-003	19.1012
General Light Industry	57.7015 / 0	79.1468	1.8843	0.0453	139.7377
General Office Building	73.388 / 44.9798	131.3405	2.3986	0.0580	208.5830
Motel	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.158025 / 0.247167	0.3853	5.1700e-003	1.3000e-004	0.5523
Research & Development	3134.38 / 0	4,299.2964	102.3568	2.4578	7,590.6280
Single Family Housing	0.065154 / 0.0410754	0.1174	2.1300e-003	5.0000e-005	0.1860
Strip Mall	5.10804 / 3.13073	9.1417	0.1670	4.0400e-003	14.5180
Total		**4,573.9487**	**107.8046**	**2.5892**	**8,040.6251**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	42.4928	0.7709	0.0186	67.3189
Free-Standing Discount Store	6.7206 / 4.11908	12.0277	0.2197	5.3100e-003	19.1012
General Light Industry	57.7015 / 0	79.1468	1.8843	0.0453	139.7377

General Office Building	73.388 / 44.9798	131.3405	2.3986	0.0580	208.5830
Motel	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.158025 / 0.247167	0.3853	5.1700e-003	1.3000e-004	0.5523
Research & Development	3134.38 / 0	4,299.2964	102.3568	2.4578	7,590.6280
Single Family Housing	0.065154 / 0.0410754	0.1174	2.1300e-003	5.0000e-005	0.1860
Strip Mall	5.10804 / 3.13073	9.1417	0.1670	4.0400e-003	14.5180
Total		**4,573.9487**	**107.8046**	**2.5892**	**8,040.6251**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	549.6610	32.4840	0.0000	1,361.7618
Unmitigated	549.6610	32.4840	0.0000	1,361.7618

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Free-Standing Discount Store	390.2	79.2071	4.6810	0.0000	196.2322
General Light Industry	309.4	62.8054	3.7117	0.0000	155.5977
General Office Building	384.01	77.9506	4.6068	0.0000	193.1192
Motel	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	900	182.6919	10.7968	0.0000	452.6114
Research & Development	484.43	98.3349	5.8114	0.0000	243.6206
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	72.41	14.6986	0.8687	0.0000	36.4151
Total		**549.6610**	**32.4840**	**0.0000**	**1,361.7618**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Free-Standing Discount Store	390.2	79.2071	4.6810	0.0000	196.2322
General Light Industry	309.4	62.8054	3.7117	0.0000	155.5977
General Office Building	384.01	77.9506	4.6068	0.0000	193.1192
Motel	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	900	182.6919	10.7968	0.0000	452.6114

Research & Development	484.43	98.3349	5.8114	0.0000	243.6206
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	72.41	14.6986	0.8687	0.0000	36.4151
Total		**549.6610**	**32.4840**	**0.0000**	**1,361.7618**

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

North Bayshore Precise Plan, Operational

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4,844.56	1000sqft	111.22	4,844,563.00	19378
Research & Development	4,724.33	1000sqft	108.46	4,724,329.00	16535
Place of Worship	100.00	Seat	0.12	5,050.51	10
General Light Industry	221.90	1000sqft	5.09	221,897.00	266
Motel	400.00	Room	18.00	784,080.00	160
Apartments Mid Rise	362.00	Dwelling Unit	9.53	362,000.00	760
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	2
Free-Standing Discount Store	39.93	1000sqft	0.92	39,932.00	120
Strip Mall	132.48	1000sqft	3.04	132,481.00	371

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	289.84	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Revised CO2 Emission Intensity

Land Use - From Land Use and Sizes Worksheet

Construction Phase - No construction emission modeled

Off-road Equipment -

Off-road Equipment - Only operational emission modeled

Woodstoves - Default used, since unknown how many residential units could have woodstoves or fireplaces

Energy Use - default values used

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblConstructionPhase	NumDays	180.00	1.00
tblLandUse	BuildingSpaceSquareFeet	4,844,560.00	4,844,563.00
tblLandUse	BuildingSpaceSquareFeet	4,724,330.00	4,724,329.00
tblLandUse	BuildingSpaceSquareFeet	221,900.00	221,897.00
tblLandUse	BuildingSpaceSquareFeet	39,930.00	39,932.00
tblLandUse	BuildingSpaceSquareFeet	132,480.00	132,481.00
tblLandUse	LandUseSquareFeet	4,844,560.00	4,844,563.00
tblLandUse	LandUseSquareFeet	4,724,330.00	4,724,329.00
tblLandUse	LandUseSquareFeet	221,900.00	221,897.00
tblLandUse	LandUseSquareFeet	39,930.00	39,932.00
tblLandUse	LandUseSquareFeet	132,480.00	132,481.00
tblLandUse	Population	0.00	19,378.00
tblLandUse	Population	0.00	16,535.00
tblLandUse	Population	0.00	10.00
tblLandUse	Population	0.00	266.00
tblLandUse	Population	0.00	160.00
tblLandUse	Population	1,035.00	760.00
tblLandUse	Population	3.00	2.00
tblLandUse	Population	0.00	120.00
tblLandUse	Population	0.00	371.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	289.84
tblProjectCharacteristics	OperationalYear	2018	2030

tblTripsAndVMT	WorkerTripNumber	0.00	18.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	50.2071	0.0512	3.9426	2.4600e-003		0.1810	0.1810		0.1810	0.1810	16.6306	11.3997	28.0303	0.0314	1.0900e-003	29.1410
Energy	1.3489	12.2506	10.2133	0.0736		0.9320	0.9320		0.9320	0.9320	0.0000	31,695.9373	31,695.9373	2.0915	0.6245	31,934.3365
Mobile	12.5744	54.3410	145.6040	0.6289	72.8485	0.4211	73.2695	19.4954	0.3914	19.8869	0.0000	57,871.0927	57,871.0927	1.6606	0.0000	57,912.6078
Waste						0.0000	0.0000		0.0000	0.0000	1,367.5116	0.0000	1,367.5116	80.8176	0.0000	3,387.9520
Water						0.0000	0.0000		0.0000	0.0000	1,041.2295	2,588.6823	3,629.9118	107.2033	2.5788	7,078.4679
Total	**64.1304**	**66.6429**	**159.7599**	**0.7050**	**72.8485**	**1.5340**	**74.3824**	**19.4954**	**1.5043**	**20.9998**	**2,425.3716**	**92,167.1120**	**94,592.4835**	**191.8045**	**3.2044**	**100,342.5052**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	50.2071	0.0512	3.9426	2.4600e-003		0.1810	0.1810		0.1810	0.1810	16.6306	11.3997	28.0303	0.0314	1.0900e-003	29.1410
Energy	1.3489	12.2506	10.2133	0.0736		0.9320	0.9320		0.9320	0.9320	0.0000	31,695.9373	31,695.9373	2.0915	0.6245	31,934.3365
Mobile	12.5744	54.3410	145.6040	0.6289	72.8485	0.4211	73.2695	19.4954	0.3914	19.8869	0.0000	57,871.0927	57,871.0927	1.6606	0.0000	57,912.6078

Waste						0.0000	0.0000		0.0000	0.0000	1,367.5116	0.0000	1,367.5116	80.8176	0.0000	3,387.9520
Water						0.0000	0.0000		0.0000	0.0000	1,041.2295	2,588.6823	3,629.9118	107.2033	2.5788	7,078.4679
Total	**64.1304**	**66.6429**	**159.7599**	**0.7050**	**72.8485**	**1.5340**	**74.3824**	**19.4954**	**1.5043**	**20.9998**	**2,425.3716**	**92,167.1120**	**94,592.4835**	**191.8045**	**3.2044**	**100,342.5052**

	ROG	NOx	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**

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	tons/yr										MT/yr					
Mitigated	12.5744	54.3410	145.6040	0.6289	72.8485	0.4211	73.2695	19.4954	0.3914	19.8869	0.0000	57,871.0927	57,871.0927	1.6606	0.0000	57,912.6078
Unmitigated	12.5744	54.3410	145.6040	0.6289	72.8485	0.4211	73.2695	19.4954	0.3914	19.8869	0.0000	57,871.0927	57,871.0927	1.6606	0.0000	57,912.6078

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,407.30	2,313.18	2121.32	5,434,506	5,434,506
Free-Standing Discount Store	2,285.59	2,837.83	2250.45	3,679,021	3,679,021
General Light Industry	1,546.64	292.91	150.89	3,410,412	3,410,412
General Office Building	53,435.50	11,917.62	5086.79	97,017,782	97,017,782
Motel	2,252.00	2,252.00	2252.00	4,273,775	4,273,775
Place of Worship	61.00	90.00	185.00	155,000	155,000

Research & Development	38,314.32	8,976.23	5244.01	73,680,742	73,680,742
Single Family Housing	9.52	9.91	8.62	21,819	21,819
Strip Mall	5,871.51	5,569.46	2706.57	8,279,568	8,279,568
Total	106,183.38	34,259.13	20,005.65	195,952,625	195,952,625

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Free-Standing Discount Store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Research & Development	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Place of Worship	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
General Light Industry	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Motel	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Apartments Mid Rise	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Single Family Housing	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Free-Standing Discount Store	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Strip Mall	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18,346.6838	18,346.6838	1.8357	0.3798	18,505.7550
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18,346.6838	18,346.6838	1.8357	0.3798	18,505.7550
NaturalGas Mitigated	1.3489	12.2506	10.2133	0.0736		0.9320	0.9320		0.9320	0.9320	0.0000	13,349.2535	13,349.2535	0.2559	0.2447	13,428.5814
NaturalGas Unmitigated	1.3489	12.2506	10.2133	0.0736		0.9320	0.9320		0.9320	0.9320	0.0000	13,349.2535	13,349.2535	0.2559	0.2447	13,428.5814

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.007e+006	0.0216	0.1846	0.0786	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.8290	213.8290	4.1000e-003	3.9200e-003	215.0996
Free-Standing Discount Store	95038.2	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0716	5.0716	1.0000e-004	9.0000e-005	5.1017
General Light Industry	5.87583e+006	0.0317	0.2880	0.2420	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.5568	313.5568	6.0100e-003	5.7500e-003	315.4201
General Office Building	7.96931e+007	0.4297	3.9065	3.2815	0.0234		0.2969	0.2969		0.2969	0.2969	0.0000	4,252.7252	4,252.7252	0.0815	0.0780	4,277.9971
Motel	3.48994e+007	0.1882	1.7108	1.4370	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,862.3649	1,862.3649	0.0357	0.0341	1,873.4320
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.251e+008	0.6746	6.1324	5.1512	0.0368		0.4661	0.4661		0.4661	0.4661	0.0000	6,675.8248	6,675.8248	0.1280	0.1224	6,715.4959

Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	315305	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	16.8259	16.8259	3.2000e-004	3.1000e-004	16.9259
Total		**1.3489**	**12.2506**	**10.2133**	**0.0736**		**0.9320**	**0.9320**		**0.9320**	**0.9320**	**0.0000**	**13,349.2535**	**13,349.2535**	**0.2559**	**0.2447**	**13,428.5814**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.007e+006	0.0216	0.1846	0.0786	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.8290	213.8290	4.1000e-003	3.9200e-003	215.0996
Free-Standing Discount Store	95038.2	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	5.0716	5.0716	1.0000e-004	9.0000e-005	5.1017
General Light Industry	5.87583e+006	0.0317	0.2880	0.2420	1.7300e-003		0.0219	0.0219		0.0219	0.0219	0.0000	313.5568	313.5568	6.0100e-003	5.7500e-003	315.4201
General Office Building	7.96931e+007	0.4297	3.9065	3.2815	0.0234		0.2969	0.2969		0.2969	0.2969	0.0000	4,252.7252	4,252.7252	0.0815	0.0780	4,277.9971
Motel	3.48994e+007	0.1882	1.7108	1.4370	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,862.3649	1,862.3649	0.0357	0.0341	1,873.4320
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.251e+008	0.6746	6.1324	5.1512	0.0368		0.4661	0.4661		0.4661	0.4661	0.0000	6,675.8248	6,675.8248	0.1280	0.1224	6,715.4959
Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	315305	1.7000e-003	0.0155	0.0130	9.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	16.8259	16.8259	3.2000e-004	3.1000e-004	16.9259
Total		**1.3489**	**12.2506**	**10.2133**	**0.0736**		**0.9320**	**0.9320**		**0.9320**	**0.9320**	**0.0000**	**13,349.2535**	**13,349.2535**	**0.2559**	**0.2447**	**13,428.5814**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.59677e+006	209.9262	0.0210	4.3500e-003	211.7464
Free-Standing Discount Store	437255	57.4856	5.7500e-003	1.1900e-003	57.9840
General Light Industry	1.86837e+006	245.6335	0.0246	5.0800e-003	247.7632
General Office Building	8.82679e+007	11,604.5163	1.1611	0.2402	11,705.1309
Motel	6.10014e+006	801.9809	0.0802	0.0166	808.9343
Place of Worship	42525.3	5.5908	5.6000e-004	1.2000e-004	5.6392
Research & Development	3.97789e+007	5,229.6941	0.5233	0.1083	5,275.0371
Single Family Housing	8658.17	1.1383	1.1000e-004	2.0000e-005	1.1482
Strip Mall	1.45067e+006	190.7180	0.0191	3.9500e-003	192.3716
Total		**18,346.6838**	**1.8357**	**0.3798**	**18,505.7550**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.59677e+006	209.9262	0.0210	4.3500e-003	211.7464
Free-Standing Discount Store	437255	57.4856	5.7500e-003	1.1900e-003	57.9840
General Light Industry	1.86837e+006	245.6335	0.0246	5.0800e-003	247.7632
General Office Building	8.82679e+007	11,604.5163	1.1611	0.2402	11,705.1309

Motel	6.10014e+006	801.9809	0.0802	0.0166	808.9343
Place of Worship	42525.3	5.5908	5.6000e-004	1.2000e-004	5.6392
Research & Development	3.97789e+007	5,229.6941	0.5233	0.1083	5,275.0371
Single Family Housing	8658.17	1.1383	1.1000e-004	2.0000e-005	1.1482
Strip Mall	1.45067e+006	190.7180	0.0191	3.9500e-003	192.3716
Total		**18,346.6838**	**1.8357**	**0.3798**	**18,505.7550**

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	tons/yr										MT/yr					
Mitigated	50.2071	0.0512	3.9426	2.4600e-003		0.1810	0.1810		0.1810	0.1810	16.6306	11.3997	28.0303	0.0314	1.0900e-003	29.1410
Unmitigated	50.2071	0.0512	3.9426	2.4600e-003		0.1810	0.1810		0.1810	0.1810	16.6306	11.3997	28.0303	0.0314	1.0900e-003	29.1410

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.4141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8411	0.0194	1.1587	2.3100e-003		0.1657	0.1657		0.1657	0.1657	16.6306	6.8100	23.4406	0.0268	1.0900e-003	24.4344
Landscaping	0.0892	0.0319	2.7839	1.5000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	4.5897	4.5897	4.6800e-003	0.0000	4.7066
Total	**50.2071**	**0.0512**	**3.9426**	**2.4600e-003**		**0.1810**	**0.1810**		**0.1810**	**0.1810**	**16.6306**	**11.3997**	**28.0303**	**0.0314**	**1.0900e-003**	**29.1410**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.4141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.8411	0.0194	1.1587	2.3100e-003		0.1657	0.1657		0.1657	0.1657	16.6306	6.8100	23.4406	0.0268	1.0900e-003	24.4344
Landscaping	0.0892	0.0319	2.7839	1.5000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	4.5897	4.5897	4.6800e-003	0.0000	4.7066
Total	**50.2071**	**0.0512**	**3.9426**	**2.4600e-003**		**0.1810**	**0.1810**		**0.1810**	**0.1810**	**16.6306**	**11.3997**	**28.0303**	**0.0314**	**1.0900e-003**	**29.1410**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3,629.9118	107.2033	2.5788	7,078.4679
Unmitigated	3,629.9118	107.2033	2.5788	7,078.4679

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	31.1031	0.7709	0.0186	55.9292
Free-Standing Discount Store	2.95772 / 1.81279	3.8766	0.0967	2.3400e-003	6.9896
General Light Industry	51.3144 / 0	52.7837	1.6757	0.0402	106.6677
General Office Building	861.042 / 527.735	1,128.5300	28.1426	0.6802	2,034.7941
Motel	10.1467 / 1.12741	10.9560	0.3314	7.9700e-003	21.6153
Place of Worship	0.158025 / 0.247167	0.2763	5.1700e-003	1.3000e-004	0.4432
Research & Development	2322.92 / 0	2,389.4386	75.8579	1.8215	4,828.6841
Single Family Housing	0.065154 / 0.0410754	0.0859	2.1300e-003	5.0000e-005	0.1545
Strip Mall	9.81313 / 6.0145	12.8616	0.3207	7.7500e-003	23.1902
Total		**3,629.9118**	**107.2033**	**2.5788**	**7,078.4679**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	31.1031	0.7709	0.0186	55.9292
Free-Standing Discount Store	2.95772 / 1.81279	3.8766	0.0967	2.3400e-003	6.9896
General Light Industry	51.3144 / 0	52.7837	1.6757	0.0402	106.6677
General Office Building	861.042 / 527.735	1,128.5300	28.1426	0.6802	2,034.7941
Motel	10.1467 / 1.12741	10.9560	0.3314	7.9700e-003	21.6153
Place of Worship	0.158025 / 0.247167	0.2763	5.1700e-003	1.3000e-004	0.4432
Research & Development	2322.92 / 0	2,389.4386	75.8579	1.8215	4,828.6841
Single Family Housing	0.065154 / 0.0410754	0.0859	2.1300e-003	5.0000e-005	0.1545
Strip Mall	9.81313 / 6.0145	12.8616	0.3207	7.7500e-003	23.1902
Total		**3,629.9118**	**107.2033**	**2.5788**	**7,078.4679**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	1,367.5116	80.8176	0.0000	3,387.9520
Unmitigated	1,367.5116	80.8176	0.0000	3,387.9520

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Free-Standing Discount Store	171.73	34.8596	2.0602	0.0000	86.3633
General Light Industry	275.16	55.8550	3.3009	0.0000	138.3784
General Office Building	4505.44	914.5636	54.0492	0.0000	2,265.7926
Motel	219	44.4550	2.6272	0.0000	110.1354
Place of Worship	900	182.6919	10.7968	0.0000	452.6114
Research & Development	359.02	72.8778	4.3070	0.0000	180.5517
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	139.1	28.2360	1.6687	0.0000	69.9536
Total		**1,367.5116**	**80.8176**	**0.0000**	**3,387.9520**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Free-Standing Discount Store	171.73	34.8596	2.0602	0.0000	86.3633
General Light Industry	275.16	55.8550	3.3009	0.0000	138.3784
General Office Building	4505.44	914.5636	54.0492	0.0000	2,265.7926
Motel	219	44.4550	2.6272	0.0000	110.1354
Place of Worship	900	182.6919	10.7968	0.0000	452.6114
Research & Development	359.02	72.8778	4.3070	0.0000	180.5517
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	139.1	28.2360	1.6687	0.0000	69.9536
Total		**1,367.5116**	**80.8176**	**0.0000**	**3,387.9520**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Proposed NBPP 2030, Operational

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5,875.38	1000sqft	134.88	5,875,378.00	23502
Research & Development	3,834.66	1000sqft	88.03	3,834,661.00	13421
Place of Worship	100.00	Seat	0.12	5,050.51	10
General Light Industry	137.67	1000sqft	3.16	137,671.00	165
Motel	400.00	Room	18.00	784,080.00	160
Apartments Mid Rise	10,212.00	Dwelling Unit	268.74	10,212,000.00	17998
Single Family Housing	1.00	Dwelling Unit	0.32	1,800.00	2
Free-Standing Discount Store	24.31	1000sqft	0.56	24,308.00	73
Strip Mall	192.93	1000sqft	4.43	192,931.00	532

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	289.84	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Revised CO2 Emission Intensity

Land Use - Assuming the capacity of the church to be 100

Land Use Sizes from "Modeling Land Uses" spreadsheet

Construction Phase - only operational emissions modeled

Off-road Equipment -

Off-road Equipment - Only operational emission modeled

Woodstoves - defaults used, since unknown how many residential units could have woodstoves or fireplaces

Energy Use - Default energy intensity values considered

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	360.00	1.00
tblLandUse	BuildingSpaceSquareFeet	5,875,380.00	5,875,378.00
tblLandUse	BuildingSpaceSquareFeet	3,834,660.00	3,834,661.00
tblLandUse	BuildingSpaceSquareFeet	137,670.00	137,671.00
tblLandUse	BuildingSpaceSquareFeet	24,310.00	24,308.00
tblLandUse	BuildingSpaceSquareFeet	192,930.00	192,931.00
tblLandUse	LandUseSquareFeet	5,875,380.00	5,875,378.00
tblLandUse	LandUseSquareFeet	3,834,660.00	3,834,661.00
tblLandUse	LandUseSquareFeet	137,670.00	137,671.00
tblLandUse	LandUseSquareFeet	24,310.00	24,308.00
tblLandUse	LandUseSquareFeet	192,930.00	192,931.00
tblLandUse	Population	0.00	23,502.00
tblLandUse	Population	0.00	13,421.00
tblLandUse	Population	0.00	10.00
tblLandUse	Population	0.00	165.00
tblLandUse	Population	0.00	160.00
tblLandUse	Population	29,206.00	17,998.00
tblLandUse	Population	3.00	2.00
tblLandUse	Population	0.00	73.00
tblLandUse	Population	0.00	532.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	289.84
tblProjectCharacteristics	OperationalYear	2018	2030
tblTripsAndVMT	WorkerTripNumber	0.00	18.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	120.9695	1.4152	108.1829	0.0686		5.0608	5.0608		5.0608	5.0608	465.6892	315.3202	781.0094	0.8670	0.0305	811.7844
Energy	1.8897	16.8469	11.9919	0.1031		1.3056	1.3056		1.3056	1.3056	0.0000	44,216.3284	44,216.3284	2.9113	0.8710	44,548.6821
Mobile	22.7360	98.1926	262.0320	1.1296	130.7268	0.7570	131.4837	34.9846	0.7037	35.6883	0.0000	103,944.4453	103,944.4453	2.9882	0.0000	104,019.1506
Waste						0.0000	0.0000		0.0000	0.0000	2,446.1852	0.0000	2,446.1852	144.5654	0.0000	6,060.3204
Water						0.0000	0.0000		0.0000	0.0000	1,159.0499	3,091.6479	4,250.6978	119.3549	2.8749	8,091.2967
Total	**145.5952**	**116.4546**	**382.2068**	**1.3013**	**130.7268**	**7.1234**	**137.8502**	**34.9846**	**7.0701**	**42.0547**	**4,070.9243**	**151,567.7417**	**155,638.6660**	**270.6868**	**3.7765**	**163,531.2342**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	120.9695	1.4152	108.1829	0.0686		5.0608	5.0608		5.0608	5.0608	465.6892	315.3202	781.0094	0.8670	0.0305	811.7844
Energy	1.8897	16.8469	11.9919	0.1031		1.3056	1.3056		1.3056	1.3056	0.0000	44,216.3284	44,216.3284	2.9113	0.8710	44,548.6821
Mobile	22.7360	98.1926	262.0320	1.1296	130.7268	0.7570	131.4837	34.9846	0.7037	35.6883	0.0000	103,944.4453	103,944.4453	2.9882	0.0000	104,019.1506

Waste						0.0000	0.0000		0.0000	0.0000	2,446.1852	0.0000	2,446.1852	144.5654	0.0000	6,060.3204
Water						0.0000	0.0000		0.0000	0.0000	1,159.0499	3,091.6479	4,250.6978	119.3549	2.8749	8,091.2967
Total	**145.5952**	**116.4546**	**382.2068**	**1.3013**	**130.7268**	**7.1234**	**137.8502**	**34.9846**	**7.0701**	**42.0547**	**4,070.9243**	**151,567.7417**	**155,638.6660**	**270.6868**	**3.7765**	**163,531.2342**

	ROG	NOx	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**

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	tons/yr										MT/yr					
Mitigated	22.7360	98.1926	262.0320	1.1296	130.7268	0.7570	131.4837	34.9846	0.7037	35.6883	0.0000	103,944.4453	103,944.4453	2.9882	0.0000	104,019.1506
Unmitigated	22.7360	98.1926	262.0320	1.1296	130.7268	0.7570	131.4837	34.9846	0.7037	35.6883	0.0000	103,944.4453	103,944.4453	2.9882	0.0000	104,019.1506

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	67,909.80	65,254.68	59842.32	153,307,113	153,307,113
Free-Standing Discount Store	1,391.50	1,727.71	1370.11	2,239,845	2,239,845
General Light Industry	959.56	181.72	93.62	2,115,870	2,115,870
General Office Building	64,805.44	14,453.43	6169.15	117,661,116	117,661,116
Motel	2,252.00	2,252.00	2252.00	4,273,775	4,273,775
Place of Worship	61.00	90.00	185.00	155,000	155,000

Research & Development	31,099.09	7,285.85	4256.47	59,805,432	59,805,432
Single Family Housing	9.52	9.91	8.62	21,819	21,819
Strip Mall	8,550.66	8,110.78	3941.56	12,057,496	12,057,496
Total	177,038.58	99,366.09	78,118.85	351,637,465	351,637,465

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Free-Standing Discount Store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Research & Development	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Place of Worship	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
General Light Industry	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Motel	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Apartments Mid Rise	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Single Family Housing	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Free-Standing Discount Store	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651
Strip Mall	0.621541	0.034056	0.180136	0.101248	0.011859	0.005060	0.013110	0.022881	0.002221	0.001470	0.005122	0.000646	0.000651

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25,514.4064	25,514.4064	2.5529	0.5282	25,735.6240
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	25,514.4064	25,514.4064	2.5529	0.5282	25,735.6240
NaturalGas Mitigated	1.8897	16.8469	11.9919	0.1031		1.3056	1.3056		1.3056	1.3056	0.0000	18,701.9220	18,701.9220	0.3585	0.3429	18,813.0581
NaturalGas Unmitigated	1.8897	16.8469	11.9919	0.1031		1.3056	1.3056		1.3056	1.3056	0.0000	18,701.9220	18,701.9220	0.3585	0.3429	18,813.0581

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.13037e+008	0.6095	5.2086	2.2164	0.0333		0.4211	0.4211		0.4211	0.4211	0.0000	6,032.1031	6,032.1031	0.1156	0.1106	6,067.9489
Free-Standing Discount Store	57853	3.1000e-004	2.8400e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0873	3.0873	6.0000e-005	6.0000e-005	3.1056
General Light Industry	3.64553e+006	0.0197	0.1787	0.1501	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.5393	194.5393	3.7300e-003	3.5700e-003	195.6953
General Office Building	9.665e+007	0.5212	4.7377	3.9797	0.0284		0.3601	0.3601		0.3601	0.3601	0.0000	5,157.6104	5,157.6104	0.0989	0.0946	5,188.2595
Motel	3.48994e+007	0.1882	1.7108	1.4370	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,862.3649	1,862.3649	0.0357	0.0341	1,873.4320
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.01542e+008	0.5475	4.9775	4.1811	0.0299		0.3783	0.3783		0.3783	0.3783	0.0000	5,418.6584	5,418.6584	0.1039	0.0993	5,450.8588

Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	459176	2.4800e-003	0.0225	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5034	24.5034	4.7000e-004	4.5000e-004	24.6490
Total		**1.8897**	**16.8469**	**11.9919**	**0.1031**		**1.3056**	**1.3056**		**1.3056**	**1.3056**	**0.0000**	**18,701.9220**	**18,701.9220**	**0.3585**	**0.3429**	**18,813.0581**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.13037e+008	0.6095	5.2086	2.2164	0.0333		0.4211	0.4211		0.4211	0.4211	0.0000	6,032.1031	6,032.1031	0.1156	0.1106	6,067.9489
Free-Standing Discount Store	57853	3.1000e-004	2.8400e-003	2.3800e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	3.0873	3.0873	6.0000e-005	6.0000e-005	3.1056
General Light Industry	3.64553e+006	0.0197	0.1787	0.1501	1.0700e-003		0.0136	0.0136		0.0136	0.0136	0.0000	194.5393	194.5393	3.7300e-003	3.5700e-003	195.6953
General Office Building	9.665e+007	0.5212	4.7377	3.9797	0.0284		0.3601	0.3601		0.3601	0.3601	0.0000	5,157.6104	5,157.6104	0.0989	0.0946	5,188.2595
Motel	3.48994e+007	0.1882	1.7108	1.4370	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,862.3649	1,862.3649	0.0357	0.0341	1,873.4320
Place of Worship	133738	7.2000e-004	6.5600e-003	5.5100e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1367	7.1367	1.4000e-004	1.3000e-004	7.1792
Research & Development	1.01542e+008	0.5475	4.9775	4.1811	0.0299		0.3783	0.3783		0.3783	0.3783	0.0000	5,418.6584	5,418.6584	0.1039	0.0993	5,450.8588
Single Family Housing	35952.6	1.9000e-004	1.6600e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9186	1.9186	4.0000e-005	4.0000e-005	1.9300
Strip Mall	459176	2.4800e-003	0.0225	0.0189	1.4000e-004		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	24.5034	24.5034	4.7000e-004	4.5000e-004	24.6490
Total		**1.8897**	**16.8469**	**11.9919**	**0.1031**		**1.3056**	**1.3056**		**1.3056**	**1.3056**	**0.0000**	**18,701.9220**	**18,701.9220**	**0.3585**	**0.3429**	**18,813.0581**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.50448e+007	5,922.0078	0.5925	0.1226	5,973.3533
Free-Standing Discount Store	266173	34.9935	3.5000e-003	7.2000e-004	35.2969
General Light Industry	1.15919e+006	152.3978	0.0153	3.1500e-003	153.7191
General Office Building	1.07049e+008	14,073.6986	1.4082	0.2913	14,195.7218
Motel	6.10014e+006	801.9809	0.0802	0.0166	808.9343
Place of Worship	42525.3	5.5908	5.6000e-004	1.2000e-004	5.6392
Research & Development	3.22878e+007	4,244.8576	0.4247	0.0879	4,281.6618
Single Family Housing	8658.17	1.1383	1.1000e-004	2.0000e-005	1.1482
Strip Mall	2.11259e+006	277.7411	0.0278	5.7500e-003	280.1492
Total		**25,514.4064**	**2.5529**	**0.5282**	**25,735.6240**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.50448e+007	5,922.0078	0.5925	0.1226	5,973.3533
Free-Standing Discount Store	266173	34.9935	3.5000e-003	7.2000e-004	35.2969
General Light Industry	1.15919e+006	152.3978	0.0153	3.1500e-003	153.7191
General Office Building	1.07049e+008	14,073.6986	1.4082	0.2913	14,195.7218

Motel	6.10014e+006	801.9809	0.0802	0.0166	808.9343
Place of Worship	42525.3	5.5908	5.6000e-004	1.2000e-004	5.6392
Research & Development	3.22878e+007	4,244.8576	0.4247	0.0879	4,281.6618
Single Family Housing	8658.17	1.1383	1.1000e-004	2.0000e-005	1.1482
Strip Mall	2.11259e+006	277.7411	0.0278	5.7500e-003	280.1492
Total		**25,514.4064**	**2.5529**	**0.5282**	**25,735.6240**

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	tons/yr										MT/yr					
Mitigated	120.9695	1.4152	108.1829	0.0686		5.0608	5.0608		5.0608	5.0608	465.6892	315.3202	781.0094	0.8670	0.0305	811.7844
Unmitigated	120.9695	1.4152	108.1829	0.0686		5.0608	5.0608		5.0608	5.0608	465.6892	315.3202	781.0094	0.8670	0.0305	811.7844

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

SubCategory	tons/yr										MT/yr					
Architectural Coating	12.8496					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	82.2806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	23.5682	0.5424	32.4540	0.0646		4.6399	4.6399		4.6399	4.6399	465.6892	191.2600	656.9492	0.7485	0.0305	684.7617
Landscaping	2.2711	0.8728	75.7289	4.0100e-003		0.4209	0.4209		0.4209	0.4209	0.0000	124.0602	124.0602	0.1185	0.0000	127.0228
Total	**120.9695**	**1.4152**	**108.1829**	**0.0686**		**5.0608**	**5.0608**		**5.0608**	**5.0608**	**465.6892**	**315.3202**	**781.0094**	**0.8670**	**0.0305**	**811.7844**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	12.8496					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	82.2806					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	23.5682	0.5424	32.4540	0.0646		4.6399	4.6399		4.6399	4.6399	465.6892	191.2600	656.9492	0.7485	0.0305	684.7617
Landscaping	2.2711	0.8728	75.7289	4.0100e-003		0.4209	0.4209		0.4209	0.4209	0.0000	124.0602	124.0602	0.1185	0.0000	127.0228
Total	**120.9695**	**1.4152**	**108.1829**	**0.0686**		**5.0608**	**5.0608**		**5.0608**	**5.0608**	**465.6892**	**315.3202**	**781.0094**	**0.8670**	**0.0305**	**811.7844**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,250.6978	119.3549	2.8749	8,091.2967
Unmitigated	4,250.6978	119.3549	2.8749	8,091.2967

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	665.353 / 419.462	877.4165	21.7472	0.5257	1,577.7606
Free-Standing Discount Store	1.8007 / 1.10366	2.3601	0.0589	1.4200e-003	4.2554
General Light Industry	31.8362 / 0	32.7478	1.0397	0.0250	66.1782
General Office Building	1044.25 / 640.026	1,368.6573	34.1308	0.8249	2,467.7553
Motel	10.1467 / 1.12741	10.9560	0.3314	7.9700e-003	21.6153
Place of Worship	0.158025 / 0.247167	0.2763	5.1700e-003	1.3000e-004	0.4432
Research & Development	1885.48 / 0	1,939.4675	61.5726	1.4785	3,919.3625
Single Family Housing	0.065154 / 0.0410754	0.0859	2.1300e-003	5.0000e-005	0.1545
Strip Mall	14.2908 / 8.75888	18.7303	0.4671	0.0113	33.7717
Total		**4,250.6977**	**119.3549**	**2.8749**	**8,091.2967**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	665.353 / 419.462	877.4165	21.7472	0.5257	1,577.7606
Free-Standing Discount Store	1.8007 / 1.10366	2.3601	0.0589	1.4200e-003	4.2554
General Light Industry	31.8362 / 0	32.7478	1.0397	0.0250	66.1782
General Office Building	1044.25 / 640.026	1,368.6573	34.1308	0.8249	2,467.7553
Motel	10.1467 / 1.12741	10.9560	0.3314	7.9700e-003	21.6153
Place of Worship	0.158025 / 0.247167	0.2763	5.1700e-003	1.3000e-004	0.4432
Research & Development	1885.48 / 0	1,939.4675	61.5726	1.4785	3,919.3625
Single Family Housing	0.065154 / 0.0410754	0.0859	2.1300e-003	5.0000e-005	0.1545
Strip Mall	14.2908 / 8.75888	18.7303	0.4671	0.0113	33.7717
Total		**4,250.6977**	**119.3549**	**2.8749**	**8,091.2967**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	2,446.1852	144.5654	0.0000	6,060.3204
Unmitigated	2,446.1852	144.5654	0.0000	6,060.3204

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	4697.52	953.5541	56.3534	0.0000	2,362.3899
Free-Standing Discount Store	104.55	21.2227	1.2542	0.0000	52.5784
General Light Industry	170.71	34.6526	2.0479	0.0000	85.8503
General Office Building	5464.1	1,109.1629	65.5497	0.0000	2,747.9042
Motel	219	44.4550	2.6272	0.0000	110.1354
Place of Worship	900	182.6919	10.7968	0.0000	452.6114
Research & Development	291.41	59.1536	3.4959	0.0000	146.5505
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	202.58	41.1219	2.4302	0.0000	101.8778
Total		**2,446.1852**	**144.5654**	**0.0000**	**6,060.3204**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	4697.52	953.5541	56.3534	0.0000	2,362.3899
Free-Standing Discount Store	104.55	21.2227	1.2542	0.0000	52.5784
General Light Industry	170.71	34.6526	2.0479	0.0000	85.8503
General Office Building	5464.1	1,109.1629	65.5497	0.0000	2,747.9042
Motel	219	44.4550	2.6272	0.0000	110.1354
Place of Worship	900	182.6919	10.7968	0.0000	452.6114
Research & Development	291.41	59.1536	3.4959	0.0000	146.5505
Single Family Housing	0.84	0.1705	0.0101	0.0000	0.4224
Strip Mall	202.58	41.1219	2.4302	0.0000	101.8778
Total		**2,446.1852**	**144.5654**	**0.0000**	**6,060.3204**

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

Attachment 2: Mobile Emissions Calculations from NBPP Operation

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

		Total Tons Per Year					
	Service Population	**ROG**	**NOx**	**PM10**	**PM2.5**	**CO2**	**CO2/Capita**
Existing 2015	25,605	37	237	57	12	151,247	5.91
North Bayshore Precise Plan 2030	38,649	23	190	87	15	205,034	5.31
Proposed North Bayshore Precise Plan 2030 (smaller unit residential)	56,910	34	354	80	15	250,537	4.40

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

Land Use	Size[1]	Units	Service Population[2]	Units	Trip Rate/unit	VMT[3]		
Existing 2015								
Single Family Dwelling Units	1	dwelllings	2	Residents				
Multi-Family Dwelling Units	362	dwelllings	760	Residents				
Office	412910	square feet	1027	Employees				
Research & Development	6374650	square feet	22194	Employees				
Industrial	249521	square feet	299	Employees				
Retail and Restaurant	68954	square feet	227	Employees				
Service Commercial	90732	square feet	272	Employees				
Motel Rooms	0	Rooms	0	Employees				
Church Building	1	Building	10	Employees				
Institutional/Recreation Trips	8135	Trips	814	Employees				
Total			25,605		73,450	trips	501,530	shared
							1,001,640	total miles
North Bayshore Precise Plan 2030								
Single Family Dwelling Units	1	dwelllings	2	Residents				
Multi-Family Dwelling Units	362	dwelllings	760	Residents				
Office	4844563	square feet	19378	Employees				
Research & Development	4724329	square feet	16535	Employees				
Industrial	221897	square feet	266	Employees				
Retail and Restaurant	132481	square feet	371	Employees				
Service Commercial	39932	square feet	120	Employees				
Motel Rooms	400	Rooms	160	Employees				
Church Building	1	Building	10	Employees				
Institutional/Recreation Trips	10469	Trips	1047	Employees				
Total			38,649		92,210	trips	605,210	shared
							1,208,320	total miles
Proposed North Bayshore Precise Plan 2030 (smaller unit residential)								
Single Family Dwelling Units	1	dwelllings	2	Residents				
Multi-Family Dwelling Units	10212	dwelllings	17998	Residents				
Office	5875378	square feet	23502	Employees				
Research & Development	3834661	square feet	13421	Employees				
Industrial	137671	square feet	165	Employees				
Retail and Restaurant	192931	square feet	532	Employees				
Service Commercial	24308	square feet	73	Employees				
Motel Rooms	400	Rooms	160	Employees				
Church Building	1	Building	10	Employees				
Institutional/Recreation Trips	10469	Trips	1047	Employees				
Total			56,910		132,820	or..	812,480	shared
					119,940		1,617,580	total miles

1 Based on Occupied Building Area (Table 3)

2 Based on estimated number of employees and residents (Table 5)

3 Based on shared and then total VMT

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

Speed Bin	Existing 2015												North Bayshore Precise Plan 2030												Proposed Northbay Shore Precise Plan (Smaller Unit Residential)											
	VMT	ROG	NOx	PM10	PM2.5	CO2	Trips	ROG	NOx	PM10	PM2.5	CO2	VMT	ROG	NOx	PM10	PM2.5	CO2	Trips	ROG	NOx	PM10	PM2.5	CO2	VMT	ROG	NOx	PM10	PM2.5	CO2	Trips	ROG	NOx	PM10	PM2.5	CO2
Sum/Total:	1,001,640	**217**	**1,637**	**408**	**87**	**1,065,860**	73450	49.4	56.3	0.44	0.4	12874.6	1,617,580	**155**	**1,297**	**623**	**109**	**1,457,047**	92210	12.6	70.7	0.38	0.35	16163	1,655,690	**224**	**2,395**	**556**	**101**	**1,730,844**	119940	16.3	70.7	0.38	0.35	16163
5	55,370	75	351	30	11	185,925							94,040	49	391	41	9	246,648							310,090	161	1,291	134	29	813,302						
10	26,400	46	306	18	8	97,408							49,400	28	382	21	5	161,277							189,230	106	1,463	82	18	617,781						
15	29,430	21	152	15	5	64,284							103,760	28	269	44	9	189,237							155,450	43	403	66	13	283,509						
20	66,210	31	342	33	11	119,477							189,630	28	319	80	16	264,504							190,250	28	320	80	16	265,369						
25	185,630	38	261	78	15	217,770							469,810	37	195	191	32	396,298							276,930	22	115	113	19	233,598						
30	245,080	33	131	100	17	218,980							378,250	20	53	153	25	224,779							323,960	17	46	131	22	192,516						
35	128,820	18	162	54	10	122,184							167,050	9	48	68	11	117,503							77,870	4	22	31	5	54,774						
40	87,400	10	98	36	7	75,990							40,980	2	9	17	3	26,418							40,260	2	9	16	3	25,954						
45	63,650	6	52	26	5	49,916							26,990	1	4	11	2	15,127							30,590	1	5	12	2	17,144						
50	31,710	4	56	13	3	30,203							19,740	1	5	8	1	14,761							23,890	1	6	10	2	17,864						
55	47,620	5	58	20	4	41,482							41,730	1	7	17	3	27,226							17,580	1	3	7	1	11,470						
60	26,030	3	14	11	2	20,865							29,090	1	3	12	2	15,748							13,840	1	1	6	1	7,492						
65	8,290	1	4	3	1	7,302							7,110	0	1	3	0	4,171							5,750	0	1	2	0	3,373						
70	0	0	0	0	0	0							0	0	0	0	0	0							0	0	0	0	0	0						

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

	Annual VMT	Trips Weekday	Sat	Sun	CalEEMod VMT Weekday
Existing 2015	129,803,731	68,719	25217	16516	310,611
	% of weekday	62%	23%	15%	
North Bayshore Precise Plan 2030	195,952,625	106,183	34259	20006	498,768
	% of weekday	66%	21%	12%	
Proposed North Bayshore Precise Plan 2030 (smaller unit residential)	351,637,465	177,039	99366	78119	675,375
	% of weekday	50%	28%	22%	

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

2015 Emission Rates by VMT (g/mi)

	Running Exhaust						Tire and Brake Wear		Entrained Roadway Dust	
Speed	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	PM10_PMTW+BW	PM2_5_PMTW+BW	PM10	PM2.5
5	0.615373			2.877642	1524.469	0.067464	0.064219	0.049725	0.019774	0.132471	0.009088
10	0.790485			5.254058	1675.122	0.120103	0.114761	0.049725	0.019774	0.132471	0.009088
15	0.322469			2.35229	991.6734	0.049614	0.047344	0.049725	0.019774	0.132471	0.009088
20	0.215225			2.34557	819.2498	0.047278	0.045133	0.049725	0.019774	0.132471	0.009088
25	0.093546			0.6385	532.6048	0.009041	0.008564	0.049725	0.019774	0.132471	0.009088
30	0.061034			0.242897	405.6512	0.003202	0.00299	0.049725	0.019774	0.132471	0.009088
35	0.063221			0.571209	430.614	0.007192	0.006824	0.049725	0.019774	0.132471	0.009088
40	0.054206			0.509579	394.7331	0.006745	0.006403	0.049725	0.019774	0.132471	0.009088
45	0.045825			0.370137	356.0352	0.004519	0.004276	0.049725	0.019774	0.132471	0.009088
50	0.053754			0.799623	432.4191	0.010356	0.009866	0.049725	0.019774	0.132471	0.009088
55	0.049065			0.555046	395.4788	0.008496	0.008084	0.049725	0.019774	0.132471	0.009088
60	0.04603			0.252776	363.9091	0.004088	0.003861	0.049725	0.019774	0.132471	0.009088
65	0.050562			0.231068	399.8831	0.003098	0.002907	0.049725	0.019774	0.132471	0.009088
70											

2015 Emission Rates by Trip (g/trip)

Trips	ROG_STREX	NOx_STREX	CO2_STREX	PM10_STREX	PM2_5_STREX
8144196	0.305214	0.347891	79.57909	0.002694	0.002485

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

2030 Emission Rates by VMT (g/mi)

	Running Exhaust						Tire and Brake Wear		Entrained Roadway Dust	
Speed	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	PM10_PMTW+BW	PM2_5_PMTW+BW	PM10	PM2.5
5	0.235899			1.889515	1190.749	0.014707	0.013818	0.049322	0.019581	0.132471	0.009088
10	0.253939			3.510944	1482.178	0.015587	0.014814	0.049322	0.019581	0.132471	0.009088
15	0.124434			1.178437	828.0038	0.009842	0.009326	0.049322	0.019581	0.132471	0.009088
20	0.066755			0.764808	633.2579	0.009325	0.008845	0.049322	0.019581	0.132471	0.009088
25	0.035323			0.188027	382.9619	0.002786	0.002599	0.049322	0.019581	0.132471	0.009088
30	0.023466			0.064182	269.7937	0.001676	0.001547	0.049322	0.019581	0.132471	0.009088
35	0.023227			0.129995	319.3444	0.00171	0.001593	0.049322	0.019581	0.132471	0.009088
40	0.019226			0.100472	292.6724	0.001448	0.001347	0.049322	0.019581	0.132471	0.009088
45	0.016633			0.071624	254.4438	0.001231	0.001141	0.049322	0.019581	0.132471	0.009088
50	0.017412			0.118837	339.4845	0.001675	0.001571	0.049322	0.019581	0.132471	0.009088
55	0.016176			0.080717	296.1993	0.00137	0.001277	0.049322	0.019581	0.132471	0.009088
60	0.01649			0.049127	245.77	0.00115	0.001062	0.049322	0.019581	0.132471	0.009088
65	0.018747			0.049042	266.3472	0.001274	0.001174	0.049322	0.019581	0.132471	0.009088
70											

2030 Emission Rates by Trip (g/trip)

Trips	ROG_STREX	NOx_STREX	CO2_STREX	PM10_STREX	PM2_5_STREX
9972519	0.061806	0.347891	79.57909	0.001864	0.001715

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2015
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNI	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX	ROG_RUNI	NOx_RUNE	CO2_RUNE	PM10_RUI	PM2_5_RUNEX
Santa Clara	2015	HHDT	Aggregate	5	GAS	37	6.600123	247.3122	9.250352	86.18537	8.469856	317.3726	4338.55	162569.3	0.008447	0.316533	0.007869	0.294863
Santa Clara	2015	HHDT	Aggregate	5	DSL	4363	2.018265	8806.433	3.752452	6.650738	23.06806	100654.4	4463.956	19477877	0.231918	1011.942	0.221885	968.1656
Santa Clara	2015	LDA	Aggregate	5	GAS	34805	0.165466	5759.064	0.23166	2.218381	0.187059	6510.597	1034.803	36016394	0.011207	390.0693	0.010315	359.0188
Santa Clara	2015	LDA	Aggregate	5	DSL	280	0.26981	75.48268	0.307161	3.210375	0.28289	79.14191	778.8672	217897.8	0.089666	25.08516	0.085787	23.99999
Santa Clara	2015	LDT1	Aggregate	5	GAS	2683	0.461474	1238.055	0.614633	6.421806	0.483533	1297.234	1198.788	3216139	0.021513	57.71614	0.019844	53.23906
Santa Clara	2015	LDT1	Aggregate	5	DSL	2	0.98061	2.401901	1.116359	4.171876	0.952054	2.331957	988.8775	2422.152	0.748701	1.833865	0.716313	1.754533
Santa Clara	2015	LDT2	Aggregate	5	GAS	11687	0.214685	2509.089	0.300791	2.977004	0.33896	3961.527	1399.377	16354956	0.010786	126.0568	0.009931	116.0614
Santa Clara	2015	LDT2	Aggregate	5	DSL	17	0.270331	4.538697	0.307754	2.043478	0.180351	3.027982	958.4528	16091.83	0.032884	0.55211	0.031462	0.528226
Santa Clara	2015	LHDT1	Aggregate	5	GAS	16491	0.422388	6965.403	0.608347	4.994469	0.757221	12486.97	1407.054	23203051	0.010598	174.7739	0.009753	160.8259
Santa Clara	2015	LHDT1	Aggregate	5	DSL	6831	0.767994	5246.323	0.87431	2.948711	3.478929	23765.27	1301.03	8887605	0.122991	840.1784	0.117671	803.8327
Santa Clara	2015	LHDT2	Aggregate	5	GAS	2519	0.331144	834.1783	0.479528	3.529286	0.686111	1728.37	1499.386	3777075	0.009195	23.16255	0.008458	21.30608
Santa Clara	2015	LHDT2	Aggregate	5	DSL	2809	0.741135	2081.976	0.843733	2.733195	2.73247	7675.978	1370.978	3851313	0.097792	274.7134	0.093561	262.8295
Santa Clara	2015	MCY	Aggregate	5	GAS	333	13.11046	4367.685	15.78343	61.02005	1.438183	479.1235	539.557	179750.7	0.008123	2.706254	0.00766	2.551783
Santa Clara	2015	MDV	Aggregate	5	GAS	6938	0.369234	2561.833	0.519887	4.577925	0.566918	3933.413	1802.198	12504091	0.012046	83.57737	0.011092	76.95659
Santa Clara	2015	MDV	Aggregate	5	DSL	84	0.206505	17.44505	0.235092	3.238348	0.170548	14.40752	1204.328	101738.9	0.028091	2.373024	0.026875	2.270368
Santa Clara	2015	MH	Aggregate	5	GAS	285	1.627379	464.1858	2.107344	29.87481	1.473089	420.1766	3944.605	1125140	0.019587	5.586789	0.018181	5.185883
Santa Clara	2015	MH	Aggregate	5	DSL	62	1.186053	72.9634	1.350242	2.454899	17.2128	1058.894	2116.411	130197	0.469598	28.88865	0.449283	27.63894
Santa Clara	2015	MHDT	Aggregate	5	GAS	543	1.547251	840.2639	2.199278	15.43236	2.631088	1428.862	3926.58	2132403	0.011371	6.175115	0.010493	5.69821
Santa Clara	2015	MHDT	Aggregate	5	DSL	3687	2.857513	10535.68	3.253061	3.988745	15.01317	55353.7	2331.021	8594496	0.49707	1832.7	0.475567	1753.418
Santa Clara	2015	OBUS	Aggregate	5	GAS	328	0.498647	163.5757	0.718843	4.184043	1.034048	339.2079	3927.193	1288272	0.004076	1.337054	0.003753	1.231224
Santa Clara	2015	OBUS	Aggregate	5	DSL	334	1.709769	571.4408	1.946442	3.143943	16.25331	5432.2	2651.273	886111.3	0.235429	78.6855	0.225245	75.2816
Santa Clara	2015	SBUS	Aggregate	5	GAS	83	1.523652	126.5998	2.223309	12.05652	2.451533	203.6971	1861.869	154702.2	0.012923	1.073769	0.011882	0.987291
Santa Clara	2015	SBUS	Aggregate	5	DSL	172	1.271545	218.4924	1.447558	1.618089	22.69412	3899.581	2388.542	410428.4	0.314834	54.09862	0.301214	51.75834
Santa Clara	2015	UBUS	Aggregate	5	GAS	196	4.020631	786.5286	5.696733	28.83494	2.605067	509.6114	3913.244	765521.4	0.010826	2.117872	0.010039	1.963917
Santa Clara	2015	UBUS	Aggregate	5	DSL	935	5.22884	4890.032	6.817635	15.84155	49.35162	46153.84	3917.587	3663743	1.587865	1484.978	1.519175	1420.738
Santa Clara	2015	HHDT	Aggregate	10	GAS	146	4.229541	618.6831	5.910865	72.48219	7.354692	1075.82	3680.222	538330.6	0.005521	0.807655	0.005148	0.752997
Santa Clara	2015	HHDT	Aggregate	10	DSL	13649	1.664323	22716.77	2.7713	5.235408	18.85694	257383.1	3767.593	51424845	0.209585	2860.683	0.200519	2736.931
Santa Clara	2015	LDA	Aggregate	10	GAS	24106	0.106769	2573.818	0.148867	1.932284	0.164384	3962.705	763.873	18414259	0.007133	171.944	0.006566	158.2718
Santa Clara	2015	LDA	Aggregate	10	DSL	194	0.195998	37.97805	0.223131	2.382338	0.271561	52.6197	648.8699	125729.7	0.063937	12.38895	0.061171	11.85301
Santa Clara	2015	LDT1	Aggregate	10	GAS	1858	0.310936	577.7685	0.412085	5.282923	0.417874	776.4767	885.2561	1644948	0.014085	26.17203	0.012995	24.14677
Santa Clara	2015	LDT1	Aggregate	10	DSL	2	0.684838	1.161816	0.779642	2.975841	0.997701	1.692584	832.404	1412.159	0.521506	0.884725	0.498945	0.846453
Santa Clara	2015	LDT2	Aggregate	10	GAS	8095	0.139204	1126.825	0.194285	2.585893	0.294954	2387.585	1033.182	8363385	0.006885	55.731	0.00634	51.31821
Santa Clara	2015	LDT2	Aggregate	10	DSL	12	0.200581	2.332467	0.228348	1.524784	0.159243	1.851765	806.7935	9381.836	0.02463	0.286416	0.023565	0.274026
Santa Clara	2015	LHDT1	Aggregate	10	GAS	36067	0.278951	10061.01	0.401525	3.896267	0.669056	24131.06	1383.955	49915575	0.006772	244.2427	0.006232	224.7667
Santa Clara	2015	LHDT1	Aggregate	10	DSL	17486	0.547792	9578.459	0.623625	2.125969	3.608618	63098.76	1093.719	19124306	0.087177	1524.341	0.083406	1458.398
Santa Clara	2015	LHDT2	Aggregate	10	GAS	5510	0.215872	1189.373	0.312464	2.838975	0.601847	3315.951	1556.299	8574622	0.005845	32.20417	0.005377	29.6242
Santa Clara	2015	LHDT2	Aggregate	10	DSL	7191	0.534741	3845.07	0.608767	1.985756	2.802057	20148.28	1218.431	8761167	0.070263	505.2296	0.067224	483.3736
Santa Clara	2015	MCY	Aggregate	10	GAS	231	8.755323	2020.208	10.52159	46.22278	1.345376	310.4329	400.2059	92343.74	0.005456	1.258949	0.005146	1.187497
Santa Clara	2015	MDV	Aggregate	10	GAS	4806	0.239173	1149.349	0.335609	3.92154	0.490913	2359.092	1330.664	6394529	0.007722	37.10863	0.007111	34.17319
Santa Clara	2015	MDV	Aggregate	10	DSL	59	0.153181	8.962694	0.174387	2.419529	0.149496	8.747096	1022.768	59842.52	0.021319	1.247391	0.020397	1.193429
Santa Clara	2015	MH	Aggregate	10	GAS	1502	1.105648	1660.636	1.426824	21.85812	1.348979	2026.107	3367.365	5057635	0.012918	19.40292	0.011998	18.02002
Santa Clara	2015	MH	Aggregate	10	DSL	318	0.900099	285.8821	1.024703	2.027875	14.32878	4550.988	1921.711	610357.8	0.39704	126.1047	0.379865	120.6495
Santa Clara	2015	MHDT	Aggregate	10	GAS	2860	0.995603	2847.052	1.411984	12.82601	2.306879	6596.811	3351.978	9585403	0.007291	20.84906	0.00673	19.24479
Santa Clara	2015	MHDT	Aggregate	10	DSL	19036	2.171192	41330.26	2.471737	3.290941	12.4671	237320.4	2089.113	39767812	0.418365	7963.897	0.400267	7619.382
Santa Clara	2015	OBUS	Aggregate	10	GAS	1727	0.3163	546.3596	0.455416	3.656004	0.901483	1557.174	3352.501	5790933	0.002582	4.459842	0.002378	4.107451
Santa Clara	2015	OBUS	Aggregate	10	DSL	1719	1.321418	2271.413	1.504334	2.582113	13.494	23195.11	2366.948	4068595	0.196724	338.1534	0.188214	323.525
Santa Clara	2015	SBUS	Aggregate	10	GAS	291	0.960744	279.7928	1.401915	11.00272	2.121106	617.7194	1589.41	462876.1	0.008131	2.367988	0.007476	2.177277
Santa Clara	2015	SBUS	Aggregate	10	DSL	602	0.986865	594.3521	1.12347	1.393857	18.66383	11240.54	2154.167	1297375	0.26267	158.1962	0.251307	151.3527
Santa Clara	2015	UBUS	Aggregate	10	GAS	650	2.741309	1783.012	3.881694	21.71249	2.393047	1556.494	3340.593	2172801	0.007225	4.699621	0.006703	4.359576
Santa Clara	2015	UBUS	Aggregate	10	DSL	3109	3.998803	12434.04	5.20333	13.50337	40.80033	126866.2	3557.186	11060861	1.302441	4049.863	1.246098	3874.668
Santa Clara	2015	HHDT	Aggregate	15	GAS	162	2.856852	462.6675	3.979456	62.81789	6.533498	1058.101	2654.805	429945.8	0.003804	0.616025	0.003549	0.574791
Santa Clara	2015	HHDT	Aggregate	15	DSL	14640	1.078195	15784.79	1.458779	3.409971	13.31921	194993.3	2785.11	40774032	0.165962	2429.689	0.158783	2324.582
Santa Clara	2015	LDA	Aggregate	15	GAS	102594	0.072872	7476.247	0.101302	1.717868	0.144793	14854.87	588.3227	60358250	0.004787	491.1225	0.004407	452.1336
Santa Clara	2015	LDA	Aggregate	15	DSL	825	0.114764	94.63969	0.130651	1.263917	0.247295	203.9311	533.6937	440109	0.047417	39.10255	0.045366	37.411
Santa Clara	2015	LDT1	Aggregate	15	GAS	7908	0.219251	1733.857	0.289698	4.472596	0.364406	2881.755	681.7862	5391621	0.009704	76.73954	0.008955	70.81512
Santa Clara	2015	LDT1	Aggregate	15	DSL	7	0.491361	3.547629	0.559382	2.161101	1.040261	7.51069	690.2001	4983.248	0.380074	2.744134	0.363632	2.625424
Santa Clara	2015	LDT2	Aggregate	15	GAS	34450	0.095399	3286.523	0.132785	2.292391	0.257647	8876.021	795.7268	27413039	0.004634	159.6296	0.004267	147.008
Santa Clara	2015	LDT2	Aggregate	15	DSL	49	0.103637	5.128943	0.117984	0.768335	0.12318	6.096146	668.9648	33106.76	0.018906	0.935626	0.018088	0.895151
Santa Clara	2015	LHDT1	Aggregate	15	GAS	91862	0.193778	17800.79	0.27875	3.174214	0.603804	55466.5	961.4155	88317382	0.004565	419.305	0.004201	385.8965
Santa Clara	2015	LHDT1	Aggregate	15	DSL	44025	0.353939	15582.23	0.402936	1.429703	3.723418	163923.8	714.29	31446685	0.064369	2833.87	0.061585	2711.278
Santa Clara	2015	LHDT2	Aggregate	15	GAS	14033	0.148144	2078.869	0.214328	2.371197	0.539011	7563.802	1094.792	15362949	0.00392	55.00826	0.003606	50.60341
Santa Clara	2015	LHDT2	Aggregate	15	DSL	18104	0.325077	5885.287	0.370079	1.259643	2.844253	51493.16	811.0729	14683893	0.052396	948.5971	0.05013	907.5612
Santa Clara	2015	MCY	Aggregate	15	GAS	982	6.087601	5978.037	7.306547	36.0324	1.263647	1240.903	308.095	302549.6	0.003854	3.784361	0.003636	3.570672
Santa Clara	2015	MDV	Aggregate	15	GAS	20452	0.163821	3350.403	0.229322	3.438676	0.427426	8741.558	1024.833	20959525	0.005218	106.7198	0.004806	98.28981
Santa Clara	2015	MDV	Aggregate	15	DSL	249	0.07928	19.74174	0.090255	1.203906	0.113776	28.3317	867.3757	215987.2	0.016508	4.110627	0.015794	3.932803
Santa Clara	2015	MH	Aggregate	15	GAS	1694	0.784896	1329.713	1.012029	16.70559	1.243024	2105.835	2321.131	3932282	0.008975	15.20475	0.008339	14.12791
Santa Clara	2015	MH	Aggregate	15	DSL	387	0.464193	179.5879	0.528453	1.346906	9.96224	3854.208	1577.891	610457.1	0.27843	107.7194	0.266385	103.0595
Santa Clara	2015	MHDT	Aggregate	15	GAS	3225	0.677696	2185.908	0.959741	11.00295	2.034713	6562.966	2310.524	7452595	0.004931	15.90569	0.004553	14.6862
Santa Clara	2015	MHDT	Aggregate	15	DSL	23187	1.146991	26595.71	1.305762	2.234361	8.872643	205733.2	1740.427	40355928	0.291061	6748.942	0.27847	6456.986
Santa Clara	2015	OBUS	Aggregate	15	GAS	1948	0.212564	414.1501	0.305795	3.257723	0.790319	1539.818	2310.885	4502417	0.001725	3.361847	0.001589	3.096674
Santa Clara	2015	OBUS	Aggregate	15	DSL	2042	0.754057	1539.803	0.858436	1.774962	9.677549	19761.8	1966.745	4016144	0.134859	275.386	0.129025	263.4729
Santa Clara	2015	SBUS	Aggregate	15	GAS	582	0.637719	371.4396	0.930558	10.04733	1.872822	1090.826	1095.583	638122.6	0.005397	3.143627	0.004963	2.890449
Santa Clara	2015	SBUS	Aggregate	15	DSL	1205	0.549703	662.1319	0.625795	1.045709	12.97537	15629.17	1781.326	2145653	0.178306	214.7742	0.170593	205.4831
Santa Clara	2015	UBUS	Aggregate	15	GAS	1103	1.962818	2165.91	2.778015	17.16457	2.236087	2467.454	2302.677	2540934	0.005074	5.59943	0.004709	5.195987
Santa Clara	2015	UBUS	Aggregate	15	DSL	5275	2.103354	11095.8	2.720293	9.658976	28.36652	149641.6	2920.758	15407848	0.841037	4436.714	0.804654	4244.784
Santa Clara	2015	HHDT	Aggregate	20	GAS	300	2.03389	609.1554	2.8218	55.61291	5.950894	1782.308	2144.91	642406.3	0.002761	0.826812	0.002578	0.772035
Santa Clara	2015	HHDT	Aggregate	20	DSL	46105	0.739897	34112.78	0.884848	2.661956	11.08369	511010.6	2261.511	1.04E+08	0.186305	8589.54	0.178245	8217.961
Santa Clara	2015	LDA	Aggregate	20	GAS	375495	0.052409	19679.44	0.072639	1.5465	0.130248	48907.43	470.3918	1.77E+08	0.003387	1271.711	0.003118	1170.811
Santa Clara	2015	LDA	Aggregate	20	DSL	3018	0.066212	199.8417	0.075378	0.607049	0.233411	704.486	437.8021	1321384	0.036611	110.5012	0.035028	105.7209
Santa Clara	2015	LDT1	Aggregate	20	GAS	28944	0.162391	4700.189	0.213913	3.886132	0.326566	9452.021	545.0919	15776986	0.007028	203.4126	0.006487	187.7445
Santa Clara	2015	LDT1	Aggregate	20	DSL	26	0.368852	9.747052	0.419914	1.65374	1.086272	28.70511	567.0521	14984.54	0.289827	7.658767	0.277289	7.327452
Santa Clara	2015	LDT2	Aggregate	20	GAS	126089	0.068845	8680.609	0.095564	2.058944	0.230195	29025.04	636.2052	80218319	0.003287	414.3934	0.003027	381.6736
Santa Clara	2015	LDT2	Aggregate	20	DSL	181	0.046746	8.46717	0.053217	0.326072	0.098957	17.92432	549.6056	99551.47	0.014944	2.706888	0.014298	2.589789
Santa Clara	2015	LHDT1	Aggregate	20	GAS	103841	0.141246	14667.17	0.203019	2.677446	0.557297	57870.53	834.7204	86678603	0.003245	336.9561	0.002987	310.1298
Santa Clara	2015	LHDT1	Aggregate	20	DSL	47029	0.235554	11077.87	0.268163	1.005821	3.855547	181322.5	608.8244	28632401	0.049547	2330.123	0.047403	2229.323
Santa Clara	2015	LHDT2	Aggregate	20	GAS	15863	0.106782	1693.851	0.154397	2.037513	0.493581	7829.556	958.129	15198569	0.002773	43.98845	0.002551	40.46759
Santa Clara	2015	LHDT2	Aggregate	20	DSL	19340	0.198856	3845.783	0.226384	0.822972	2.912308	56322.79	691.7855	13378833	0.040612	785.4152	0.038855	751.4385
Santa Clara	2015	MCY	Aggregate	20	GAS	3594	4.462422	16038.57	5.349596	29.49632	1.208004	4341.734	246.1733	884781.6	0.002861	10.28189	0.0027	9.703939
Santa Clara	2015	MDV	Aggregate	20	GAS	74853	0.118147	8843.687	0.164986	3.066533	0.381184	28532.91	819.376	61333044	0.003715	278.0634	0.003422	256.129
Santa Clara	2015	MDV	Aggregate	20	DSL	911	0.035903	32.72159	0.040873	0.493902	0.089662	81.71667	720.3521	656521.2	0.013124	11.96138	0.012557	11.44393
Santa Clara	2015	MH	Aggregate	20	GAS	1851	0.587873	1088.243	0.755973	13.50194	1.177928	2180.525	1631.949	3020988	0.006564	12.15151	0.006102	11.2959
Santa Clara	2015	MH	Aggregate	20	DSL	430	0.209623	90.05722	0.238642	0.896708	7.507755	3225.45	1294.847	556286.8	0.195159	83.84348	0.186717	80.21645
Santa Clara	2015	MHDT	Aggregate	20	GAS	3524	0.484927	1709.111	0.685328	9.660554	1.844192	6499.805	1624.492	5725479	0.003517	12.39639	0.003248	11.44925
Santa Clara	2015	MHDT	Aggregate	20	DSL	25749	0.563579	14511.37	0.641592	1.538619	6.803515	175181	1485.44	38247990	0.202545	5215.255	0.193783	4989.645
Santa Clara	2015	OBUS	Aggregate	20	GAS	2129	0.150049	319.4456	0.215605	2.930494	0.711714	1515.2	1624.746	3458996	0.001216	2.589733	0.001121	2.385812
Santa Clara	2015	OBUS	Aggregate	20	DSL	2269	0.428867	973.0359	0.488233	1.262607	7.545006	17118.49	1699.355	3855583	0.093048	211.1111	0.089022	201.9785
Santa Clara	2015	SBUS	Aggregate	20	GAS	791	0.446668	353.1275	0.651777	9.201728	1.679496	1327.779	770.2865	608974.4	0.003779	2.98797	0.003475	2.747328
Santa Clara	2015	SBUS	Aggregate	20	DSL	1635	0.277166	453.1523	0.315533	0.789779	10.02339	16387.73	1490.791	2437367	0.119976	196.154	0.114786	187.6684
Santa Clara	2015	UBUS	Aggregate	20	GAS	9656	1.472581	14219.04	2.082964	14.17662	2.12866	20554.04	1618.975	15632599	0.003748	36.1882	0.003479	33.59068
Santa Clara	2015	UBUS	Aggregate	20	DSL	46161	0.960739	44348.88	1.231353	6.923856	22.16379	1023107	2396.829	1.11E+08	0.525559	24260.44	0.502824	23210.95
Santa Clara	2015	HHDT	Aggregate	25	GAS	401	1.527249	612.8091	2.112545	49.97446	5.456777	2189.534	2017.869	809670.9	0.00211	0.846495	0.001971	0.790945
Santa Clara	2015	HHDT	Aggregate	25	DSL	33676	0.462957	15590.63	0.588844	1.830997	8.694518	292798.1	2102.017	70787887	0.099564	3352.939	0.095257	3207.892
Santa Clara	2015	LDA	Aggregate	25	GAS	906299	0.039652	35936.55	0.054796	1.403292	0.119368	108183.2	390.0586	3.54E+08	0.002525	2288.321	0.002325	2106.952
Santa Clara	2015	LDA	Aggregate	25	DSL	7285	0.048446	352.9203	0.055153	0.416751	0.231967	1689.836	366.9839	2673411	0.029465	214.6462	0.02819	205.3607
Santa Clara	2015	LDT1	Aggregate	25	GAS	69859	0.126077	8807.569	0.165567	3.443774	0.29975	20940.22	452.0049	31576559	0.005345	373.419	0.004935	344.7199
Santa Clara	2015	LDT1	Aggregate	25	DSL	64	0.293065	18.69183	0.333635	1.360988	1.135897	72.44808	475.4527	30324.62	0.231252	14.74934	0.221248	14.11129
Santa Clara	2015	LDT2	Aggregate	25	GAS	304329	0.052228	15894.38	0.072302	1.865155	0.209842	63860.98	527.5564	1.61E+08	0.002456	747.2926	0.002262	688.3674
Santa Clara	2015	LDT2	Aggregate	25	DSL	437	0.03066	13.40414	0.034905	0.208114	0.089005	38.91151	460.8245	201464.9	0.012218	5.341701	0.01169	5.110621
Santa Clara	2015	LHDT1	Aggregate	25	GAS	81758	0.107981	8828.288	0.155043	2.326223	0.527349	43114.74	765.1604	62557640	0.002432	198.862	0.002239	183.0417
Santa Clara	2015	LHDT1	Aggregate	25	DSL	49514	0.180865	8955.314	0.205903	0.807473	4.030843	199582.4	539.9692	26735936	0.03979	1970.176	0.038069	1884.947
Santa Clara	2015	LHDT2	Aggregate	25	GAS	12489	0.080804	1009.179	0.116749	1.791402	0.46336	5787.006	866.3933	10820586	0.002069	25.83907	0.001903	23.77179
Santa Clara	2015	LHDT2	Aggregate	25	DSL	20361	0.14857	3025.082	0.169137	0.644867	3.028499	61664.44	616.4891	12552576	0.032771	667.254	0.031353	638.3888
Santa Clara	2015	MCY	Aggregate	25	GAS	8675	3.443389	29870.92	4.123477	25.19656	1.172067	10167.52	204.1517	1770987	0.002231	19.35204	0.002106	18.26858
Santa Clara	2015	MDV	Aggregate	25	GAS	180667	0.089562	16180.89	0.124769	2.766028	0.347271	62740.42	679.4467	1.23E+08	0.002784	503.0613	0.002565	463.4319
Santa Clara	2015	MDV	Aggregate	25	DSL	2200	0.023598	51.91024	0.026865	0.308171	0.079541	174.9697	609.1318	1339931	0.010771	23.69365	0.010305	22.66867
Santa Clara	2015	MH	Aggregate	25	GAS	2091	0.461659	965.3344	0.592442	11.40518	1.131316	2365.598	1425.038	2979774	0.005052	10.5634	0.004698	9.823519
Santa Clara	2015	MH	Aggregate	25	DSL	439	0.14791	64.95948	0.168385	0.715574	6.741646	2960.82	1161.425	510078.9	0.161043	70.72734	0.154076	67.66771
Santa Clara	2015	MHDT	Aggregate	25	GAS	3981	0.365828	1456.413	0.516054	8.642942	1.696614	6754.476	1418.527	5647370	0.002645	10.52921	0.002443	9.727381
Santa Clara	2015	MHDT	Aggregate	25	DSL	26322	0.411128	10821.72	0.468038	1.226025	5.991885	157718.6	1351.556	35575702	0.16662	4385.774	0.159412	4196.048
Santa Clara	2015	OBUS	Aggregate	25	GAS	2405	0.111761	268.7632	0.160414	2.662308	0.650481	1564.277	1418.748	3411807	0.000905	2.175247	0.000833	2.004248

Santa Clara	2015	OBUS	Aggregate	25	DSL	2315	0.310676	719.1259	0.353681	0.966531	6.665825	15429.47	1546.534	3579781	0.075698	175.2197	0.072424	167.6398
Santa Clara	2015	SBUS	Aggregate	25	GAS	1248	0.32985	411.6481	0.481316	8.445194	1.532258	1912.237	672.6237	839425.1	0.002792	3.484425	0.002567	3.2038
Santa Clara	2015	SBUS	Aggregate	25	DSL	2581	0.197772	510.4253	0.225149	0.63554	9.275657	23939.32	1345.589	3472798	0.09642	248.8481	0.092249	238.083
Santa Clara	2015	UBUS	Aggregate	25	GAS	124	1.171275	145.5981	1.658197	12.1633	2.014808	250.4554	1413.709	175734.4	0.00291	0.361674	0.002701	0.335801
Santa Clara	2015	UBUS	Aggregate	25	DSL	594	0.669457	397.8197	0.853131	5.560199	20.85367	12390.68	2149.859	1277583	0.401496	238.5062	0.384127	228.2746
Santa Clara	2015	HHDT	Aggregate	30	GAS	712	1.208708	859.9995	1.667593	45.53056	5.080126	3614.526	1921.227	1366959	0.001697	1.207282	0.001586	1.128737
Santa Clara	2015	HHDT	Aggregate	30	DSL	55183	0.360399	19887.77	0.442514	1.428182	7.827923	431965.8	1932.769	1.07E+08	0.088564	4887.219	0.084733	4675.8
Santa Clara	2015	LDA	Aggregate	30	GAS	7311160	0.031566	230786.1	0.043506	1.284194	0.111167	812761.9	335.8264	2.46E+09	0.001983	14497.77	0.001826	13349.86
Santa Clara	2015	LDA	Aggregate	30	DSL	58767	0.039386	2314.585	0.044838	0.337198	0.235621	13846.71	317.8754	18680582	0.024788	1456.708	0.023716	1393.692
Santa Clara	2015	LDT1	Aggregate	30	GAS	563555	0.102506	57767.96	0.134225	3.108066	0.280776	158232.7	389.1518	2.19E+08	0.004267	2404.426	0.003939	2220.04
Santa Clara	2015	LDT1	Aggregate	30	DSL	515	0.244358	125.727	0.278185	1.185589	1.187293	610.887	411.132	211535.9	0.19308	99.34355	0.184727	95.04599
Santa Clara	2015	LDT2	Aggregate	30	GAS	2455040	0.041654	102261	0.05752	1.704848	0.194648	477867.3	454.2025	1.12E+09	0.001932	4742.871	0.00178	4369.375
Santa Clara	2015	LDT2	Aggregate	30	DSL	3527	0.023994	84.62121	0.027315	0.1625	0.084853	299.2584	398.4828	1405362	0.010419	36.74551	0.009968	35.15592
Santa Clara	2015	LHDT1	Aggregate	30	GAS	69298	0.087347	6052.969	0.125353	2.088082	0.499604	34621.33	694.4313	48122405	0.001922	133.1897	0.001769	122.6013
Santa Clara	2015	LHDT1	Aggregate	30	DSL	39650	0.149281	5918.913	0.169946	0.697077	4.19944	166505.8	490.3504	19442163	0.033412	1324.787	0.031967	1267.478
Santa Clara	2015	LHDT2	Aggregate	30	GAS	10586	0.064764	685.5866	0.093537	1.618365	0.435719	4612.458	783.0862	8289636	0.001628	17.22976	0.001497	15.85183
Santa Clara	2015	LHDT2	Aggregate	30	DSL	16305	0.121593	1982.558	0.138425	0.551645	3.145982	51295.02	555.9749	9065133	0.027632	450.5351	0.026436	431.0452
Santa Clara	2015	MCY	Aggregate	30	GAS	69981	2.790929	195310.7	3.339028	22.33981	1.149982	80476.32	175.7206	12297023	0.001827	127.8291	0.001725	120.6972
Santa Clara	2015	MDV	Aggregate	30	GAS	1457449	0.071374	104023.8	0.09921	2.52295	0.322274	469698.1	584.9714	8.53E+08	0.002197	3201.352	0.002024	2949.489
Santa Clara	2015	MDV	Aggregate	30	DSL	17745	0.018482	327.9722	0.021041	0.237787	0.075106	1332.781	526.1002	9335865	0.009214	163.5079	0.008815	156.4346
Santa Clara	2015	MH	Aggregate	30	GAS	2273	0.380835	865.6798	0.487638	10.08149	1.103633	2508.68	1309.552	2976756	0.004089	9.294495	0.003804	8.646546
Santa Clara	2015	MH	Aggregate	30	DSL	533	0.120417	64.15253	0.137087	0.608025	6.327493	3370.99	1090.173	580793	0.142601	75.97086	0.136432	72.6844
Santa Clara	2015	MHDT	Aggregate	30	GAS	4328	0.2907	1258.105	0.409299	7.855652	1.589151	6877.612	1303.568	5641650	0.002096	9.071106	0.001937	8.382438
Santa Clara	2015	MHDT	Aggregate	30	DSL	31930	0.330259	10545.16	0.375974	1.032749	5.53464	176721.1	1268.577	40505676	0.147543	4711.051	0.14116	4507.253
Santa Clara	2015	OBUS	Aggregate	30	GAS	2614	0.087728	229.3405	0.125776	2.437111	0.605339	1582.492	1303.771	3408351	0.000709	1.854467	0.000654	1.708915
Santa Clara	2015	OBUS	Aggregate	30	DSL	2843	0.240372	683.3475	0.273645	0.772201	6.219516	17681.3	1454.992	4136359	0.065994	187.6131	0.063139	179.497
Santa Clara	2015	SBUS	Aggregate	30	GAS	1497	0.256978	384.762	0.374982	7.772076	1.420359	2126.64	618.1137	925474.1	0.002176	3.257934	0.002001	2.99555
Santa Clara	2015	SBUS	Aggregate	30	DSL	3096	0.159447	493.7065	0.181518	0.524347	8.890077	27526.99	1262.594	3909461	0.082491	255.4221	0.078922	244.3726
Santa Clara	2015	UBUS	Aggregate	30	GAS	123	0.966646	119.2298	1.367888	10.83306	1.971117	243.1252	1299.141	160241.1	0.002373	0.292708	0.002204	0.271831
Santa Clara	2015	UBUS	Aggregate	30	DSL	590	0.535178	315.5744	0.679501	4.633252	20.24331	11936.73	2017.967	1189920	0.328472	193.6877	0.314263	185.3089
Santa Clara	2015	HHDT	Aggregate	35	GAS	1315	1.007982	1325.512	1.387137	42.00436	4.812436	6328.426	1842.61	2423059	0.001436	1.888119	0.001343	1.766224
Santa Clara	2015	HHDT	Aggregate	35	DSL	102804	0.276289	28403.67	0.347223	1.142017	7.27761	748169.4	1849.153	1.9E+08	0.079079	8129.666	0.075658	7777.98
Santa Clara	2015	LDA	Aggregate	35	GAS	1592592	0.026415	42067.94	0.036304	1.181949	0.105674	168296.3	299.7103	4.77E+08	0.00164	2612.094	0.00151	2405.472
Santa Clara	2015	LDA	Aggregate	35	DSL	12801	0.033618	430.3502	0.038272	0.288783	0.241327	3089.284	287.353	3678471	0.021755	278.4861	0.020814	266.4389
Santa Clara	2015	LDT1	Aggregate	35	GAS	122759	0.087385	10727.29	0.11405	2.85194	0.26941	33072.64	347.3283	42637807	0.003572	438.4692	0.003298	404.9179
Santa Clara	2015	LDT1	Aggregate	35	DSL	112	0.213244	23.90005	0.242765	1.088054	1.2402	138.9993	371.0625	41588	0.168683	18.9057	0.161386	18.08785
Santa Clara	2015	LDT2	Aggregate	35	GAS	534782	0.03489	18658.57	0.048053	1.568278	0.184558	98698.5	405.3712	2.17E+08	0.0016	855.6344	0.001474	788.338
Santa Clara	2015	LDT2	Aggregate	35	DSL	768	0.019766	15.18505	0.022502	0.134098	0.082905	63.69089	359.646	276294.4	0.009218	7.08136	0.008819	6.775024
Santa Clara	2015	LHDT1	Aggregate	35	GAS	26828	0.073668	1976.394	0.105597	1.912407	0.489905	13143.31	694.4313	18630390	0.001601	42.94182	0.001473	39.53018
Santa Clara	2015	LHDT1	Aggregate	35	DSL	21684	0.129135	2800.138	0.147012	0.634665	4.398196	95369.57	490.3504	10632658	0.029291	635.1456	0.028024	607.6695
Santa Clara	2015	LHDT2	Aggregate	35	GAS	4098	0.054182	222.0537	0.07819	1.481615	0.424197	1738.475	783.0862	3209298	0.00135	5.332551	0.001242	5.090259
Santa Clara	2015	LHDT2	Aggregate	35	DSL	8917	0.104404	930.9697	0.118858	0.498171	3.288403	29322.52	555.9749	4957600	0.024284	216.5366	0.023233	207.1693
Santa Clara	2015	MCY	Aggregate	35	GAS	15244	2.384313	36346.17	2.850002	20.64618	1.14382	17436.26	156.9808	2392996	0.00157	23.93203	0.001483	22.60079
Santa Clara	2015	MDV	Aggregate	35	GAS	317477	0.059725	18961.24	0.08282	2.321225	0.305993	97145.57	522.0872	1.66E+08	0.001823	578.7313	0.00168	533.2568
Santa Clara	2015	MDV	Aggregate	35	DSL	3865	0.015237	58.89873	0.017346	0.193691	0.072825	281.5023	477.3632	1845241	0.008167	31.56887	0.007814	30.20321
Santa Clara	2015	MH	Aggregate	35	GAS	3262	0.330033	1076.509	0.42146	9.312097	1.093881	3568.048	1209.034	3943656	0.003479	11.34858	0.003238	10.5607
Santa Clara	2015	MH	Aggregate	35	DSL	697	0.099494	69.31407	0.113267	0.521585	6.024199	4196.868	1031.043	718295	0.131218	91.4151	0.125541	87.46053
Santa Clara	2015	MHDT	Aggregate	35	GAS	6210	0.243136	1509.949	0.341634	7.238453	1.517321	9423.017	1203.509	7474152	0.00175	10.8692	0.001618	10.04634
Santa Clara	2015	MHDT	Aggregate	35	DSL	41754	0.267674	11176.5	0.304727	0.881777	5.205393	217346.6	1201.776	50179085	0.136287	5690.542	0.130391	5444.372
Santa Clara	2015	OBUS	Aggregate	35	GAS	3751	0.072518	272.0388	0.103844	2.244691	0.574398	2154.745	1203.697	4515440	0.000587	2.200723	0.000541	2.028248
Santa Clara	2015	OBUS	Aggregate	35	DSL	3758	0.187	702.7758	0.212885	0.622253	5.903532	22186.42	1382.247	5194706	0.059439	223.3817	0.056868	213.7183
Santa Clara	2015	SBUS	Aggregate	35	GAS	1537	0.21084	324.0065	0.307657	7.159879	1.342524	2063.117	570.6689	876972.1	0.001789	2.749215	0.001645	2.527802
Santa Clara	2015	SBUS	Aggregate	35	DSL	3178	0.130047	413.2956	0.148049	0.433986	8.61606	27382.15	1195.065	3797960	0.072139	229.2596	0.069018	219.3419
Santa Clara	2015	UBUS	Aggregate	35	GAS	171	0.833569	142.9011	1.178653	9.979939	1.961239	336.2206	1199.422	205620.2	0.002033	0.348488	0.001888	0.323696
Santa Clara	2015	UBUS	Aggregate	35	DSL	820	0.433341	355.1401	0.548824	3.867014	19.82573	16248.34	1908.514	1564138	0.273874	224.4558	0.262026	214.7459
Santa Clara	2015	HHDT	Aggregate	40	GAS	1007	0.88557	891.9022	1.215734	39.22329	4.636674	4669.829	1775.941	1788640	0.001278	1.286901	0.001196	1.204379
Santa Clara	2015	HHDT	Aggregate	40	DSL	89102	0.218629	19480.32	0.269868	0.918145	6.844123	609825.7	1746.271	1.56E+08	0.074822	6666.778	0.071585	6378.376
Santa Clara	2015	LDA	Aggregate	40	GAS	1639087	0.023241	38093.35	0.031864	1.096713	0.101839	166923.5	277.787	4.55E+08	0.001428	2341.413	0.001316	2156.368
Santa Clara	2015	LDA	Aggregate	40	DSL	13175	0.030014	395.4293	0.034169	0.260058	0.248133	3269.142	268.8981	3542720	0.019896	262.1278	0.019035	250.7882
Santa Clara	2015	LDT1	Aggregate	40	GAS	126343	0.077918	9844.363	0.101389	2.661921	0.262781	33200.62	321.9318	40673915	0.003135	396.103	0.002896	365.8594
Santa Clara	2015	LDT1	Aggregate	40	DSL	115	0.194737	22.46293	0.221695	1.051701	1.29357	149.2136	346.3202	39948.12	0.154197	17.78669	0.147527	17.01725
Santa Clara	2015	LDT2	Aggregate	40	GAS	550395	0.030699	16896.56	0.042182	1.455059	0.177658	97781.89	375.7246	2.07E+08	0.001395	767.565	0.001285	707.2658
Santa Clara	2015	LDT2	Aggregate	40	DSL	791	0.016981	13.4267	0.019332	0.115745	0.082194	64.98823	335.665	265399.7	0.008437	6.670954	0.008072	6.382371
Santa Clara	2015	LHDT1	Aggregate	40	GAS	7198	0.065069	468.3949	0.093128	1.793865	0.492586	3545.86	691.8214	4980051	0.001405	10.11047	0.001293	9.307671
Santa Clara	2015	LHDT1	Aggregate	40	DSL	11306	0.11689	1321.599	0.133071	0.608787	4.60103	52020.98	476.9265	5392310	0.026785	302.8468	0.025627	289.7458
Santa Clara	2015	LHDT2	Aggregate	40	GAS	1100	0.047523	52.25751	0.068509	1.38025	0.423725	465.9415	765.1987	841437.4	0.00118	1.297874	0.001086	1.194153
Santa Clara	2015	LHDT2	Aggregate	40	DSL	4649	0.093788	436.0654	0.106771	0.474061	3.435194	15971.87	535.668	2490578	0.022212	103.2745	0.021251	98.80694
Santa Clara	2015	MCY	Aggregate	40	GAS	15689	2.135456	33502.98	2.550715	19.73777	1.145616	17973.47	145.5549	2283598	0.001416	22.21355	0.001337	20.98101
Santa Clara	2015	MDV	Aggregate	40	GAS	326745	0.052499	17153.82	0.072647	2.157992	0.295198	96454.5	483.9068	1.58E+08	0.001591	519.8972	0.001466	479.0939
Santa Clara	2015	MDV	Aggregate	40	DSL	3978	0.013102	52.12327	0.014915	0.164582	0.071756	285.4678	446.5076	1776358	0.007477	29.74499	0.007153	28.45823
Santa Clara	2015	MH	Aggregate	40	GAS	4306	0.29946	1289.587	0.381712	8.958985	1.092916	4706.511	1124.828	4843934	0.003111	13.39756	0.002896	12.47075
Santa Clara	2015	MH	Aggregate	40	DSL	890	0.084462	75.14541	0.096154	0.454339	5.807936	5167.315	984.0343	875494.3	0.12684	112.8495	0.121353	107.9677
Santa Clara	2015	MHDT	Aggregate	40	GAS	8199	0.214302	1757.075	0.300623	6.77118	1.467646	12033.32	1119.688	9180390	0.001539	12.62206	0.001423	11.66889
Santa Clara	2015	MHDT	Aggregate	40	DSL	53323	0.221955	11835.36	0.252679	0.768375	4.966809	264846.3	1147.678	61197912	0.132819	7082.311	0.127073	6775.933
Santa Clara	2015	OBUS	Aggregate	40	GAS	4953	0.063268	313.3414	0.090505	2.085109	0.552479	2736.214	1119.863	5546248	0.000512	2.533572	0.000472	2.335276
Santa Clara	2015	OBUS	Aggregate	40	DSL	5054	0.15138	765.0989	0.172334	0.52236	5.777993	29202.93	1340.871	6776985	0.056681	286.4764	0.054229	274.0836
Santa Clara	2015	SBUS	Aggregate	40	GAS	1037	0.182615	189.4417	0.266471	6.618049	1.287674	1335.812	530.9232	550771	0.001552	1.60969	0.001427	1.48005
Santa Clara	2015	SBUS	Aggregate	40	DSL	2145	0.108874	233.572	0.123945	0.362302	8.432588	18090.79	1141.138	2448133	0.065353	140.2041	0.062526	134.1389
Santa Clara	2015	UBUS	Aggregate	40	GAS	238	0.75522	179.9884	1.067409	9.511161	1.963523	467.9579	1115.885	265944.1	0.001828	0.435688	0.001698	0.404759
Santa Clara	2015	UBUS	Aggregate	40	DSL	1139	0.363827	414.5255	0.459794	3.246947	19.57569	22303.55	1821.499	2075323	0.237679	270.7991	0.227397	259.0844
Santa Clara	2015	HHDT	Aggregate	45	GAS	1204	0.819961	987.1769	1.122324	37.13811	4.568703	5500.406	1736.882	2091088	0.001196	1.439302	0.001119	1.347537
Santa Clara	2015	HHDT	Aggregate	45	DSL	129327	0.179909	23267.09	0.214096	0.754668	6.512388	842227.2	1643.439	2.13E+08	0.074933	9690.875	0.071692	9271.652
Santa Clara	2015	LDA	Aggregate	45	GAS	3124038	0.021509	67195.21	0.029431	1.027915	0.099576	311078.5	267.5979	8.36E+08	0.00131	4092.294	0.001206	3769.14
Santa Clara	2015	LDA	Aggregate	45	DSL	25111	0.027986	702.766	0.031861	0.245789	0.255681	6420.396	259.7349	6522195	0.018952	475.8938	0.018132	455.3068
Santa Clara	2015	LDT1	Aggregate	45	GAS	240806	0.072704	17507.44	0.094346	2.533045	0.260612	62756.84	310.0991	74673574	0.002885	694.7112	0.002665	641.7825
Santa Clara	2015	LDT1	Aggregate	45	DSL	220	0.186085	40.91135	0.211845	1.07062	1.347508	296.2539	333.9114	73411.51	0.147484	32.42491	0.141104	31.02223
Santa Clara	2015	LDT2	Aggregate	45	GAS	1049032	0.028386	29777.55	0.038926	1.364156	0.173769	182289.3	361.9294	3.8E+08	0.001279	1341.884	0.001179	1236.58
Santa Clara	2015	LDT2	Aggregate	45	DSL	1507	0.015146	22.82546	0.017243	0.10405	0.082276	123.9886	323.638	487717.4	0.007979	12.02393	0.007634	11.50378
Santa Clara	2015	LHDT1	Aggregate	45	GAS	7988	0.061269	489.41	0.087682	1.749171	0.482982	3858.036	688.6443	5500853	0.001298	10.37121	0.001195	9.548115
Santa Clara	2015	LHDT1	Aggregate	45	DSL	11238	0.110648	1243.469	0.125965	0.615097	4.782873	53750.25	465.2043	5227997	0.02554	287.0185	0.024435	274.6022
Santa Clara	2015	LHDT2	Aggregate	45	GAS	1220	0.044482	54.2791	0.064118	1.330671	0.413364	504.4003	747.1648	911715.4	0.001088	1.327121	0.001001	1.221093
Santa Clara	2015	LHDT2	Aggregate	45	DSL	4621	0.088049	406.9098	0.100238	0.475174	3.567161	16485.25	514.9085	2379594	0.021132	97.65835	0.020218	93.4337
Santa Clara	2015	MCY	Aggregate	45	GAS	29902	2.004976	59953.77	2.393553	19.56156	1.154793	34531.17	140.0756	4188608	0.00134	40.05624	0.001265	37.83833
Santa Clara	2015	MDV	Aggregate	45	GAS	622764	0.048498	30202.61	0.06699	2.031449	0.289582	180341.4	466.1343	2.9E+08	0.001461	909.5797	0.001346	838.2714
Santa Clara	2015	MDV	Aggregate	45	DSL	7583	0.011698	88.70135	0.013317	0.145059	0.071461	541.8605	429.6991	3258221	0.007059	53.52355	0.006753	51.20815
Santa Clara	2015	MH	Aggregate	45	GAS	3761	0.283805	1067.454	0.361618	8.96021	1.09367	4113.543	1045.135	3930990	0.002923	10.99247	0.002721	10.23432
Santa Clara	2015	MH	Aggregate	45	DSL	694	0.074993	52.07035	0.085375	0.405363	5.657036	3927.886	949.1473	659027.5	0.129438	89.87358	0.123839	85.98569
Santa Clara	2015	MHDT	Aggregate	45	GAS	7161	0.199043	1425.373	0.278959	6.438614	1.430674	10245.25	1040.359	7450147	0.001426	10.21196	0.001319	9.442468
Santa Clara	2015	MHDT	Aggregate	45	DSL	41614	0.19202	7990.778	0.2186	0.689099	4.792561	199439.4	1104.224	45951593	0.137132	5706.674	0.1312	5459.806
Santa Clara	2015	OBUS	Aggregate	45	GAS	4326	0.058292	252.19	0.083334	1.955944	0.536009	2318.591	1040.521	4500938	0.00047	2.034373	0.000434	1.875334
Santa Clara	2015	OBUS	Aggregate	45	DSL	3733	0.119736	447.0209	0.136311	0.419753	5.446732	20334.73	1266.596	4728685	0.05531	206.4919	0.052917	197.5591
Santa Clara	2015	SBUS	Aggregate	45	GAS	498	0.166978	83.10681	0.243654	6.137899	1.253247	623.7557	493.3077	245525	0.00142	0.70666	0.001305	0.649748
Santa Clara	2015	SBUS	Aggregate	45	DSL	1029	0.095392	98.18501	0.108596	0.30773	8.332815	8576.831	1099.713	1131917	0.062134	63.95396	0.059447	61.18734
Santa Clara	2015	UBUS	Aggregate	45	GAS	200	0.719181	144.0817	1.016508	9.38663	1.969606	394.5936	1036.826	207719	0.001726	0.345696	0.001603	0.3212
Santa Clara	2015	UBUS	Aggregate	45	DSL	958	0.326578	312.7833	0.411776	2.766017	19.46896	18646.58	1756.921	1682708	0.219873	210.5854	0.210361	201.4756
Santa Clara	2015	HHDT	Aggregate	50	GAS	1009	0.799137	806.0788	1.091852	35.70804	4.535753	4575.153	1715.313	1730213	0.001176	1.185868	0.001101	1.110616
Santa Clara	2015	HHDT	Aggregate	50	DSL	121058	0.155525	18827.47	0.179862	0.643933	6.263355	758226.6	1560.815	1.89E+08	0.078794	9538.605	0.075385	9125.969
Santa Clara	2015	LDA	Aggregate	50	GAS	1081260	0.020904	22602.92	0.028547	0.969933	0.099103	107155.7	267.1696	2.89E+08	0.001265	1367.533	0.001165	1259.623
Santa Clara	2015	LDA	Aggregate	50	DSL	8691	0.027252	236.8474	0.031024	0.244055	0.263741	2292.212	260.3961	2263142	0.018803	163.4201	0.01799	156.3506
Santa Clara	2015	LDT1	Aggregate	50	GAS	83345	0.071051	5921.718	0.091926	2.457167	0.263674	21975.98	309.6132	25804760	0.002783	231.9799	0.002572	214.3435
Santa Clara	2015	LDT1	Aggregate	50	DSL	76	0.186066	14.15836	0.211823	1.147882	1.401916	106.6765	334.4661	25450.65	0.147598	11.23122	0.141213	10.74537
Santa Clara	2015	LDT2	Aggregate	50	GAS	363080	0.027542	9999.818	0.037693	1.288411	0.173306	62923.8	361.356	1.31E+08	0.001235	448.3054	0.001138	413.1591
Santa Clara	2015	LDT2	Aggregate	50	DSL	522	0.014005	7.304723	0.015944	0.0974	0.082892	43.23506	324.1757	169084.2	0.007795	4.065663	0.007458	3.889785
Santa Clara	2015	LHDT1	Aggregate	50	GAS	70137	0.061577	4318.809	0.088252	1.780493	0.463094	32480.12	726.2265	50935481	0.001264	88.66365	0.001164	81.62995
Santa Clara	2015	LHDT1	Aggregate	50	DSL	49140	0.10953	5382.341	0.124692	0.654715	4.956586	243568.9	487.7045	23966019	0.025393	1247.84	0.024295	1193.859
Santa Clara	2015	LHDT2	Aggregate	50	GAS	10714	0.044481	476.5768	0.064172	1.333083	0.395045	4232.554	778.9448	8345701	0.001056	11.31542	0.000972	10.41162
Santa Clara	2015	LHDT2	Aggregate	50	DSL	20208	0.086382	1745.591	0.09834	0.501844	3.693654	74640.82	533.8735	10788437	0.020912	422.5768	0.020007	404.2963
Santa Clara	2015	MCY	Aggregate	50	GAS	10350	1.979763	20489.64	2.362324	20.244	1.174211	12152.55	139.9116	1448021	0.001329	13.75713	0.001256	12.99668
Santa Clara	2015	MDV	Aggregate	50	GAS	215545	0.047004	10131.47	0.064808	1.932141	0.289866	62479.1	465.398	1E+08	0.00141	303.904	0.0013	280.1029
Santa Clara	2015	MDV	Aggregate	50	DSL	2624	0.01083	28.42248	0.012329	0.132421	0.071689	188.14	431.8523	1133353	0.006871	18.03237	0.006574	17.2523
Santa Clara	2015	MH	Aggregate	50	GAS	3663	0.283948	1040.144	0.360838	9.463928	1.120203	4103.477	977.6747	3581373	0.002884	10.56276	0.002685	9.836026
Santa Clara	2015	MH	Aggregate	50	DSL	819	0.070912	58.10777	0.080728	0.374158	5.593742	4583.739	926.382	759114.9	0.138993	113.8964	0.13298	108.9693
Santa Clara	2015	MHDT	Aggregate	50	GAS	6974	0.194225	1354.607	0.271713	6.231568	1.434013	10001.39	973.2073	6787541	0.001391	9.700343	0.001286	8.970724
Santa Clara	2015	MHDT	Aggregate	50	DSL	49112	0.177026	8694.179	0.201531	0.641468	4.697331	230696.9	1070.098	52555043	0.149244	7329.722	0.142788	7012.641
Santa Clara	2015	OBUS	Aggregate	50	GAS	4213	0.056401	237.611	0.080543	1.846277	0.535151	2254.519	973.3591	4100630	0.000456	1.920253	0.00042	1.770285
Santa Clara	2015	OBUS	Aggregate	50	DSL	4768	0.107626	513.117	0.122523	0.37989	5.505756	26249.33	1255.328	5984922	0.059335	282.8848	0.056768	270.6474
Santa Clara	2015	SBUS	Aggregate	50	GAS	249	0.161592	40.27996	0.235795	5.725784	1.23153	306.9825	461.4663	115029.3	0.001371	0.341638	0.00126	0.314124
Santa Clara	2015	SBUS	Aggregate	50	DSL	515	0.089183	45.97351	0.101528	0.269146	8.307176	4282.321	1070.096	551630.8	0.062496	32.21626	0.059792	30.8226
Santa Clara	2015	UBUS	Aggregate	50	GAS	177	0.711628	126.2217	1.004719	9.647752	2.027461	359.6112	969.902	172031.7	0.001709	0.303132	0.001588	0.281683

Santa Clara	2015	UBUS	Aggregate	50	DSL	848	0.321564	272.6681	0.404431	2.420444	19.58193	16604.36	1714.781	1454037	0.220449	186.9279	0.210912	178.8415
Santa Clara	2015	HHDT	Aggregate	55	GAS	1562	0.819422	1280.182	1.118991	34.95817	4.533416	7082.553	1683.015	2629374	0.001215	1.898053	0.001138	1.778051
Santa Clara	2015	HHDT	Aggregate	55	DSL	148752	0.143448	21338.16	0.163304	0.576666	6.092856	906325.2	1505.7	2.24E+08	0.086503	12867.54	0.082761	12310.9
Santa Clara	2015	LDA	Aggregate	55	GAS	2083093	0.021375	44526.4	0.029147	0.927745	0.100088	208493.1	277.3357	5.78E+08	0.001286	2678.504	0.001184	2467.278
Santa Clara	2015	LDA	Aggregate	55	DSL	16744	0.027731	464.3186	0.03157	0.255305	0.27217	4557.171	272.484	4562435	0.019444	325.5636	0.018603	311.4799
Santa Clara	2015	LDT1	Aggregate	55	GAS	160568	0.072693	11672.13	0.0938	2.445538	0.271236	43551.73	321.3611	51600284	0.002816	452.2065	0.002603	417.8991
Santa Clara	2015	LDT1	Aggregate	55	DSL	147	0.194683	28.53996	0.221634	1.296302	1.456708	213.549	349.7116	51266.67	0.154557	22.65759	0.147871	21.67743
Santa Clara	2015	LDT2	Aggregate	55	GAS	699489	0.028091	19649.33	0.038384	1.233913	0.175713	122909.3	375.0874	2.62E+08	0.001254	877.4184	0.001156	808.6886
Santa Clara	2015	LDT2	Aggregate	55	DSL	1005	0.013434	13.49925	0.015294	0.095228	0.083885	84.2922	338.9521	340595.8	0.007876	7.914244	0.007535	7.571878
Santa Clara	2015	LHDT1	Aggregate	55	GAS	18053	0.062418	1126.818	0.089254	1.827157	0.493522	8909.474	765.1604	13813319	0.001296	23.40016	0.001193	21.54443
Santa Clara	2015	LHDT1	Aggregate	55	DSL	28437	0.113419	3225.334	0.12912	0.734394	5.174538	147150.1	509.6339	14492637	0.02634	749.0479	0.025201	716.6445
Santa Clara	2015	LHDT2	Aggregate	55	GAS	2758	0.044927	123.8957	0.064718	1.332176	0.41947	1156.788	814.4097	2245930	0.001081	2.980081	0.000994	2.742099
Santa Clara	2015	LHDT2	Aggregate	55	DSL	11694	0.088609	1036.209	0.100875	0.558785	3.853513	45063.71	552.5848	6462032	0.021541	251.9055	0.020609	241.0082
Santa Clara	2015	MCY	Aggregate	55	GAS	19939	2.048527	40845.23	2.443593	21.86358	1.20004	23927.38	145.0445	2892017	0.001383	27.57936	0.001307	26.05681
Santa Clara	2015	MDV	Aggregate	55	GAS	415256	0.047893	19888.03	0.065938	1.869618	0.295187	122578	483.0757	2.01E+08	0.001432	594.4716	0.00132	547.9555
Santa Clara	2015	MDV	Aggregate	55	DSL	5056	0.010404	52.60502	0.011845	0.125446	0.072284	365.4684	455.755	2304304	0.006904	34.90689	0.006605	33.39684
Santa Clara	2015	MH	Aggregate	55	GAS	4123	0.297638	1227.018	0.37734	10.48732	1.156819	4769.013	950.7272	3919396	0.002987	12.31555	0.002782	11.46982
Santa Clara	2015	MH	Aggregate	55	DSL	1140	0.072115	82.2076	0.082098	0.360436	5.601378	6385.309	915.7383	1043899	0.155493	177.2543	0.148766	169.5864
Santa Clara	2015	MHDT	Aggregate	55	GAS	7849	0.19947	1565.64	0.278605	6.177784	1.458718	11449.5	946.3829	7428173	0.001428	11.20888	0.001321	10.367
Santa Clara	2015	MHDT	Aggregate	55	DSL	68322	0.176301	12045.23	0.200705	0.623716	4.664411	318681.8	1045.895	71457612	0.169186	11559.15	0.161867	11059.1
Santa Clara	2015	OBUS	Aggregate	55	GAS	4741	0.057524	272.7293	0.082067	1.76493	0.542861	2573.799	946.5306	4487662	0.000466	2.207777	0.000429	2.03549
Santa Clara	2015	OBUS	Aggregate	55	DSL	7150	0.103417	739.4637	0.117733	0.357471	5.588693	39960.72	1247.243	8918141	0.066588	476.1237	0.063708	455.5268
Santa Clara	2015	SBUS	Aggregate	55	GAS	371	0.16261	60.33184	0.23728	5.281806	1.264853	469.2874	448.747	166494.6	0.001396	0.517842	0.001283	0.476136
Santa Clara	2015	SBUS	Aggregate	55	DSL	767	0.089913	68.98842	0.102359	0.245755	8.395788	6441.952	1051.83	807052.2	0.066457	50.99133	0.063582	48.78547
Santa Clara	2015	UBUS	Aggregate	55	GAS	261	0.736923	192.0259	1.039218	10.35379	2.105308	548.5958	943.1687	245768.5	0.001776	0.462743	0.00165	0.430037
Santa Clara	2015	UBUS	Aggregate	55	DSL	1246	0.348767	434.4685	0.437561	2.208034	19.86888	24751.2	1695.079	2111605	0.239401	298.2279	0.229044	285.3267
Santa Clara	2015	HHDT	Aggregate	60	GAS	335	0.886296	296.6132	1.207208	35.31026	4.690256	1569.669	1659.462	555365.3	0.001319	0.441448	0.001236	0.413611
Santa Clara	2015	HHDT	Aggregate	60	DSL	43225	0.142332	6152.296	0.162034	0.55463	6.061126	261991.8	1488.338	64333323	0.091346	3948.44	0.087395	3777.632
Santa Clara	2015	LDA	Aggregate	60	GAS	4933357	0.022964	113290.7	0.031248	0.896628	0.103831	512235.4	297.8013	1.47E+09	0.001377	6791.879	0.001268	6256.544
Santa Clara	2015	LDA	Aggregate	60	DSL	39654	0.029745	1179.501	0.033862	0.286184	0.281667	11169.3	295.4054	11714077	0.021036	834.1604	0.020126	798.075
Santa Clara	2015	LDT1	Aggregate	60	GAS	380271	0.078259	29759.49	0.100607	2.508985	0.287424	109298.8	345.1306	1.31E+08	0.00299	1136.989	0.002764	1050.902
Santa Clara	2015	LDT1	Aggregate	60	DSL	347	0.213225	74.02829	0.242743	1.54252	1.51353	525.4725	378.8093	131516.3	0.169361	58.79928	0.162034	56.25565
Santa Clara	2015	LDT2	Aggregate	60	GAS	1656589	0.030089	49845.8	0.041021	1.195104	0.183411	303837.3	402.7974	6.67E+08	0.001341	2222.254	0.001236	2048.303
Santa Clara	2015	LDT2	Aggregate	60	DSL	2380	0.013737	32.69051	0.015638	0.100507	0.08582	204.2319	367.1545	873743.1	0.008316	19.78923	0.007956	18.93315
Santa Clara	2015	MCY	Aggregate	60	GAS	47221	2.24387	105957.3	2.675464	25.1286	1.245246	58801.52	156.0645	7369491	0.001509	71.26481	0.001426	67.33411
Santa Clara	2015	MDV	Aggregate	60	GAS	983444	0.051226	50377.77	0.070377	1.840387	0.309743	304615.2	518.7755	5.1E+08	0.001529	1503.923	0.00141	1386.334
Santa Clara	2015	MDV	Aggregate	60	DSL	11974	0.010653	127.5563	0.012127	0.128372	0.07379	883.563	493.491	5909103	0.007245	86.75687	0.006932	83.00381
Santa Clara	2015	MH	Aggregate	60	GAS	4354	0.325962	1419.344	0.412729	12.18266	1.1949	5202.973	956.6339	4165487	0.003249	14.14878	0.003027	13.17846
Santa Clara	2015	MH	Aggregate	60	DSL	1425	0.078816	112.2966	0.089727	0.364798	5.676996	8088.522	917.2164	1306840	0.179009	255.0494	0.171265	244.0161
Santa Clara	2015	MHDT	Aggregate	60	GAS	8290	0.215652	1787.831	0.300919	6.314851	1.495221	12395.88	952.2627	7894574	0.001543	12.79499	0.001428	11.83497
Santa Clara	2015	MHDT	Aggregate	60	DSL	85393	0.181327	15484.14	0.206427	0.625214	4.665234	398379.8	1036.652	88523165	0.182015	15542.82	0.174141	14870.45
Santa Clara	2015	OBUS	Aggregate	60	GAS	5008	0.061901	309.9829	0.088259	1.716987	0.555647	2782.539	952.4112	4769434	0.000501	2.511063	0.000462	2.315222
Santa Clara	2015	OBUS	Aggregate	60	DSL	8343	0.100473	838.2547	0.114381	0.333214	5.423748	45250.59	1209.219	10088573	0.069455	579.4655	0.06645	554.3981
Santa Clara	2015	SBUS	Aggregate	60	GAS	206	0.175177	36.17241	0.255618	4.954925	1.282968	264.921	451.535	93237.78	0.001499	0.309623	0.001379	0.284687
Santa Clara	2015	SBUS	Aggregate	60	DSL	427	0.092903	39.67237	0.105763	0.239354	8.444205	3605.924	1046.515	446892.7	0.069743	29.78246	0.066726	28.49408
Santa Clara	2015	UBUS	Aggregate	60	GAS	356	0.801764	285.0976	1.129838	11.65634	2.184963	776.9463	949.0285	337462.9	0.001936	0.688282	0.001799	0.639674
Santa Clara	2015	UBUS	Aggregate	60	DSL	1700	0.408224	693.9554	0.511578	2.133359	20.29485	34499.97	1697.815	2886179	0.27676	470.4744	0.264787	450.1219
Santa Clara	2015	HHDT	Aggregate	65	GAS	184	1.008061	185.2107	1.371991	36.85161	4.865589	893.9526	1654.936	304060.7	0.001505	0.276426	0.00141	0.259022
Santa Clara	2015	HHDT	Aggregate	65	DSL	23921	0.142332	3404.738	0.162034	0.55463	6.061414	144995.6	1488.338	35602659	0.091346	2185.103	0.087395	2090.577
Santa Clara	2015	LDA	Aggregate	65	GAS	2066139	0.025937	53589.36	0.035263	0.886127	0.108268	223696.3	332.8579	6.88E+08	0.001553	3208.149	0.00143	2955.376
Santa Clara	2015	LDA	Aggregate	65	DSL	16608	0.033533	556.9097	0.038176	0.341793	0.291314	4838.017	332.0954	5515306	0.023809	395.4113	0.022779	378.306
Santa Clara	2015	LDT1	Aggregate	65	GAS	159261	0.087856	13992.06	0.112674	2.669506	0.307008	48894.4	385.7326	61432205	0.003333	530.7667	0.003081	490.6536
Santa Clara	2015	LDT1	Aggregate	65	DSL	145	0.244425	35.54033	0.278261	1.933641	1.568351	228.0443	425.488	61867.62	0.194203	28.23784	0.185802	27.01628
Santa Clara	2015	LDT2	Aggregate	65	GAS	693796	0.033861	23492.83	0.046113	1.183827	0.192866	133809.5	450.1993	3.12E+08	0.001511	1048.058	0.001392	966.0631
Santa Clara	2015	LDT2	Aggregate	65	DSL	997	0.014869	14.81977	0.016928	0.113662	0.088264	87.97022	412.3971	411024.4	0.009172	9.141022	0.008775	8.745586
Santa Clara	2015	MCY	Aggregate	65	GAS	19777	2.556381	50556.39	3.047806	30.03653	1.287111	25454.62	174.2861	3446778	0.001726	34.14227	0.001631	32.26011
Santa Clara	2015	MDV	Aggregate	65	GAS	411876	0.057592	23720.73	0.079043	1.862578	0.327747	134991.3	579.8202	2.39E+08	0.001719	708.1056	0.001585	652.774
Santa Clara	2015	MDV	Aggregate	65	DSL	5015	0.011544	57.89237	0.013142	0.140801	0.07581	380.1751	554.1212	2778844	0.007938	39.81032	0.007595	38.08814
Santa Clara	2015	MH	Aggregate	65	GAS	568	0.369239	209.5985	0.469203	14.66676	1.211124	687.4944	974.3677	553099.9	0.00371	2.106101	0.003456	1.961781
Santa Clara	2015	MH	Aggregate	65	DSL	201	0.090897	18.22783	0.10348	0.386909	5.806067	1164.319	930.8161	186659.8	0.209519	42.01565	0.200456	40.19807
Santa Clara	2015	MHDT	Aggregate	65	GAS	1081	0.246173	266.0559	0.343995	6.696304	1.518894	1641.579	969.9154	1048254	0.001755	1.897286	0.001624	1.755019
Santa Clara	2015	MHDT	Aggregate	65	DSL	12019	0.181327	2179.333	0.206427	0.625214	4.652031	55911.73	1036.652	12459290	0.182015	2187.592	0.174141	2092.957
Santa Clara	2015	OBUS	Aggregate	65	GAS	653	0.070688	46.14767	0.100862	1.713595	0.564585	368.5807	970.0667	633292.9	0.000569	0.371536	0.000525	0.342569
Santa Clara	2015	OBUS	Aggregate	65	DSL	1060	0.096021	101.7399	0.109313	0.312417	5.181913	5490.522	1171.095	1240840	0.067378	71.39094	0.064463	68.3026
Santa Clara	2015	SBUS	Aggregate	65	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	UBUS	Aggregate	65	GAS	51	0.92687	47.71813	1.307706	13.78983	2.225569	114.5791	966.6213	49764.64	0.002213	0.113926	0.002057	0.105884
Santa Clara	2015	UBUS	Aggregate	65	DSL	246	0.499915	123.04	0.626252	2.193865	20.82368	5125.167	1722.989	424065.6	0.332517	81.83979	0.318133	78.29944
Santa Clara	2015	HHDT	Aggregate	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	MHDT	Aggregate	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	OBUS	Aggregate	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	SBUS	Aggregate	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	HHDT	Aggregate	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	MHDT	Aggregate	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	OBUS	Aggregate	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	SBUS	Aggregate	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	HHDT	Aggregate	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	MHDT	Aggregate	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	OBUS	Aggregate	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	SBUS	Aggregate	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	HHDT	Aggregate	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	MHDT	Aggregate	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	OBUS	Aggregate	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	SBUS	Aggregate	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	HHDT	Aggregate	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	MHDT	Aggregate	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	OBUS	Aggregate	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2015	SBUS	Aggregate	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2015
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

							44092126	8144196																												
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX	ROG_IDLEX	ROG_STREX		ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	NOx_RUNEX	NOx_IDLEX	NOx_STREX		CO2_RUNEX	CO2_IDLEX	CO2_STREX		PM10_RUNEX	PM10_IDLEX	PM10_STREX		PM10_PMTW	PM10_PMBW		PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STREX		PM2_5_PMTW	PM2_5_PMBW	
Santa Clara	2015	HHDT	Aggregate	Aggregate	GAS	81.43021	8373.433	1629.256	1.096719	0	3.82907	6238.534	0.332163	1.23797	0.039461	0.080667	4.855554	0	5.309784	8650.995	1847.711	0	213.0681	347142.5	0.001557	0	0.009486	15.4552	0.02	0.06174	684.4446	0.001456	0	0.009001	14.66506	0.005	0.02646	263.4283
Santa Clara	2015	HHDT	Aggregate	Aggregate	DSL	6469.86	825805.3	0	0.287928	2.877492	0	0	0	0	0	0	7.338978	71.1917	0	0	1773.402	10882.67	0	0	0.092224	0.252554	0	0	0.035361	0.060644	79281.93	0.088234	0.241629	0	0	0.00884	0.02599	28763.43
Santa Clara	2015	LDA	Aggregate	Aggregate	GAS	736858.3	25274026	4623536	0.027047	0	0.23255	1075202	0.18885	0.378614	0.304706	0.408447	0.106554	0	0.210164	971698.9	312.2698	0	70.42951	3.26E+08	0.00167	0	0.002675	12366.24	0.008	0.03675	1131013	0.001538	0	0.002465	11398.83	0.002	0.01575	448614.1
Santa Clara	2015	LDA	Aggregate	Aggregate	DSL	5240.15	203152.2	32172.86	0.034662	0	0	0	0	0	0	0	0.25701	0	0	0	301.5348	0	0	0	0.022611	0	0	0	0.008	0.03675	9091.064	0.021633	0	0	0	0.002	0.01575	3605.953
Santa Clara	2015	LDA	Aggregate	Aggregate	ELEC	2847.269	143257.6	18478.08	0	0	0	0	0.004884	0	0.00456	0.017501	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.03675	6410.778	0	0	0	0	0.002	0.01575	2542.822
Santa Clara	2015	LDT1	Aggregate	Aggregate	GAS	62716.95	1948160	381093.6	0.089443	0	0.46169	175947.3	0.38907	1.442944	0.632716	0.922856	0.280435	0	0.335665	127919.9	361.8699	0	81.64693	31115121	0.003605	0	0.004952	1887.13	0.008	0.03675	87180.17	0.00333	0	0.004575	1743.659	0.002	0.01575	34579.85
Santa Clara	2015	LDT1	Aggregate	Aggregate	DSL	83.55996	1778.652	408.7727	0.22535	0	0	0	0	0	0	0	1.339096	0	0	0	388.3343	0	0	0	0.17837	0	0	0	0.008	0.03675	79.59469	0.170654	0	0	0	0.002	0.01575	31.57108
Santa Clara	2015	LDT1	Aggregate	Aggregate	ELEC	60.49675	1746.148	355.4052	0	0	0	0	0.004884	0	0.00456	0.017501	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.03675	78.14015	0	0	0	0	0.002	0.01575	30.99414
Santa Clara	2015	LDT2	Aggregate	Aggregate	GAS	246227.5	8486852	1549214	0.035594	0	0.258401	400318.4	0.17666	0.599833	0.310325	0.388493	0.18714	0	0.346177	536302.5	422.3509	0	95.29516	1.48E+08	0.001627	0	0.002401	3720.184	0.008	0.03675	379786.7	0.001499	0	0.002213	3428.365	0.002	0.01575	150641.7
Santa Clara	2015	LDT2	Aggregate	Aggregate	DSL	281.9235	12191.77	1809.629	0.019541	0	0	0	0	0	0	0	0.08526	0	0	0	376.3865	0	0	0	0.009289	0	0	0	0.008	0.03675	545.5819	0.008888	0	0	0	0.002	0.01575	216.404
Santa Clara	2015	LHDT1	Aggregate	Aggregate	GAS	16836.76	529521	250842.7	0.137399	0.380513	0.614775	154211.9	0.166805	1.183475	0.030255	0.068343	0.546962	0.031985	1.891241	474404	854.8381	116.3479	56.32731	14129294	0.003178	0	0.002272	569.8679	0.008	0.07644	44712.77	0.002925	0	0.002095	525.4621	0.002	0.03276	18406.16
Santa Clara	2015	LHDT1	Aggregate	Aggregate	DSL	9020.042	326340.3	113460.8	0.215517	0.10976	0	0	0	0	0	0	4.259537	2.596094	0	0	594.4125	141.5658	0	0	0.043039	0.030396	0	0	0.012	0.07644	28861.54	0.041177	0.029081	0	0	0.003	0.03276	11669.93
Santa Clara	2015	LHDT2	Aggregate	Aggregate	GAS	2305.455	80889.29	34347.85	0.104094	0.39043	0.5399	18544.4	0.148939	1.134537	0.025829	0.060081	0.481341	0.03297	1.807448	62081.95	959.058	135.3082	66.15593	2272314	0.002718	0	0.001912	65.66019	0.008	0.08918	7860.823	0.002501	0	0.001761	60.47461	0.002	0.03822	3253.368
Santa Clara	2015	LHDT2	Aggregate	Aggregate	DSL	3380.288	134199.7	42519.77	0.18794	0.10976	0	0	0	0	0	0	3.204804	2.596094	0	0	665.9562	225.4873	0	0	0.035199	0.029307	0	0	0.012	0.08918	13578.33	0.033676	0.028039	0	0	0.003	0.03822	5531.715
Santa Clara	2015	MCY	Aggregate	Aggregate	GAS	31882.04	241916.4	63757.7	2.485312	0	2.357202	150289.8	0.796055	2.910928	1.012836	1.831732	1.187571	0	0.318059	20278.71	163.4819	0	49.24872	3139985	0.001646	0	0.004841	308.62	0.004	0.01176	3812.604	0.001554	0	0.004599	293.2232	0.001	0.00504	1461.176
Santa Clara	2015	MDV	Aggregate	Aggregate	GAS	156033	5038272	975444.1	0.060843	0	0.45977	448480.1	0.197713	0.659961	0.363092	0.436052	0.31253	0	0.534072	520957.9	543.9528	0	121.7992	1.19E+08	0.001852	0	0.002925	2853.465	0.008	0.03675	225462.7	0.001706	0	0.002695	2629.058	0.002	0.01575	89429.35
Santa Clara	2015	MDV	Aggregate	Aggregate	DSL	1439.074	61344.3	9250.323	0.015078	0	0	0	0	0	0	0	0.074451	0	0	0	500.7036	0	0	0	0.008171	0	0	0	0.008	0.03675	2745.158	0.007817	0	0	0	0.002	0.01575	1088.862
Santa Clara	2015	MH	Aggregate	Aggregate	GAS	4229.855	33733.67	423.1547	0.406225	0	1.030746	436.1651	0.155981	3.060418	0.057938	0.182597	1.148941	0	1.487492	629.4393	1305.239	0	94.91003	40161.63	0.00436	0	0.00474	2.005896	0.012	0.13034	4801.652	0.004056	0	0.004454	1.884689	0.003	0.05586	1985.564
Santa Clara	2015	MH	Aggregate	Aggregate	DSL	892.1222	8032.983	89.21222	0.152493	0	0	0	0	0	0	0	6.539949	0	0	0	1064.051	0	0	0	0.171245	0	0	0	0.016	0.13034	1175.547	0.163837	0	0	0	0.004	0.05586	480.8545
Santa Clara	2015	MHDT	Aggregate	Aggregate	GAS	1441.375	64226.68	28839.03	0.310827	0.817211	1.584603	45698.42	0.18406	0.873925	0.034238	0.077576	1.586731	0.068899	3.034926	87524.34	1299.275	529.4342	128.4073	3703142	0.002246	0	0.004566	131.6725	0.012	0.13034	9142.028	0.002075	0	0.004267	123.0648	0.003	0.05586	3780.383
Santa Clara	2015	MHDT	Aggregate	Aggregate	DSL	9328.353	481448.9	0	0.381651	0.163448	0	0	0	0	0	0	5.594219	8.594315	0	0	1215.854	705.8622	0	0	0.178537	0.052933	0	0	0.012	0.13034	68529.45	0.170814	0.050643	0	0	0.003	0.05586	28338.09
Santa Clara	2015	OBUS	Aggregate	Aggregate	GAS	680.2197	38795.91	13609.84	0.09397	0.622388	0.576338	7843.872	0.022127	0.215921	0.012158	0.03114	0.600248	0.052562	1.425095	19395.3	1299.478	375.1539	78.96749	1074735	0.000762	0	0.001033	14.05636	0.012	0.13034	5522.211	0.000702	0	0.000963	13.10337	0.003	0.05586	2283.528
Santa Clara	2015	OBUS	Aggregate	Aggregate	DSL	575.0372	45387.81	0	0.239395	0.778438	0	0	0	0	0	0	6.329753	26.81945	0	0	1398.513	2498.108	0	0	0.074742	0.081163	0	0	0.012	0.13034	6460.503	0.071509	0.077652	0	0	0.003	0.05586	2671.527
Santa Clara	2015	SBUS	Aggregate	Aggregate	GAS	178.1722	8391.209	712.6889	0.317083	8.614223	2.008286	1431.283	0.146685	1.329196	0.021908	0.070197	1.470917	0.73189	2.58538	1842.572	676.6134	2515.946	127.5253	90885.88	0.002687	0	0.003072	2.18919	0.008	0.7448	6316.904	0.002471	0	0.002824	2.012879	0.002	0.3192	2695.257
Santa Clara	2015	SBUS	Aggregate	Aggregate	DSL	471.8655	17353.29	0	0.22082	0.495048	0	0	0	0	0	0	9.623725	52.76293	0	0	1317.137	3730.952	0	0	0.09646	0.148351	0	0	0.012	0.7448	13132.97	0.092287	0.141934	0	0	0.003	0.3192	5591.232
Santa Clara	2015	UBUS	Aggregate	Aggregate	GAS	95.21452	13308.15	380.8581	1.528188	0	2.844283	1083.268	0.330083	1.774404	0.026284	0.061366	2.147533	0	4.210359	1603.549	1723.165	0	316.926	120703.8	0.003904	0	0.00451	1.717503	0.012	0.13034	1894.282	0.003624	0	0.004183	1.59308	0.003	0.05586	783.3178
Santa Clara	2015	UBUS	Aggregate	Aggregate	DSL	455.1863	63621.46	1820.745	1.195961	0	0	0	0	0	0	0	23.70706	0	0	0	2443.178	0	0	0	0.572253	0	0	0	0.012	0.84182	54321.29	0.547498	0	0	0	0.003	0.36078	23144.22

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2030
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX		TOG_RUNI	CO_RUNEX	NOx_RUNEX		CO2_RUNEX		PM10_RUNEX		PM2_5_RUNEX	
Santa Clara	2030	HHDT	Aggregate	5	GAS	53.94354	2.035697	109.8127	2.970485	52.80707	5.392529	290.8931	3822.705	206210.2	0.007431	0.400863	0.006833	0.368579
Santa Clara	2030	HHDT	Aggregate	5	DSL	5539.954	0.525621	2911.918	2.429838	8.860724	17.90607	99198.81	3366.076	18647905	0.011745	65.06719	0.011237	62.25241
Santa Clara	2030	LDA	Aggregate	5	GAS	37737.43	0.03805	1435.914	0.055523	0.728379	0.053025	2001.023	683.9647	25811072	0.009159	345.6509	0.008422	317.8132
Santa Clara	2030	LDA	Aggregate	5	DSL	501.685	0.10948	54.92446	0.124636	2.844983	0.066499	33.36145	518.0839	259914.9	0.004558	2.286723	0.004361	2.1878
Santa Clara	2030	LDT1	Aggregate	5	GAS	2381.006	0.060418	143.855	0.088161	1.078642	0.091346	217.4954	772.6278	1839631	0.010007	23.82771	0.009201	21.9087
Santa Clara	2030	LDT1	Aggregate	5	DSL	1.283785	0.291605	0.374358	0.331972	2.669081	0.193874	0.248893	574.4811	737.5103	0.036765	0.047198	0.035174	0.045156
Santa Clara	2030	LDT2	Aggregate	5	GAS	12579.51	0.051941	653.3934	0.075792	0.940737	0.074588	938.2775	875.3048	11010909	0.009161	115.2368	0.008423	105.956
Santa Clara	2030	LDT2	Aggregate	5	DSL	27.60567	0.261485	7.218464	0.297683	2.59568	0.15131	4.177022	654.007	18054.3	0.009174	0.253245	0.008777	0.242289
Santa Clara	2030	LHDT1	Aggregate	5	GAS	7446.739	0.098102	730.5384	0.14315	0.937286	0.283027	2107.626	1331.266	9913591	0.007948	59.18823	0.007308	54.4214
Santa Clara	2030	LHDT1	Aggregate	5	DSL	7611.022	0.759389	5779.727	0.864514	3.347435	0.834208	6349.174	1163.012	8851710	0.034164	260.0267	0.032687	248.7781
Santa Clara	2030	LHDT2	Aggregate	5	GAS	2341.195	0.033782	79.08938	0.049294	0.313799	0.103628	242.6129	1388.742	3251316	0.007388	17.29623	0.006793	15.90325
Santa Clara	2030	LHDT2	Aggregate	5	DSL	3809.343	0.740847	2822.142	0.843406	3.219268	0.469998	1790.382	1210.964	4612978	0.023157	88.21306	0.022155	84.397
Santa Clara	2030	MCY	Aggregate	5	GAS	358.4953	12.51026	4484.87	15.70605	43.44681	1.629719	584.2467	565.6268	202774.6	0.013228	4.742013	0.012334	4.421711
Santa Clara	2030	MDV	Aggregate	5	GAS	6902.459	0.088768	612.715	0.12953	1.321411	0.135558	935.6862	1190.203	8215327	0.009588	66.18021	0.008816	60.85026
Santa Clara	2030	MDV	Aggregate	5	DSL	183.5655	0.126395	23.20184	0.143893	3.226076	0.075033	13.77352	812.7354	149190.2	0.004764	0.874551	0.004558	0.836718
Santa Clara	2030	MH	Aggregate	5	GAS	217.718	0.128862	28.05561	0.188035	0.868708	0.353879	77.04583	3722.987	810561.3	0.008027	1.747561	0.00738	1.606818
Santa Clara	2030	MH	Aggregate	5	DSL	56.0729	0.824845	46.25145	0.939031	2.148176	11.54232	647.2113	2021.575	113355.6	0.107697	6.038901	0.103038	5.777661
Santa Clara	2030	MHDT	Aggregate	5	GAS	760.2592	0.098318	74.76698	0.143465	0.6546	0.239115	181.7894	3680.5	2798134	0.00751	5.709918	0.006906	5.250058
Santa Clara	2030	MHDT	Aggregate	5	DSL	4413.969	0.248613	1097.371	0.283027	1.300814	10.19488	44999.87	2137.734	9435892	0.00642	28.33962	0.006143	27.11366
Santa Clara	2030	OBUS	Aggregate	5	GAS	423.1026	0.078487	33.20786	0.114527	0.492452	0.196794	83.26399	3682.488	1558070	0.007386	3.125053	0.006791	2.873371
Santa Clara	2030	OBUS	Aggregate	5	DSL	461.7508	0.344287	158.975	0.391945	1.908833	13.37984	6178.152	2407.611	1111716	0.007753	3.580113	0.007418	3.425239
Santa Clara	2030	SBUS	Aggregate	5	GAS	133.9574	0.150906	20.21497	0.220202	1.078459	0.369075	49.44032	1768.928	236961.1	0.006401	0.857527	0.005886	0.788465
Santa Clara	2030	SBUS	Aggregate	5	DSL	191.2259	0.39418	75.37752	0.448744	1.300735	10.59331	2025.716	2183.229	417490.1	0.029354	5.613181	0.028084	5.370358
Santa Clara	2030	UBUS	Aggregate	5	GAS	472.232	0.156001	73.66868	0.227636	1.136773	0.648222	306.1111	3691.85	1743410	0.00733	3.461394	0.00674	3.182624
Santa Clara	2030	UBUS	Aggregate	5	DSL	625.763	1.609884	1007.406	3.765562	18.18613	17.07448	10684.58	3483.127	2179612	0.467867	292.7741	0.447628	280.1089
Santa Clara	2030	HHDT	Aggregate	10	GAS	210.5819	1.285987	270.8055	1.876509	48.27709	4.648607	978.9124	3242.651	682843.5	0.004676	0.984611	0.004299	0.905313
Santa Clara	2030	HHDT	Aggregate	10	DSL	17796.18	0.433884	7721.471	1.597683	6.053378	14.08932	250736.1	2864.787	50982257	0.0105	186.8522	0.010045	178.7691
Santa Clara	2030	LDA	Aggregate	10	GAS	26137.44	0.023831	622.8754	0.034774	0.656406	0.046603	1218.093	504.8915	13196573	0.005767	150.7445	0.005303	138.604
Santa Clara	2030	LDA	Aggregate	10	DSL	347.4736	0.081871	28.44799	0.093205	2.129363	0.055898	19.42305	431.6128	149974	0.004033	1.401251	0.003858	1.340634
Santa Clara	2030	LDT1	Aggregate	10	GAS	1649.116	0.0385	63.49114	0.056179	0.959704	0.078888	130.0955	570.4488	940736	0.006337	10.451	0.005827	9.609312
Santa Clara	2030	LDT1	Aggregate	10	DSL	0.889166	0.215977	0.19204	0.245876	1.988886	0.172609	0.153478	483.579	429.9822	0.027651	0.024586	0.026454	0.023522
Santa Clara	2030	LDT2	Aggregate	10	GAS	8712.736	0.03259	283.9524	0.047556	0.847009	0.065325	569.1604	646.2358	5630482	0.00577	50.27103	0.005305	46.22236
Santa Clara	2030	LDT2	Aggregate	10	DSL	19.12005	0.195729	3.742351	0.222825	1.943027	0.126044	2.409959	550.5212	10525.99	0.008573	0.163923	0.008202	0.156832
Santa Clara	2030	LHDT1	Aggregate	10	GAS	16287.18	0.062822	1023.195	0.09167	0.799253	0.246211	4010.091	1309.411	21326618	0.00501	81.60527	0.004607	75.03303
Santa Clara	2030	LHDT1	Aggregate	10	DSL	19481.64	0.563744	10982.66	0.641785	2.4911	0.804376	15670.57	977.693	19047068	0.027515	536.0309	0.026324	512.8425
Santa Clara	2030	LHDT2	Aggregate	10	GAS	5120.56	0.021476	109.9669	0.031337	0.276372	0.089884	460.2564	1441.455	7381057	0.00465	23.81088	0.004276	21.89322
Santa Clara	2030	LHDT2	Aggregate	10	DSL	9750.63	0.553328	5395.301	0.629928	2.405765	0.42016	4096.828	1076.222	10493840	0.020462	199.5186	0.019577	190.8875
Santa Clara	2030	MCY	Aggregate	10	GAS	248.2986	8.148312	2023.214	10.2265	33.95934	1.48069	367.6532	419.5426	104171.8	0.008522	2.115892	0.007946	1.973053
Santa Clara	2030	MDV	Aggregate	10	GAS	4780.734	0.056063	268.0209	0.081807	1.18652	0.117567	562.0541	878.7565	4201100	0.006051	28.92851	0.005564	26.5987
Santa Clara	2030	MDV	Aggregate	10	DSL	127.1399	0.094586	12.0257	0.10768	2.414863	0.062713	7.973269	690.2102	87753.24	0.004383	0.557257	0.004193	0.53315
Santa Clara	2030	MH	Aggregate	10	GAS	1146.433	0.08103	92.89501	0.118238	0.790664	0.307823	352.8985	3178.177	3643568	0.00505	5.789935	0.004644	5.323632
Santa Clara	2030	MH	Aggregate	10	DSL	289.5	0.618998	179.2	0.704689	1.642336	9.609869	2782.057	1835.599	531405.9	0.094395	27.32735	0.090312	26.14518
Santa Clara	2030	MHDT	Aggregate	10	GAS	4003.281	0.061863	247.6534	0.09027	0.593413	0.208055	832.9026	3141.908	12577939	0.004726	18.91889	0.004345	17.39522
Santa Clara	2030	MHDT	Aggregate	10	DSL	22788.98	0.201279	4586.951	0.229141	1.053572	7.775687	177199.9	1895.591	43198570	0.005754	131.1348	0.005505	125.4619
Santa Clara	2030	OBUS	Aggregate	10	GAS	2227.922	0.049417	110.0974	0.072109	0.444168	0.171281	381.6011	3143.605	7003709	0.004648	10.35479	0.004273	9.520843
Santa Clara	2030	OBUS	Aggregate	10	DSL	2374.386	0.27817	660.4831	0.316675	1.541612	10.1775	24165.3	2132.467	5063298	0.006964	16.53626	0.006663	15.82091
Santa Clara	2030	SBUS	Aggregate	10	GAS	469.514	0.095154	44.67625	0.138849	0.984196	0.31933	149.9297	1510.069	708998.5	0.004028	1.891109	0.003703	1.738805
Santa Clara	2030	SBUS	Aggregate	10	DSL	670.2371	0.312275	209.2981	0.355501	1.054465	8.384188	5619.394	1942.114	1301677	0.025478	17.07619	0.024376	16.33748
Santa Clara	2030	UBUS	Aggregate	10	GAS	1570.115	0.098164	154.1289	0.143241	1.035351	0.56314	884.1941	3151.597	4948369	0.004612	7.241258	0.00424	6.65807
Santa Clara	2030	UBUS	Aggregate	10	DSL	2080.587	1.23138	2561.994	2.849562	14.11351	14.15092	29442.21	3162.694	6580260	0.385292	801.6342	0.368625	766.9558
Santa Clara	2030	HHDT	Aggregate	15	GAS	233.1456	0.854625	199.2521	1.247067	44.13601	4.096951	955.1859	2339.154	545363.3	0.003104	0.72359	0.002854	0.665314
Santa Clara	2030	HHDT	Aggregate	15	DSL	20039.72	0.316119	6334.946	0.669087	2.867361	8.974339	179843.3	2216.81	44424253	0.008914	178.6267	0.008528	170.8994
Santa Clara	2030	LDA	Aggregate	15	GAS	111237.4	0.015884	1766.923	0.023178	0.599067	0.040965	4556.888	388.8593	43255711	0.003831	426.1485	0.003522	391.8279
Santa Clara	2030	LDA	Aggregate	15	DSL	1478.801	0.040247	59.51753	0.045819	1.041517	0.038422	56.81871	355.0003	524974.8	0.003414	5.048442	0.003266	4.830048
Santa Clara	2030	LDT1	Aggregate	15	GAS	7018.415	0.026067	182.9505	0.038037	0.866448	0.0684	480.0607	439.3427	3083480	0.004232	29.70404	0.003891	27.31177
Santa Clara	2030	LDT1	Aggregate	15	DSL	3.784173	0.11284	0.427006	0.128461	1.015246	0.135955	0.514479	400.9667	1517.327	0.021282	0.080536	0.020362	0.077052
Santa Clara	2030	LDT2	Aggregate	15	GAS	37080.24	0.021758	806.7753	0.031749	0.772278	0.057263	2123.327	497.7131	18455321	0.003834	142.1524	0.003525	130.7039
Santa Clara	2030	LDT2	Aggregate	15	DSL	81.37237	0.095624	7.781147	0.108862	0.949139	0.08458	6.882513	456.4728	37144.27	0.007457	0.606795	0.007134	0.580546
Santa Clara	2030	LHDT1	Aggregate	15	GAS	41482.68	0.042372	1757.71	0.061829	0.697432	0.21855	9066.044	909.6311	37733934	0.003332	138.2249	0.003064	127.0927
Santa Clara	2030	LHDT1	Aggregate	15	DSL	49050.79	0.290343	14241.56	0.330536	1.287397	0.741339	36363.26	638.5153	31319679	0.022111	1084.547	0.021154	1037.63
Santa Clara	2030	LHDT2	Aggregate	15	GAS	13041.82	0.01438	187.5469	0.020984	0.246672	0.079533	1037.253	1014.005	13224467	0.003088	40.26957	0.002839	37.02638
Santa Clara	2030	LHDT2	Aggregate	15	DSL	24550.09	0.274212	6731.936	0.312172	1.194693	0.335549	8237.764	716.4084	17587889	0.017311	424.9883	0.016562	406.6035
Santa Clara	2030	MCY	Aggregate	15	GAS	1056.725	5.564986	5880.662	6.982647	27.31211	1.35207	1428.767	322.9813	341302.5	0.00579	6.118638	0.0054	5.705807
Santa Clara	2030	MDV	Aggregate	15	GAS	20346.16	0.037655	766.129	0.054946	1.079393	0.102282	2081.037	676.7919	13770117	0.004028	81.95749	0.003704	75.35689
Santa Clara	2030	MDV	Aggregate	15	DSL	541.0903	0.046288	25.04599	0.052696	1.179885	0.042461	22.97531	585.3446	316724.3	0.003784	2.047295	0.00362	1.95873
Santa Clara	2030	MH	Aggregate	15	GAS	1293.113	0.054057	69.90215	0.07888	0.725529	0.269214	348.1248	2190.723	2832853	0.003352	4.33494	0.003082	3.985817
Santa Clara	2030	MH	Aggregate	15	DSL	352.6388	0.306133	107.9544	0.348512	0.866815	6.508718	2295.222	1507.186	531492.3	0.071981	25.38324	0.068867	24.28518
Santa Clara	2030	MHDT	Aggregate	15	GAS	4515.479	0.041297	186.4764	0.060261	0.54313	0.182017	821.8934	2165.723	9779274	0.003137	14.16543	0.002884	13.02459
Santa Clara	2030	MHDT	Aggregate	15	DSL	27759.17	0.141558	3929.54	0.161153	0.741993	4.718672	130986.4	1590.335	44146384	0.004896	135.898	0.004684	130.0191
Santa Clara	2030	OBUS	Aggregate	15	GAS	2512.973	0.033011	82.95556	0.048169	0.4052	0.149893	376.677	2166.893	5445343	0.003085	7.753419	0.002837	7.128983
Santa Clara	2030	OBUS	Aggregate	15	DSL	2817.348	0.19281	543.214	0.2195	1.065538	6.09395	17168.78	1776.27	5004370	0.005928	16.70042	0.005671	15.97797
Santa Clara	2030	SBUS	Aggregate	15	GAS	939.028	0.063161	59.31006	0.092165	0.898736	0.281951	264.7596	1040.893	977427.9	0.002674	2.510546	0.002458	2.308355
Santa Clara	2030	SBUS	Aggregate	15	DSL	1340.474	0.201781	270.4827	0.229713	0.735546	5.508155	7383.54	1627.163	2181170	0.019533	26.18341	0.018688	25.05073
Santa Clara	2030	UBUS	Aggregate	15	GAS	2663.762	0.065187	173.6421	0.09512	0.945838	0.496818	1323.406	2172.402	5786761	0.003061	8.154545	0.002815	7.497803
Santa Clara	2030	UBUS	Aggregate	15	DSL	3529.798	0.647556	2285.74	1.446035	7.823402	9.815002	34644.98	2596.846	9166344	0.251559	887.9522	0.240677	849.5397
Santa Clara	2030	HHDT	Aggregate	20	GAS	431.1681	0.59658	257.2262	0.870528	40.2905	3.700074	1595.354	1889.885	814858	0.002173	0.937064	0.001998	0.861596
Santa Clara	2030	HHDT	Aggregate	20	DSL	57292.42	0.227061	13008.86	0.329006	1.573849	5.073731	290686.3	1879.453	1.08E+08	0.007564	433.3365	0.007236	414.5905
Santa Clara	2030	LDA	Aggregate	20	GAS	407131	0.011164	4545.127	0.01629	0.548749	0.036709	14945.17	310.9113	1.27E+08	0.002684	1092.9	0.002468	1004.881
Santa Clara	2030	LDA	Aggregate	20	DSL	5412.437	0.015954	86.35228	0.018163	0.406976	0.026371	142.7308	291.2155	1576186	0.002866	15.51052	0.002742	14.83955
Santa Clara	2030	LDT1	Aggregate	20	GAS	25687.52	0.018576	477.1752	0.027106	0.787072	0.060683	1558.796	351.2659	9023151	0.00298	76.54746	0.00274	70.38256
Santa Clara	2030	LDT1	Aggregate	20	DSL	13.85014	0.052233	0.723433	0.059464	0.44539	0.111493	1.544193	329.4247	4562.578	0.016854	0.233426	0.016125	0.223328
Santa Clara	2030	LDT2	Aggregate	20	GAS	135714.3	0.015313	2078.247	0.022345	0.706879	0.051209	6949.819	397.9365	54005675	0.002687	364.6523	0.002471	335.2843
Santa Clara	2030	LDT2	Aggregate	20	DSL	297.8243	0.037237	11.09002	0.042392	0.36946	0.055891	16.64568	375.0272	111692.2	0.006354	1.892516	0.00608	1.810646
Santa Clara	2030	LHDT1	Aggregate	20	GAS	46892.41	0.030039	1408.618	0.043833	0.617919	0.198274	9297.55	789.7601	37033760	0.002338	109.6229	0.002149	100.7942
Santa Clara	2030	LHDT1	Aggregate	20	DSL	52397.6	0.12996	6809.61	0.147951	0.582138	0.705582	36970.79	544.2379	28516761	0.017998	943.0548	0.017219	902.2587
Santa Clara	2030	LHDT2	Aggregate	20	GAS	14742.6	0.010123	149.2427	0.014772	0.221883	0.071914	1060.194	887.4261	13082968	0.002163	31.88811	0.001989	29.31994
Santa Clara	2030	LHDT2	Aggregate	20	DSL	26225.18	0.111176	2915.619	0.126567	0.487455	0.278844	7312.727	611.0437	16024730	0.014526	380.9513	0.013898	364.4715
Santa Clara	2030	MCY	Aggregate	20	GAS	3867.633	4.00943	15507	5.029642	22.91464	1.257859	4864.937	258.0677	998111.2	0.004148	16.04325	0.003868	14.96135
Santa Clara	2030	MDV	Aggregate	20	GAS	74467.3	0.026645	1984.155	0.03888	0.986263	0.090964	6773.865	541.1126	40295194	0.002828	210.5984	0.0026	193.6375
Santa Clara	2030	MDV	Aggregate	20	DSL	1980.4	0.018113	35.87058	0.02062	0.459581	0.028465	56.37299	486.1264	962724.4	0.003211	6.358957	0.003072	6.083872
Santa Clara	2030	MH	Aggregate	20	GAS	1412.973	0.037832	53.45578	0.055205	0.663955	0.241815	341.6781	1540.262	2176348	0.002347	3.31694	0.002158	3.049804
Santa Clara	2030	MH	Aggregate	20	DSL	391.5906	0.125038	48.96367	0.142347	0.406171	4.454864	1744.483	1236.825	484329.1	0.055154	21.59781	0.052768	20.6635
Santa Clara	2030	MHDT	Aggregate	20	GAS	4934.022	0.028921	142.695	0.042201	0.496225	0.163547	806.9421	1522.684	7512958	0.002197	10.8395	0.00202	9.966518
Santa Clara	2030	MHDT	Aggregate	20	DSL	30825.39	0.102263	3152.293	0.116419	0.536752	2.71534	83701.4	1389.159	42821359	0.004327	133.3836	0.00414	127.6135
Santa Clara	2030	OBUS	Aggregate	20	GAS	2745.902	0.023133	63.5211	0.033756	0.369435	0.134728	369.9497	1523.507	4183402	0.002161	5.933222	0.001987	5.455378
Santa Clara	2030	OBUS	Aggregate	20	DSL	3130.38	0.139534	436.7941	0.158849	0.771163	3.494233	10938.28	1551.993	4858328	0.00529	16.55836	0.005061	15.84205
Santa Clara	2030	SBUS	Aggregate	20	GAS	1274.578	0.044239	56.38605	0.064553	0.823097	0.252846	322.2716	731.8351	932780.8	0.001872	2.386236	0.001721	2.194056
Santa Clara	2030	SBUS	Aggregate	20	DSL	1819.476	0.133666	243.2026	0.152169	0.526763	3.67309	6683.099	1413.283	2571434	0.015406	28.03035	0.014739	26.81777
Santa Clara	2030	UBUS	Aggregate	20	GAS	23309.14	0.045617	1063.287	0.066564	0.865484	0.446349	10404	1527.38	35601913	0.002144	49.96751	0.001971	45.94328
Santa Clara	2030	UBUS	Aggregate	20	DSL	30887.35	0.294641	9100.68	0.613806	4.006813	7.496108	231534.9	2131.021	65821590	0.159715	4933.157	0.152805	4719.751
Santa Clara	2030	HHDT	Aggregate	25	GAS	577.6456	0.441164	254.8362	0.643745	37.02713	3.363995	1943.197	1777.949	1027024	0.001606	0.927419	0.001476	0.852727
Santa Clara	2030	HHDT	Aggregate	25	DSL	46784.49	0.169166	7914.332	0.284063	1.302371	2.952999	138154.6	1740.804	81442641	0.007121	333.135	0.006813	318.7237
Santa Clara	2030	LDA	Aggregate	25	GAS	982656	0.008265	8121.528	0.01206	0.50335	0.033465	32884.79	257.814	2.53E+08	0.001984	1949.725	0.001824	1792.7
Santa Clara	2030	LDA	Aggregate	25	DSL	13063.52	0.009701	126.7231	0.011043	0.245221	0.020869	272.6177	244.109	3188923	0.002433	31.78349	0.002328	30.40855
Santa Clara	2030	LDT1	Aggregate	25	GAS	61999.7	0.013912	862.5174	0.0203	0.717609	0.054956	3407.272	291.2781	18059153	0.002211	137.1113	0.002033	126.0688
Santa Clara	2030	LDT1	Aggregate	25	DSL	33.42885	0.034723	1.160761	0.03953	0.290294	0.101722	3.400437	276.2108	9233.409	0.013796	0.46119	0.013199	0.441239
Santa Clara	2030	LDT2	Aggregate	25	GAS	327561.6	0.011351	3718.023	0.016563	0.648063	0.046623	15271.79	329.9782	1.08E+08	0.001986	650.6691	0.001826	598.2662
Santa Clara	2030	LDT2	Aggregate	25	DSL	718.8321	0.022376	16.08452	0.025473	0.221977	0.042626	30.64097	314.4468	226034.5	0.005443	3.912604	0.005208	3.743347
Santa Clara	2030	LHDT1	Aggregate	25	GAS	36919.82	0.022374	826.0497	0.032648	0.553586	0.184377	6807.158	723.9468	26727987	0.00173	63.87853	0.001591	58.73395

Santa Clara	2030	LHDT1	Aggregatec	25	DSL	55166.07	0.084893	4683.207	0.096645	0.386386	0.707041	39004.65	482.6872	26627956	0.014995	827.2308	0.014347	791.4452
Santa Clara	2030	LHDT2	Aggregatec	25	GAS	11607.3	0.007489	86.92995	0.010928	0.200645	0.066646	773.5749	802.4598	9314389	0.001598	18.55381	0.00147	17.05955
Santa Clara	2030	LHDT2	Aggregatec	25	DSL	27610.81	0.068575	1893.419	0.078068	0.303004	0.25767	7114.473	544.5355	15035066	0.01233	340.4418	0.011797	325.7145
Santa Clara	2030	MCY	Aggregatec	25	GAS	9334.965	3.044464	28419.96	3.818292	19.90945	1.189784	11106.59	214.0157	1997829	0.003132	29.23776	0.002921	27.26704
Santa Clara	2030	MDV	Aggregatec	25	GAS	179735.1	0.019838	3565.501	0.028947	0.90305	0.08251	14829.99	448.7035	80647783	0.002094	376.3187	0.001925	346.0112
Santa Clara	2030	MDV	Aggregatec	25	DSL	4779.916	0.010919	52.19418	0.012431	0.276259	0.022023	105.2698	411.0699	1964879	0.002744	13.11489	0.002625	12.54754
Santa Clara	2030	MH	Aggregatec	25	GAS	1596.057	0.027949	44.60826	0.040783	0.6096	0.220427	351.8133	1344.976	2146658	0.001734	2.76786	0.001595	2.544945
Santa Clara	2030	MH	Aggregatec	25	DSL	400.3115	0.080165	32.09106	0.091263	0.278942	3.556602	1423.749	1109.382	444098.4	0.046901	18.77486	0.044872	17.96266
Santa Clara	2030	MHDT	Aggregatec	25	GAS	5573.341	0.021379	119.1529	0.031196	0.45516	0.149132	831.1635	1329.627	7410463	0.001623	9.04565	0.001492	8.317141
Santa Clara	2030	MHDT	Aggregatec	25	DSL	31511.88	0.07494	2361.503	0.085314	0.393411	1.530238	48220.68	1282.015	40398697	0.003923	123.6349	0.003754	118.2865
Santa Clara	2030	OBUS	Aggregatec	25	GAS	3101.699	0.017112	53.07564	0.024969	0.338441	0.122896	381.1868	1330.345	4126330	0.001596	4.951524	0.001468	4.552743
Santa Clara	2030	OBUS	Aggregatec	25	DSL	3193.347	0.102123	326.1129	0.116259	0.56427	1.952061	6233.607	1431.544	4571416	0.004808	15.35428	0.0046	14.69006
Santa Clara	2030	SBUS	Aggregatec	25	GAS	2012.007	0.032669	65.7304	0.047671	0.755425	0.230679	464.1282	639.0475	1285768	0.001383	2.782712	0.001272	2.558601
Santa Clara	2030	SBUS	Aggregatec	25	DSL	2872.165	0.098134	281.8583	0.111719	0.390867	2.706437	7773.334	1298.411	3729251	0.013431	38.5761	0.01285	36.90732
Santa Clara	2030	UBUS	Aggregatec	25	GAS	300.0764	0.033964	10.19166	0.04956	0.800623	0.400345	120.1339	1333.727	400220	0.001584	0.47521	0.001456	0.436938
Santa Clara	2030	UBUS	Aggregatec	25	DSL	397.6365	0.20433	81.24903	0.401882	2.833892	6.858221	2727.079	1911.439	760058	0.123101	48.94942	0.117776	46.83189
Santa Clara	2030	HHDT	Aggregatec	30	GAS	1024.29	0.344456	352.8227	0.502629	34.14806	3.105584	3181.018	1692.797	1733914	0.001251	1.281629	0.00115	1.178411
Santa Clara	2030	HHDT	Aggregatec	30	DSL	77145.79	0.125465	9679.11	0.188957	0.892481	1.90274	146788.3	1624.577	1.25E+08	0.006557	505.8309	0.006273	483.9488
Santa Clara	2030	LDA	Aggregatec	30	GAS	7927136	0.006455	51171.9	0.00942	0.463351	0.030971	245509.4	221.9685	1.76E+09	0.001547	12262.77	0.001422	11275.16
Santa Clara	2030	LDA	Aggregatec	30	DSL	105384.1	0.007367	776.3779	0.008387	0.185629	0.018022	1899.281	211.4432	22282744	0.00214	225.4698	0.002047	215.7161
Santa Clara	2030	LDT1	Aggregatec	30	GAS	500154.7	0.010959	5481.269	0.015992	0.657862	0.050676	25345.86	250.7772	1.25E+08	0.001729	864.9722	0.00159	795.31
Santa Clara	2030	LDT1	Aggregatec	30	DSL	269.6723	0.02731	7.364699	0.03109	0.229093	0.097924	26.40726	238.8441	64409.64	0.011776	3.175738	0.011267	3.038357
Santa Clara	2030	LDT2	Aggregatec	30	GAS	2642456	0.008873	23447.43	0.012948	0.596345	0.043115	113930.8	284.0968	7.51E+08	0.001549	4093.002	0.001424	3763.364
Santa Clara	2030	LDT2	Aggregatec	30	DSL	5798.855	0.01691	98.05696	0.019251	0.167761	0.035615	206.5274	271.9075	1576752	0.00482	27.94907	0.004611	26.74001
Santa Clara	2030	LHDT1	Aggregatec	30	GAS	31293.19	0.017679	553.2474	0.025798	0.505128	0.171803	5376.273	657.0273	20560479	0.001351	42.27104	0.001242	38.86667
Santa Clara	2030	LHDT1	Aggregatec	30	DSL	44175.72	0.066333	2930.309	0.075516	0.307669	0.719266	31774.09	438.3322	19363641	0.012989	573.7822	0.012427	548.9607
Santa Clara	2030	LHDT2	Aggregatec	30	GAS	9838.327	0.00588	57.85191	0.00858	0.183917	0.061892	608.914	725.3002	7135740	0.001246	12.26021	0.001146	11.27281
Santa Clara	2030	LHDT2	Aggregatec	30	DSL	22110.1	0.05239	1158.343	0.059642	0.23333	0.249269	5511.365	491.0842	10857921	0.010841	239.691	0.010372	229.322
Santa Clara	2030	MCY	Aggregatec	30	GAS	75305.63	2.43322	183235.2	3.051087	17.81601	1.140804	85908.97	184.2109	13872121	0.002492	187.6396	0.002324	174.9977
Santa Clara	2030	MDV	Aggregatec	30	GAS	1449932	0.015559	22559.82	0.022704	0.830257	0.076146	110406.7	386.3133	5.6E+08	0.001634	2369.746	0.001503	2178.894
Santa Clara	2030	MDV	Aggregatec	30	DSL	38559.82	0.008263	318.631	0.009407	0.208844	0.018644	718.9177	355.0363	13690137	0.002425	93.50836	0.00232	89.46323
Santa Clara	2030	MH	Aggregatec	30	GAS	1735.05	0.02176	37.75509	0.031752	0.560661	0.204589	354.9724	1235.978	2144483	0.001352	2.344946	0.001243	2.156091
Santa Clara	2030	MH	Aggregatec	30	DSL	485.5991	0.06257	30.38389	0.071232	0.226079	3.076635	1494.011	1041.323	505665.3	0.042306	20.54395	0.040476	19.65523
Santa Clara	2030	MHDT	Aggregatec	30	GAS	6058.697	0.016655	100.9089	0.024303	0.418426	0.138464	838.9139	1221.873	7402957	0.001265	7.663935	0.001163	7.046706
Santa Clara	2030	MHDT	Aggregatec	30	DSL	38225.58	0.05524	2111.581	0.062887	0.289983	0.985421	37668.3	1212.118	46333923	0.003607	137.8859	0.003451	131.921
Santa Clara	2030	OBUS	Aggregatec	30	GAS	3371.811	0.013339	44.97699	0.019464	0.31094	0.114145	384.8747	1222.533	4122150	0.001244	4.195347	0.001144	3.857467
Santa Clara	2030	OBUS	Aggregatec	30	DSL	3924.317	0.075861	297.7026	0.086362	0.419761	1.25158	4911.598	1360.352	5338453	0.004448	17.45677	0.004256	16.70159
Santa Clara	2030	SBUS	Aggregatec	30	GAS	2413.879	0.025452	61.43732	0.037139	0.695214	0.213833	516.1671	587.2586	1417571	0.001078	2.601833	0.000991	2.39229
Santa Clara	2030	SBUS	Aggregatec	30	DSL	3445.843	0.07381	254.3364	0.084027	0.294716	2.244448	7734.015	1225.789	4223876	0.012255	42.22714	0.011724	40.40041
Santa Clara	2030	UBUS	Aggregatec	30	GAS	297.7506	0.026452	7.876219	0.038599	0.736604	0.371389	110.5814	1225.641	364935.4	0.001234	0.367478	0.001135	0.337882
Santa Clara	2030	UBUS	Aggregatec	30	DSL	394.5546	0.163502	64.51027	0.314359	2.273312	6.542004	2581.178	1794.175	707900	0.101432	40.02027	0.097044	38.28901
Santa Clara	2030	HHDT	Aggregatec	35	GAS	1893.114	0.283463	536.6279	0.413629	31.54974	2.918415	5524.891	1623.527	3073521	0.001029	1.947498	0.000946	1.790652
Santa Clara	2030	HHDT	Aggregatec	35	DSL	143080.2	0.092157	13185.86	0.150443	0.693284	1.352746	193551.3	1557.031	2.23E+08	0.00607	868.5678	0.005808	830.994
Santa Clara	2030	LDA	Aggregatec	35	GAS	1726770	0.005304	9159.073	0.00774	0.426811	0.029237	50485.58	198.0973	3.42E+08	0.001272	2196.718	0.00117	2019.801
Santa Clara	2030	LDA	Aggregatec	35	DSL	22955.84	0.005891	135.2232	0.006706	0.147968	0.01617	371.2072	191.1404	4387788	0.001926	44.22282	0.001843	42.30976
Santa Clara	2030	LDT1	Aggregatec	35	GAS	108948.8	0.009054	986.4071	0.013211	0.60472	0.047808	5208.62	223.8167	24384564	0.001425	155.2372	0.00131	142.7349
Santa Clara	2030	LDT1	Aggregatec	35	DSL	58.74278	0.022606	1.327943	0.025736	0.191215	0.096403	5.662957	215.566	12662.95	0.010425	0.612371	0.009974	0.58588
Santa Clara	2030	LDT2	Aggregatec	35	GAS	575606.9	0.007295	4199.259	0.010645	0.549243	0.040696	23425.01	253.5523	1.46E+08	0.001274	733.2785	0.001171	674.2225
Santa Clara	2030	LDT2	Aggregatec	35	DSL	1263.166	0.013452	16.99198	0.015314	0.133474	0.03094	39.0828	245.407	309989.8	0.004357	5.503006	0.004168	5.264949
Santa Clara	2030	LHDT1	Aggregatec	35	GAS	12115.03	0.014593	176.794	0.021294	0.462083	0.165793	2008.586	657.0273	7959904	0.001112	13.47734	0.001023	12.39192
Santa Clara	2030	LHDT1	Aggregatec	35	DSL	24159.11	0.054564	1318.209	0.062117	0.259222	0.741083	17903.91	438.3322	10589716	0.011596	280.1399	0.011094	268.0211
Santa Clara	2030	LHDT2	Aggregatec	35	GAS	3808.868	0.004825	18.37878	0.007041	0.168292	0.059536	226.7643	725.3002	2762572	0.001025	3.903679	0.000942	3.589289
Santa Clara	2030	LHDT2	Aggregatec	35	DSL	12091.72	0.042144	509.5891	0.047978	0.189635	0.247552	2993.328	491.0842	5938052	0.00976	118.0176	0.009338	112.9122
Santa Clara	2030	MCY	Aggregatec	35	GAS	16403.85	2.050639	33638.37	2.570862	16.45965	1.111788	18237.59	164.5657	2699509	0.002088	34.24926	0.001947	31.94272
Santa Clara	2030	MDV	Aggregatec	35	GAS	315839.2	0.012818	4048.446	0.018704	0.764328	0.071839	22689.6	344.7817	1.09E+08	0.001345	424.8266	0.001237	390.6124
Santa Clara	2030	MDV	Aggregatec	35	DSL	8399.496	0.006583	55.29293	0.007494	0.166214	0.01641	137.8359	322.1464	2705867	0.00219	18.39212	0.002095	17.59649
Santa Clara	2030	MH	Aggregatec	35	GAS	2489.728	0.017839	44.41413	0.026031	0.516095	0.193639	482.1097	1141.107	2841047	0.001111	2.766518	0.001022	2.543711
Santa Clara	2030	MH	Aggregatec	35	DSL	635.0064	0.050658	32.16845	0.057671	0.189713	2.748973	1745.615	984.842	625381	0.039594	25.14237	0.037881	24.05472
Santa Clara	2030	MHDT	Aggregatec	35	GAS	8693.992	0.013662	118.7747	0.019935	0.385155	0.131097	1139.755	1128.085	9807561	0.00104	9.042208	0.000956	8.313977
Santa Clara	2030	MHDT	Aggregatec	35	DSL	49986.69	0.040721	2035.506	0.046358	0.213759	0.689609	34471.27	1156.565	57812875	0.003346	167.2707	0.003202	160.0347
Santa Clara	2030	OBUS	Aggregatec	35	GAS	4838.416	0.010948	52.97107	0.015975	0.286205	0.108107	523.0676	1128.694	5461094	0.001023	4.950015	0.000941	4.551356
Santa Clara	2030	OBUS	Aggregatec	35	DSL	5190.447	0.056289	292.167	0.064081	0.311843	0.869983	4515.6	1303.936	6768012	0.004147	21.523	0.003967	20.59192
Santa Clara	2030	SBUS	Aggregatec	35	GAS	2477.543	0.020882	51.73612	0.030471	0.640453	0.202115	500.7491	542.182	1343279	0.000886	2.195563	0.000815	2.018739
Santa Clara	2030	SBUS	Aggregatec	35	DSL	3536.724	0.055712	197.0383	0.063424	0.223614	1.970344	6968.562	1168.12	4131316	0.011498	40.66597	0.011001	38.90678
Santa Clara	2030	UBUS	Aggregatec	35	GAS	413.8366	0.021682	8.972699	0.031638	0.677937	0.351719	145.5543	1131.564	468282.5	0.001015	0.419922	0.000933	0.386102
Santa Clara	2030	UBUS	Aggregatec	35	DSL	548.3821	0.132708	72.77492	0.252924	1.864056	6.326257	3469.206	1696.86	930527.4	0.085189	46.71624	0.081504	44.69531
Santa Clara	2030	HHDT	Aggregatec	40	GAS	1449.908	0.245895	356.5247	0.358809	29.2055	2.79125	4047.056	1564.785	2268794	0.000892	1.293708	0.00082	1.189517
Santa Clara	2030	HHDT	Aggregatec	40	DSL	124392.4	0.068164	8479.107	0.105573	0.493142	1.007066	125271.3	1483.799	1.85E+08	0.005676	706.0596	0.005431	675.5158
Santa Clara	2030	LDA	Aggregatec	40	GAS	1777182	0.0046	8174.885	0.006712	0.394722	0.027972	49711.93	183.6069	3.26E+08	0.001103	1961.099	0.001015	1803.158
Santa Clara	2030	LDA	Aggregatec	40	DSL	23626.03	0.004888	115.4948	0.005565	0.122364	0.014884	351.6392	178.8646	4225860	0.001766	41.73506	0.00169	39.92962
Santa Clara	2030	LDT1	Aggregatec	40	GAS	112129.5	0.007866	882.0383	0.011478	0.55902	0.045837	5139.669	207.4481	23261062	0.001237	138.6691	0.001137	127.5011
Santa Clara	2030	LDT1	Aggregatec	40	DSL	60.45774	0.019526	1.180503	0.022229	0.167266	0.096157	5.813414	201.1922	12163.63	0.009542	0.576916	0.00913	0.551959
Santa Clara	2030	LDT2	Aggregatec	40	GAS	592411.5	0.006328	3748.78	0.009234	0.507939	0.038951	23075.19	235.0085	1.39E+08	0.001105	654.6476	0.001016	601.9243
Santa Clara	2030	LDT2	Aggregatec	40	DSL	1300.044	0.011095	14.42406	0.012631	0.110112	0.027595	35.87525	229.0434	297766.4	0.003996	5.195462	0.003823	4.970709
Santa Clara	2030	LHDT1	Aggregatec	40	GAS	3250.66	0.012642	41.09451	0.018447	0.42578	0.164275	534.0021	654.558	2127745	0.000966	3.141314	0.000889	2.888322
Santa Clara	2030	LHDT1	Aggregatec	40	DSL	12597.06	0.046799	589.5248	0.053277	0.229213	0.766082	9650.378	426.3323	5370532	0.010624	133.8265	0.010164	128.0372
Santa Clara	2030	LHDT2	Aggregatec	40	GAS	1021.981	0.004158	4.249511	0.006068	0.154459	0.058819	60.11216	708.7326	724311.5	0.000889	0.908753	0.000818	0.835565
Santa Clara	2030	LHDT2	Aggregatec	40	DSL	6304.87	0.035227	222.1001	0.040103	0.160693	0.248822	1568.79	473.1475	2983133	0.00895	56.42712	0.008563	53.98611
Santa Clara	2030	MCY	Aggregatec	40	GAS	16882.75	1.816557	30668.47	2.277037	15.61065	1.094566	18479.27	152.5877	2576099	0.001842	31.1007	0.001718	29.00696
Santa Clara	2030	MDV	Aggregatec	40	GAS	325059.9	0.011125	3616.333	0.016234	0.706768	0.068832	22374.43	319.5666	1.04E+08	0.001167	379.3466	0.001073	348.7952
Santa Clara	2030	MDV	Aggregatec	40	DSL	8644.715	0.005439	47.01743	0.006192	0.137178	0.014827	128.1773	301.3236	2604857	0.002008	17.36243	0.001922	16.61133
Santa Clara	2030	MH	Aggregatec	40	GAS	3287.03	0.015451	50.7891	0.022547	0.477053	0.185818	610.7901	1061.632	3489616	0.000964	3.167969	0.000886	2.91283
Santa Clara	2030	MH	Aggregatec	40	DSL	810.9519	0.04231	34.31138	0.048167	0.16386	2.513249	2038.124	939.9398	762246	0.038597	31.30035	0.036927	29.94631
Santa Clara	2030	MHDT	Aggregatec	40	GAS	11478.12	0.011839	135.8943	0.017276	0.356161	0.12584	1444.403	1049.517	12046483	0.000902	10.35481	0.000829	9.520862
Santa Clara	2030	MHDT	Aggregatec	40	DSL	63836.84	0.030022	1916.502	0.034178	0.157584	0.511855	32675.2	1110.783	70908864	0.003126	199.5715	0.002991	190.9382
Santa Clara	2030	OBUS	Aggregatec	40	GAS	6387.853	0.009493	60.6385	0.013852	0.264798	0.103804	663.0821	1050.084	6707781	0.000887	5.668767	0.000816	5.212222
Santa Clara	2030	OBUS	Aggregatec	40	DSL	6996.911	0.042788	299.3808	0.04871	0.238316	0.648558	4537.902	1272.049	8900411	0.003946	27.60772	0.003775	26.41343
Santa Clara	2030	SBUS	Aggregatec	40	GAS	1672.473	0.018087	30.24933	0.026392	0.591986	0.193858	324.2215	504.4204	843629.3	0.000769	1.285522	0.000707	1.18199
Santa Clara	2030	SBUS	Aggregatec	40	DSL	2387.476	0.042346	101.1012	0.048208	0.17125	1.792341	4279.171	1121.035	2676444	0.011137	26.58943	0.010655	25.43918
Santa Clara	2030	UBUS	Aggregatec	40	GAS	575.3152	0.018784	10.8066	0.027409	0.626778	0.33735	194.0828	1052.753	605665	0.00088	0.506338	0.000809	0.465559
Santa Clara	2030	UBUS	Aggregatec	40	DSL	762.3603	0.111618	85.09314	0.210971	1.555191	6.185205	4715.355	1619.494	1234638	0.074318	56.6568	0.071103	54.20585
Santa Clara	2030	HHDT	Aggregatec	45	GAS	1733.196	0.224227	388.6287	0.327191	27.01556	2.732467	4735.903	1530.371	2657433	0.000816	1.415058	0.000751	1.301092
Santa Clara	2030	HHDT	Aggregatec	45	DSL	181740.6	0.050569	9190.483	0.069194	0.335433	0.768536	139674.1	1412.84	2.57E+08	0.005343	971.0864	0.005112	929.0777
Santa Clara	2030	LDA	Aggregatec	45	GAS	3387243	0.004213	14271.97	0.006148	0.367063	0.027152	91971.4	176.8722	5.99E+08	0.00101	3419.789	0.000928	3144.369
Santa Clara	2030	LDA	Aggregatec	45	DSL	45030.32	0.004175	188.0067	0.004753	0.104047	0.013954	628.3469	172.7695	7779865	0.001644	74.04469	0.001573	70.84155
Santa Clara	2030	LDT1	Aggregatec	45	GAS	213714.7	0.007192	1537.01	0.010494	0.520431	0.044712	9555.505	199.831	42706828	0.001131	241.6437	0.00104	222.1825
Santa Clara	2030	LDT1	Aggregatec	45	DSL	115.2302	0.017529	2.019819	0.019955	0.152835	0.09673	11.14623	193.9834	22352.75	0.009019	1.039296	0.008629	0.994336
Santa Clara	2030	LDT2	Aggregatec	45	GAS	1129114	0.005795	6543.27	0.008456	0.472368	0.037844	42730.74	226.381	2.56E+08	0.001011	1141.544	0.00093	1049.607
Santa Clara	2030	LDT2	Aggregatec	45	DSL	2477.834	0.0094	23.29164	0.010701	0.09332	0.02509	62.16826	220.8367	547196.7	0.003707	9.185826	0.003547	8.788452
Santa Clara	2030	LHDT1	Aggregatec	45	GAS	3607.171	0.011721	42.27832	0.017103	0.403132	0.159218	574.3255	651.5521	2350260	0.000885	3.193932	0.000814	2.936703
Santa Clara	2030	LHDT1	Aggregatec	45	DSL	12520.95	0.041657	521.5907	0.047424	0.212134	0.789186	9881.359	415.8536	5206883	0.009965	124.7714	0.009534	119.3738
Santa Clara	2030	LHDT2	Aggregatec	45	GAS	1134.066	0.003837	4.351814	0.005599	0.144987	0.056866	64.48965	692.0295	784807	0.000814	0.922966	0.000748	0.848633
Santa Clara	2030	LHDT2	Aggregatec	45	DSL	6266.779	0.030367	190.3059	0.034571	0.141133	0.250726	1571.244	454.8109	2850200	0.008332	52.21222	0.007971	49.95354
Santa Clara	2030	MCY	Aggregatec	45	GAS	32177.88	1.691138	54417.25	2.119565	15.23319	1.088223	35016.73	146.8436	4725117	0.001711	55.05566	0.001596	51.35038
Santa Clara	2030	MDV	Aggregatec	45	GAS	619552.1	0.01018	6306.742	0.014854	0.657412	0.067052	41541.91	307.8326	1.91E+08	0.001067	661.3098	0.000981	608.0499
Santa Clara	2030	MDV	Aggregatec	45	DSL	16476.5	0.004618	76.09471	0.005258	0.116324	0.013656	225.0006	289.9805	4777864	0.001865	30.72615	0.001784	29.39695
Santa Clara	2030	MH	Aggregatec	45	GAS	2870.921	0.014161	40.65384	0.020663	0.443414	0.179921	516.5391	986.4162	2831923	0.000882	2.531795	0.000811	2.327892
Santa Clara	2030	MH	Aggregatec	45	DSL	632.8808	0.036498	23.09902	0.041551	0.145621	2.335052	1477.809	906.6161	573779.9	0.039222	24.82292	0.037525	23.74909
Santa Clara	2030	MHDT	Aggregatec	45	GAS	10025.09	0.010855	108.8264	0.01584	0.331342	0.121878	1221.837	975.1592	9776063	0.000826	8.275751	0.000759	7.609248
Santa Clara	2030	MHDT	Aggregatec	45	DSL	49819.37	0.02214	1102.986	0.025204	0.116188	0.396271	19741.99	1072.044	53408564	0.002938	146.3691	0.002811	140.0373
Santa Clara	2030	OBUS	Aggregatec	45	GAS	5579.207	0.008708	48.58338	0.012707	0.246628	0.100562	561.0566	975.6861	5443555	0.000812	4.530719	0.000747	4.165829
Santa Clara	2030	OBUS	Aggregatec	45	DSL	5155.433	0.030506	157.2722	0.034729	0.168943	0.487113	2511.278	1211	6243229	0.003628	18.70512	0.003471	17.89595
Santa Clara	2030	SBUS	Aggregatec	45	GAS	802.4121	0.016538	13.27018	0.024132	0.549037	0.188675	151.3948	468.6826	376076.6	0.000703	0.564349	0.000647	0.518898
Santa Clara	2030	SBUS	Aggregatec	45	DSL	1145.453	0.03261	37.35365	0.037124	0.132974	1.672161	1915.382	1081.941	1239312	0.011156	12.77827	0.010673	12.22548
Santa Clara	2030	UBUS	Aggregatec	45	GAS	483.6216	0.01721	8.323031	0.025112	0.582424	0.326793	158.044	978.1665	473062.4	0.000805	0.389467	0.00074	0.358101
Santa Clara	2030	UBUS	Aggregatec	45	DSL	640.8555	0.100069	64.12995	0.185303	1.322073	6.102314	3910.702	1562.078	1001067	0.068785	44.08118	0.065809	42.17425
Santa Clara	2030	HHDT	Aggregatec	50	GAS	1452.119	0.216436	314.2914	0.315823	25.13921	2.699122	3919.446	1511.365	2194683	0.000788	1.144441	0.000725	1.052271
Santa Clara	2030	HHDT	Aggregatec	50	DSL	171018.7	0.037477	6409.2	0.045884	0.23083	0.601091	102797.8	1353.162	2.31E+08	0.005051	863.8512	0.004833	826.4814

Santa Clara	2030	LDA	Aggregated	50	GAS	1172358	0.004061	4760.414	0.005925	0.341438	0.026831	31455.35	176.5891	2.07E+08	0.000974	1142.246	0.000896	1050.253
Santa Clara	2030	LDA	Aggregated	50	DSL	15585.44	0.003651	56.90635	0.004157	0.090467	0.013263	206.7145	173.2093	2699542	0.001551	24.17409	0.001484	23.12833
Santa Clara	2030	LDT1	Aggregated	50	GAS	73968.75	0.006895	510.0033	0.010061	0.485647	0.04454	3294.584	199.5146	14757846	0.001089	80.55403	0.001001	74.06646
Santa Clara	2030	LDT1	Aggregated	50	DSL	39.8823	0.016335	0.651462	0.018596	0.14594	0.097857	3.902747	194.3057	7749.356	0.008801	0.351012	0.00842	0.335827
Santa Clara	2030	LDT2	Aggregated	50	GAS	390797.4	0.005582	2181.306	0.008145	0.439518	0.037456	14637.61	226.0219	88328766	0.000976	381.2506	0.000897	350.5458
Santa Clara	2030	LDT2	Aggregated	50	DSL	857.6028	0.008131	6.973013	0.009256	0.08076	0.023145	19.84953	221.2035	189704.8	0.003469	2.975395	0.003319	2.84668
Santa Clara	2030	LHDT1	Aggregated	50	GAS	31672.33	0.011642	368.7227	0.016988	0.393532	0.151466	4797.289	687.11	21762376	0.000856	27.10222	0.000787	24.91949
Santa Clara	2030	LHDT1	Aggregated	50	DSL	54750.09	0.038423	2103.652	0.043742	0.205653	0.812062	44460.47	435.9669	23869226	0.009563	523.5756	0.009149	500.926
Santa Clara	2030	LHDT2	Aggregated	50	GAS	9957.528	0.003797	37.80701	0.00554	0.13953	0.05399	537.6065	721.4643	7184001	0.000786	7.82459	0.000723	7.194422
Santa Clara	2030	LHDT2	Aggregated	50	DSL	27402.61	0.026889	736.8262	0.030611	0.128244	0.253435	6944.771	471.5624	12922038	0.007861	215.4007	0.007521	206.0826
Santa Clara	2030	MCY	Aggregated	50	GAS	11137.08	1.657453	18459.19	2.07712	15.3976	1.094962	12194.68	146.6717	1633494	0.001672	18.62635	0.00156	17.37311
Santa Clara	2030	MDV	Aggregated	50	GAS	214433	0.009783	2097.809	0.014275	0.612072	0.066651	14292.21	307.3452	65904972	0.001029	220.7046	0.000946	202.9298
Santa Clara	2030	MDV	Aggregated	50	DSL	5702.679	0.004007	22.85196	0.004562	0.10075	0.01276	72.76422	291.4336	1661952	0.001749	9.973833	0.001673	9.542369
Santa Clara	2030	MH	Aggregated	50	GAS	2796.061	0.013609	38.05113	0.019858	0.41088	0.17934	501.4469	922.7463	2580055	0.000851	2.380232	0.000783	2.188535
Santa Clara	2030	MH	Aggregated	50	DSL	746.912	0.032672	24.40285	0.037195	0.13344	2.209408	1650.233	884.8709	660920.6	0.041412	30.93089	0.03962	29.59283
Santa Clara	2030	MHDT	Aggregated	50	GAS	9763.69	0.010437	101.8996	0.015229	0.307501	0.12151	1186.385	912.2159	8906593	0.000797	7.780605	0.000733	7.153979
Santa Clara	2030	MHDT	Aggregated	50	DSL	58795.72	0.016335	960.4405	0.018596	0.085688	0.31848	18725.23	1038.603	61065408	0.002775	163.1843	0.002655	156.1251
Santa Clara	2030	OBUS	Aggregated	50	GAS	5433.729	0.008375	45.50938	0.012221	0.229331	0.10028	544.8924	912.7088	4959412	0.000784	4.25975	0.000721	3.916683
Santa Clara	2030	OBUS	Aggregated	50	DSL	6607.152	0.023551	155.6044	0.026811	0.13147	0.394127	2604.059	1200.237	7930150	0.003513	23.21036	0.003361	22.20629
Santa Clara	2030	SBUS	Aggregated	50	GAS	401.8723	0.016004	6.43175	0.023354	0.512173	0.185405	74.5092	438.4307	176193.2	0.000679	0.272837	0.000624	0.250864
Santa Clara	2030	SBUS	Aggregated	50	DSL	573.6778	0.025691	14.73825	0.029247	0.10536	1.590158	912.2383	1049.178	601890	0.011544	6.622515	0.011045	6.336028
Santa Clara	2030	UBUS	Aggregated	50	GAS	428.1696	0.016522	7.074031	0.024108	0.539135	0.326596	139.8385	915.0291	391787.6	0.000777	0.332848	0.000715	0.306042
Santa Clara	2030	UBUS	Aggregated	50	DSL	567.375	0.097976	55.58899	0.174203	1.151461	6.096505	3459.005	1524.612	865026.8	0.068572	38.90579	0.065605	37.22275
Santa Clara	2030	HHDT	Aggregated	55	GAS	2249.108	0.221199	497.5004	0.322773	23.53854	2.688849	6047.511	1482.908	3335220	0.000803	1.805101	0.000738	1.659724
Santa Clara	2030	HHDT	Aggregated	55	DSL	210796.8	0.027739	5847.262	0.031579	0.163135	0.483537	101927.9	1310.062	2.76E+08	0.004793	1010.382	0.004586	966.673
Santa Clara	2030	LDA	Aggregated	55	GAS	2258596	0.004135	9339.439	0.006034	0.319553	0.026912	60782.9	183.3084	4.14E+08	0.000992	2240.023	0.000912	2059.618
Santa Clara	2030	LDA	Aggregated	55	DSL	30025.99	0.00326	97.89722	0.003712	0.080174	0.012741	382.5495	181.2499	5442206	0.001482	44.49264	0.001418	42.56791
Santa Clara	2030	LDT1	Aggregated	55	GAS	142503.9	0.006961	991.9792	0.010158	0.456747	0.045183	6438.731	207.0955	29511909	0.001105	157.4829	0.001016	144.7997
Santa Clara	2030	LDT1	Aggregated	55	DSL	76.8349	0.015816	1.215211	0.018005	0.146119	0.099374	7.635383	203.1624	15609.96	0.008877	0.682075	0.008493	0.652569
Santa Clara	2030	LDT2	Aggregated	55	GAS	752887.5	0.005679	4275.462	0.008286	0.411492	0.037652	28348.03	234.6121	1.77E+08	0.000993	747.5422	0.000913	687.3375
Santa Clara	2030	LDT2	Aggregated	55	DSL	1652.207	0.007151	11.81448	0.008141	0.071082	0.021595	35.6788	231.2863	382132.9	0.003271	5.403607	0.003129	5.169849
Santa Clara	2030	LHDT1	Aggregated	55	GAS	8152.246	0.011664	95.0839	0.017019	0.37517	0.160139	1305.489	723.9468	5901793	0.000872	7.110554	0.000802	6.537892
Santa Clara	2030	LHDT1	Aggregated	55	DSL	31683.62	0.036747	1164.268	0.041834	0.20952	0.842938	26707.33	455.5699	14434105	0.009397	297.7234	0.00899	284.844
Santa Clara	2030	LHDT2	Aggregated	55	GAS	2563.001	0.003792	9.719574	0.005534	0.130198	0.057002	146.0968	754.3122	1933303	0.0008	2.051337	0.000736	1.886129
Santa Clara	2030	LHDT2	Aggregated	55	DSL	15857.76	0.024416	387.1906	0.027797	0.120763	0.259237	4110.916	488.0898	7740011	0.007512	119.1241	0.007187	113.9708
Santa Clara	2030	MCY	Aggregated	55	GAS	21456.05	1.706404	36612.7	2.138307	16.14941	1.111305	23844.22	152.0526	3262448	0.00172	36.90861	0.001604	34.42577
Santa Clara	2030	MDV	Aggregated	55	GAS	413114.1	0.009918	4097.352	0.014473	0.573597	0.067416	27850.51	319.0231	1.32E+08	0.001046	432.2625	0.000962	397.4494
Santa Clara	2030	MDV	Aggregated	55	DSL	10986.45	0.00354	38.8872	0.00403	0.088783	0.012057	132.4585	307.5642	3379038	0.001655	18.17949	0.001583	17.39306
Santa Clara	2030	MH	Aggregated	55	GAS	3146.695	0.0138	43.42343	0.020136	0.381824	0.181715	571.8015	897.3128	2823570	0.000867	2.727892	0.000797	2.508196
Santa Clara	2030	MH	Aggregated	55	DSL	1039.056	0.03051	31.70162	0.034734	0.126413	2.120431	2203.247	874.7042	908866.9	0.045129	46.8911	0.043176	44.86262
Santa Clara	2030	MHDT	Aggregated	55	GAS	10988.08	0.010586	116.3234	0.015448	0.286448	0.123137	1353.036	887.0726	9747228	0.000812	8.917303	0.000746	8.199131
Santa Clara	2030	MHDT	Aggregated	55	DSL	81792.85	0.012064	986.7207	0.013734	0.063219	0.263351	21540.21	1010.712	82669007	0.002634	215.4773	0.00252	206.1559
Santa Clara	2030	OBUS	Aggregated	55	GAS	6115.133	0.008498	51.96798	0.012401	0.21429	0.101637	621.525	887.552	5427499	0.000798	4.882173	0.000734	4.488978
Santa Clara	2030	OBUS	Aggregated	55	DSL	9940.314	0.018047	179.3897	0.020545	0.101388	0.325637	3236.932	1189.61	11825097	0.003397	33.7636	0.00325	32.303
Santa Clara	2030	SBUS	Aggregated	55	GAS	598.1613	0.016105	9.633558	0.023501	0.472459	0.190422	113.903	426.3463	255023.9	0.000691	0.413556	0.000636	0.380249
Santa Clara	2030	SBUS	Aggregated	55	DSL	853.8828	0.020988	17.92141	0.023893	0.085883	1.544382	1318.721	1021.628	872350.3	0.012295	10.49871	0.011763	10.04454
Santa Clara	2030	UBUS	Aggregated	55	GAS	629.0307	0.016722	10.51864	0.024401	0.500107	0.33207	208.8821	889.8083	559716.8	0.000792	0.497969	0.000728	0.457864
Santa Clara	2030	UBUS	Aggregated	55	DSL	833.5397	0.105287	87.76102	0.176672	1.035662	6.150285	5126.506	1507.095	1256224	0.073665	61.40267	0.070478	58.74642
Santa Clara	2030	HHDT	Aggregated	60	GAS	481.7897	0.236167	113.7826	0.344614	21.89179	2.775788	1337.346	1462.155	704451.2	0.000862	0.415416	0.000793	0.381959
Santa Clara	2030	HHDT	Aggregated	60	DSL	61254.11	0.023853	1461.101	0.027155	0.140155	0.443691	27177.9	1293.615	79239240	0.004676	286.4248	0.004474	274.0342
Santa Clara	2030	LDA	Aggregated	60	GAS	5348999	0.004414	23613.04	0.006442	0.298084	0.027732	148338.5	196.8356	1.05E+09	0.001065	5696.112	0.000979	5237.365
Santa Clara	2030	LDA	Aggregated	60	DSL	71110.1	0.003122	222.0375	0.003555	0.076327	0.012618	897.2496	196.4966	13972893	0.001467	104.3304	0.001404	99.81714
Santa Clara	2030	LDT1	Aggregated	60	GAS	337489.8	0.007349	2480.346	0.010724	0.429354	0.047283	15957.66	222.3958	75056319	0.001182	398.8303	0.001087	366.7097
Santa Clara	2030	LDT1	Aggregated	60	DSL	181.9669	0.016301	2.966196	0.018557	0.157659	0.101876	18.53814	220.0665	40044.82	0.009355	1.702242	0.00895	1.628604
Santa Clara	2030	LDT2	Aggregated	60	GAS	1783052	0.006056	10797.51	0.008836	0.38413	0.038921	69399.01	251.9418	4.49E+08	0.001066	1900.523	0.00098	1747.461
Santa Clara	2030	LDT2	Aggregated	60	DSL	3912.898	0.006745	26.39294	0.007679	0.06713	0.020975	82.07346	250.5304	980299.9	0.003185	12.46355	0.003047	11.92438
Santa Clara	2030	MCY	Aggregated	60	GAS	50814.04	1.85661	94341.87	2.3263	17.90612	1.148637	58366.9	163.605	8313433	0.001861	94.58556	0.001736	88.22371
Santa Clara	2030	MDV	Aggregated	60	GAS	978372	0.010528	10300.46	0.015363	0.536251	0.070272	68752.33	342.5931	3.35E+08	0.001122	1097.351	0.001031	1008.973
Santa Clara	2030	MDV	Aggregated	60	DSL	26019.04	0.003353	87.25298	0.003818	0.083965	0.011811	307.3184	333.0302	8665125	0.001619	42.12248	0.001549	40.30028
Santa Clara	2030	MH	Aggregated	60	GAS	3323.621	0.014793	49.16798	0.021587	0.356508	0.185884	617.8075	902.8877	3000857	0.000931	3.095411	0.000856	2.846116
Santa Clara	2030	MH	Aggregated	60	DSL	1298.681	0.030681	39.84428	0.034928	0.126424	2.093899	2719.307	876.116	1137796	0.050594	65.70544	0.048405	62.86305
Santa Clara	2030	MHDT	Aggregated	60	GAS	11605.9	0.011351	131.7425	0.016564	0.268464	0.125971	1462.01	892.5839	10359239	0.000872	10.11891	0.000802	9.30396
Santa Clara	2030	MHDT	Aggregated	60	DSL	102230.1	0.010373	1060.421	0.011809	0.054314	0.241473	24685.81	998.0119	1.02E+08	0.002571	262.8292	0.00246	251.4593
Santa Clara	2030	OBUS	Aggregated	60	GAS	6458.963	0.009115	58.87044	0.0133	0.201796	0.103985	671.6344	893.0662	5768282	0.000858	5.540126	0.000789	5.093941
Santa Clara	2030	OBUS	Aggregated	60	DSL	11565.35	0.014951	172.9161	0.017021	0.083512	0.29127	3368.642	1155.184	13360101	0.003231	37.37153	0.003092	35.75486
Santa Clara	2030	SBUS	Aggregated	60	GAS	332.9048	0.01735	5.775872	0.025317	0.443219	0.193149	64.30026	428.9952	142814.6	0.000743	0.247269	0.000683	0.227355
Santa Clara	2030	SBUS	Aggregated	60	DSL	475.2259	0.019327	9.184892	0.022003	0.078588	1.526862	725.6042	1009.547	479762.7	0.012804	6.084997	0.012251	5.821763
Santa Clara	2030	UBUS	Aggregated	60	GAS	858.3846	0.017897	15.3628	0.026116	0.466222	0.340868	292.596	895.3365	768543.1	0.00085	0.73004	0.000782	0.671244
Santa Clara	2030	UBUS	Aggregated	60	DSL	1137.461	0.122108	138.8933	0.194789	0.9907	6.262215	7123.023	1509.528	1717028	0.08414	95.70621	0.0805	91.566
Santa Clara	2030	HHDT	Aggregated	65	GAS	264.4996	0.267499	70.75337	0.390334	20.52585	2.879283	761.5692	1458.167	385684.7	0.000977	0.258476	0.000899	0.237659
Santa Clara	2030	HHDT	Aggregated	65	DSL	33898.6	0.023853	808.587	0.027155	0.140155	0.443712	15041.22	1293.615	43851732	0.004676	158.5101	0.004474	151.6531
Santa Clara	2030	LDA	Aggregated	65	GAS	2240214	0.004996	11192.63	0.00729	0.28041	0.028724	64347.79	220.0066	4.93E+08	0.001206	2701.966	0.001109	2484.358
Santa Clara	2030	LDA	Aggregated	65	DSL	29781.62	0.003176	94.59757	0.003616	0.077318	0.012767	380.2175	220.902	6578818	0.001501	44.71585	0.001437	42.78147
Santa Clara	2030	LDT1	Aggregated	65	GAS	141344.1	0.008204	1159.594	0.011971	0.407897	0.049944	7059.257	248.5673	35133522	0.001332	188.2718	0.001225	173.109
Santa Clara	2030	LDT1	Aggregated	65	DSL	76.20958	0.017768	1.354104	0.020228	0.182028	0.104884	7.993164	247.1842	18837.8	0.010296	0.784662	0.009851	0.750718
Santa Clara	2030	LDT2	Aggregated	65	GAS	746760	0.006844	5110.631	0.009986	0.361642	0.040475	30224.91	281.592	2.1E+08	0.001207	901.3003	0.00111	828.7124
Santa Clara	2030	LDT2	Aggregated	65	DSL	1638.761	0.006756	11.07108	0.007691	0.067351	0.021009	34.42808	281.402	461150.6	0.003192	5.230821	0.003054	5.004538
Santa Clara	2030	MCY	Aggregated	65	GAS	21281.43	2.112084	44948.16	2.646346	20.66947	1.187291	25267.24	182.7071	3888268	0.002119	45.09203	0.001976	42.05939
Santa Clara	2030	MDV	Aggregated	65	GAS	409752	0.011833	4848.56	0.017267	0.50582	0.073866	30266.75	382.9092	1.57E+08	0.001268	519.5002	0.001166	477.6613
Santa Clara	2030	MDV	Aggregated	65	DSL	10897.03	0.003374	36.76654	0.003841	0.084384	0.011884	129.4964	373.9462	4074904	0.001632	17.78237	0.001561	17.01312
Santa Clara	2030	MH	Aggregated	65	GAS	433.2836	0.016929	7.33509	0.024703	0.337589	0.188886	81.84111	919.6251	398458.5	0.001056	0.45735	0.000971	0.420516
Santa Clara	2030	MH	Aggregated	65	DSL	182.7843	0.032811	5.997266	0.037353	0.13242	2.113202	386.2602	889.1063	162514.7	0.057742	10.55431	0.055244	10.09774
Santa Clara	2030	MHDT	Aggregated	65	GAS	1513.002	0.012992	19.65668	0.018958	0.255719	0.128006	193.6732	909.1303	1375516	0.000988	1.495096	0.000909	1.374686
Santa Clara	2030	MHDT	Aggregated	65	DSL	14388.49	0.010373	149.2501	0.011809	0.054314	0.24079	3464.598	998.0119	14359886	0.002571	36.99219	0.00246	35.39192
Santa Clara	2030	OBUS	Aggregated	65	GAS	842.0221	0.010433	8.785038	0.015224	0.19364	0.105665	88.97199	909.6215	765921.4	0.000972	0.818576	0.000894	0.752651
Santa Clara	2030	OBUS	Aggregated	65	DSL	1461.924	0.014063	20.55967	0.01601	0.077729	0.283391	414.296	1123.243	1642095	0.003114	4.552372	0.002979	4.355438
Santa Clara	2030	SBUS	Aggregated	65	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	UBUS	Aggregated	65	GAS	124.2795	0.020431	2.539208	0.029813	0.440451	0.34804	43.2543	911.934	113334.7	0.00964	0.119794	0.000886	0.110146
Santa Clara	2030	UBUS	Aggregated	65	DSL	164.685	0.14838	24.43603	0.227394	1.007626	6.417228	1056.821	1531.91	1252282.5	0.099975	16.46438	0.09565	15.75214
Santa Clara	2030	HHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	MHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	OBUS	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	SBUS	Aggregated	70	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	MHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	OBUS	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	SBUS	Aggregated	75	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	MHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	OBUS	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	SBUS	Aggregated	80	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	MHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	OBUS	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	SBUS	Aggregated	85	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	MHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	OBUS	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0
Santa Clara	2030	SBUS	Aggregated	90	DSL	0	0	0	0	0	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Santa Clara
Calendar Year: 2030
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

							50821595	9972519																												
Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	ROG_RUNI	ROG_IDLEX	ROG_STREX		ROG_HOTS	ROG_RUNI	ROG_REST	ROG_DIUR	NOx_RUNI	NOx_IDLEX	NOx_STREX		CO2_RUNE	CO2_IDLEX	CO2_STREX		PM10_RUI	PM10_IDLI	PM10_STREX		PM10_PM'	PM10_PMBW		PM2_5_RU	PM2_5_IDI	PM2_5_STREX		PM2_5_PN
Santa Clara	2030	HHDT	Aggregate	Aggregate	GAS	103.7965	12054.51	2076.76	0.308836	0	0.761858	1582.197	0.048416	0.234666	0.013451	0.021194	2.929881	0	3.197873	6641.214	1628.022	0	129.0597	268026	0.001123	0	0.001418	2.94587	0.02	0.06174	985.3358	0.001032	0	0.001304	2.708619	0.005
Santa Clara	2030	HHDT	Aggregate	Aggregate	DSL	8104.918	1150780	0	0.080773	1.002059	0	0	0	0	0	0	1.573584	32.79567	0	0	1497.5	10884.83	0	0	0.005707	0.009929	0	0	0.035582	0.061023	111170.2	0.00546	0.0095	0	0	0.008895
Santa Clara	2030	LDA	Aggregate	Aggregate	GAS	869596.5	27403398	5486205	0.005407	0	0.032233	176839	0.06659	0.181919	0.113948	0.126456	0.029128	0	0.033383	183146.1	206.3986	0	48.2591	2.65E+08	0.001299	0	0.002073	11370.96	0.008	0.03675	1226302	0.001194	0	0.001906	10455.17	0.002
Santa Clara	2030	LDA	Aggregate	Aggregate	DSL	11197.44	364303.3	71194.77	0.005607	0	0	0	0	0	0	0	0.015488	0	0	0	200.5738	0	0	0	0.00181	0	0	0	0.008	0.03675	16302.58	0.001731	0	0	0	0.002
Santa Clara	2030	LDA	Aggregate	Aggregate	ELEC	103921.1	3819981	670806.2	0	0	0	0	0.004884	0	0.00456	0.017501	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.03675	170944.2	0	0	0	0	0.002
Santa Clara	2030	LDT1	Aggregate	Aggregate	GAS	56245.58	1728990	348896.9	0.009114	0	0.061119	21324.17	0.116397	0.461663	0.232996	0.280285	0.048464	0	0.056041	19552.53	233.1914	0	54.67698	19076629	0.001448	0	0.00219	763.9267	0.008	0.03675	77372.32	0.001331	0	0.002013	702.4024	0.002
Santa Clara	2030	LDT1	Aggregate	Aggregate	DSL	30.22298	932.2328	185.6133	0.022481	0	0	0	0	0	0	0	0.099718	0	0	0	225.6	0	0	0	0.010482	0	0	0	0.008	0.03675	41.71743	0.010028	0	0	0	0.002
Santa Clara	2030	LDT1	Aggregate	Aggregate	ELEC	28.68226	844.1758	175.9254	0	0	0	0	0.004884	0	0.00456	0.017501	0	0	0	0	0	0	0	0	0	0	0	0	0.008	0.03675	37.77688	0	0	0	0	0.002
Santa Clara	2030	LDT2	Aggregate	Aggregate	GAS	285882.4	9134734	1805677	0.007427	0	0.043209	78021.94	0.069924	0.287308	0.176027	0.182513	0.040682	0	0.050251	90737.74	264.1735	0	61.50928	1.11E+08	0.0013	0	0.002024	3654.467	0.008	0.03675	408779.5	0.001195	0	0.001861	3360.147	0.002
Santa Clara	2030	LDT2	Aggregate	Aggregate	DSL	620.5025	20046.12	3947.074	0.012717	0	0	0	0	0	0	0	0.028756	0	0	0	256.8299	0	0	0	0.004028	0	0	0	0.008	0.03675	897.0642	0.003853	0	0	0	0.002
Santa Clara	2030	LHDT1	Aggregate	Aggregate	GAS	8691.321	239119.5	129487.7	0.029372	0.290485	0.310948	40263.96	0.165911	1.209568	0.031778	0.057954	0.191889	0.025798	1.408418	182372.9	808.7943	111.9035	56.2802	7287596	0.002295	0	0.001388	179.7772	0.008	0.07644	20191.25	0.00211	0	0.001277	165.2985	0.002
Santa Clara	2030	LHDT1	Aggregate	Aggregate	DSL	11213.14	363593.7	141047.2	0.140608	0.10976	0	0	0	0	0	0	0.755613	1.537003	0	0	531.3549	128.786	0	0	0.01536	0.019043	0	0	0.012	0.07644	32156.23	0.014695	0.018219	0	0	0.003
Santa Clara	2030	LHDT2	Aggregate	Aggregate	GAS	2167.865	75177.24	32297.96	0.009912	0.251736	0.130968	4229.998	0.053305	0.324455	0.013776	0.023057	0.069408	0.022282	0.790526	25532.37	888.2865	126.3288	65.58549	2118277	0.002124	0	0.001122	36.25413	0.008	0.08918	7305.726	0.001953	0	0.001032	33.33434	0.002
Santa Clara	2030	LHDT2	Aggregate	Aggregate	DSL	5146.204	181979.9	64732.77	0.126183	0.10976	0	0	0	0	0	0	0.281639	1.313935	0	0	588.2291	203.6556	0	0	0.012281	0.019715	0	0	0.012	0.08918	18412.73	0.01175	0.018862	0	0	0.003
Santa Clara	2030	MCY	Aggregate	Aggregate	GAS	38975.3	260324.8	77942.81	2.122875	0	2.113117	164702.2	0.611573	1.532378	0.923903	1.753763	1.135765	0	0.316571	24674.44	171.3808	0	42.84944	3339806	0.002157	0	0.003321	258.8749	0.004	0.01176	4102.72	0.002012	0	0.003107	242.1751	0.001
Santa Clara	2030	MDV	Aggregate	Aggregate	GAS	169938	5012286	1048581	0.012983	0	0.099959	104815.2	0.13038	0.441988	0.323397	0.332156	0.072493	0	0.114223	119772.6	359.2231	0	84.39445	88494423	0.00137	0	0.002136	2239.542	0.008	0.03675	224299.9	0.00126	0	0.001964	2059.176	0.002
Santa Clara	2030	MDV	Aggregate	Aggregate	DSL	4245.964	133297.8	26940.32	0.006235	0	0	0	0	0	0	0	0.015442	0	0	0	337.8976	0	0	0	0.002033	0	0	0	0.008	0.03675	5965.08	0.001945	0	0	0	0.002
Santa Clara	2030	MH	Aggregate	Aggregate	GAS	3169.045	25748.68	317.0312	0.023322	0	0.281498	89.2436	0.047744	1.105641	0.0229	0.058567	0.202297	0	0.80098	253.9356	1231.908	0	72.85309	23096.7	0.001454	0	0.001132	0.358969	0.012	0.13034	3665.069	0.001337	0	0.001041	0.330059	0.003
Santa Clara	2030	MH	Aggregate	Aggregate	DSL	896.3953	7321.986	89.63953	0.086912	0	0	0	0	0	0	0	3.087596	0	0	0	1016.371	0	0	0	0.048486	0	0	0	0.016	0.13034	1071.5	0.046388	0	0	0	0.004
Santa Clara	2030	MHDT	Aggregate	Aggregate	GAS	1883.726	89912.96	37689.6	0.017848	0.780296	0.425133	16023.09	0.056352	0.289408	0.013971	0.023507	0.136962	0.069011	0.970238	36567.88	1217.849	498.7296	108.6951	4096673	0.001361	0	0.0015	56.55053	0.012	0.13034	12798.22	0.001251	0	0.00138	51.99612	0.003
Santa Clara	2030	MHDT	Aggregate	Aggregate	DSL	12797.38	576375	0	0.044157	0.016284	0	0	0	0	0	0	1.176458	1.814588	0	0	1159.985	637.2254	0	0	0.003265	0.000279	0	0	0.012	0.13034	82041.25	0.003124	0.000267	0	0	0.003
Santa Clara	2030	OBUS	Aggregate	Aggregate	GAS	1025.253	50038.73	20513.26	0.014292	0.574516	0.287631	5900.24	0.01635	0.187527	0.011816	0.025911	0.112948	0.050768	0.726084	14894.35	1218.507	353.9161	72.13373	1479698	0.001338	0	0.001042	21.37232	0.012	0.13034	7122.515	0.00123	0	0.000958	19.65106	0.003
Santa Clara	2030	OBUS	Aggregate	Aggregate	DSL	931.5972	62819.06	0	0.058908	0.160419	0	0	0	0	0	0	1.445173	5.919341	0	0	1315.153	2314.562	0	0	0.004026	0.000543	0	0	0.012	0.13034	8941.667	0.003852	0.00052	0	0	0.003
Santa Clara	2030	SBUS	Aggregate	Aggregate	GAS	324.5727	13528.33	1298.291	0.031405	8.030735	0.77602	1007.499	0.068603	0.447509	0.013782	0.029072	0.221445	0.71019	1.041399	1352.039	642.838	2390.354	121.1595	157300.2	0.001331	0	0.00216	2.804073	0.008	0.7448	10184.13	0.001224	0	0.001986	2.578241	0.002
Santa Clara	2030	SBUS	Aggregate	Aggregate	DSL	510.8702	19311.86	0	0.088645	0.135078	0	0	0	0	0	0	2.76197	21.23111	0	0	1264.817	3580.094	0	0	0.013512	0.010893	0	0	0.012	0.7448	14615.22	0.012928	0.010421	0	0	0.003
Santa Clara	2030	UBUS	Aggregate	Aggregate	GAS	259.7112	32125.71	1038.845	0.048136	0	1.503744	1562.156	0.088892	0.67843	0.014113	0.024169	0.446081	0	2.610312	2711.709	1625.676	0	293.9594	305378.1	0.002262	0	0.003246	3.371925	0.012	0.13034	4572.775	0.00208	0	0.002984	3.100361	0.003
Santa Clara	2030	UBUS	Aggregate	Aggregate	DSL	344.1478	42570.34	1376.591	0.367163	0	0	0	0	0	0	0	7.997951	0	0	0	2172.23	0	0	0	0.172994	0	0	0	0.012	0.84182	36347.42	0.165511	0	0	0	0.003

PM2_5_PMBW	
0.02646	379.2349
0.026153	40332.46
0.01575	486410.4
0.01575	6466.386
0.01575	67804.68
0.01575	30689.58
0.01575	16.54714
0.01575	14.98413
0.01575	162141.6
0.01575	355.8188
0.03276	8311.795
0.03276	13002.11
0.03822	3023.63
0.03822	7501.213
0.00504	1572.362
0.01575	88968.11
0.01575	2366.037
0.05586	1515.568
0.05586	438.2942
0.05586	5292.279
0.05586	33925.45
0.05586	2945.281
0.05586	3697.531
0.3192	4345.3
0.3192	6222.283
0.05586	1890.92
0.36078	15486.24

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

Santa Clara County Entrained Roadway Dust Calculations

PM10

Silt Loading in g/m^2	Freeway	Major	Collector	Local
	0.02	0.032	0.032	0.32

Calculated silt loading factor
0.045

Fraction of travel		million VMT per y	Freeway	Major	Collector	Local
Santa Clara County	BA	15,374	0.434	0.449	0.054	0.064

Total PM10 emissions			tons per year			
Santa Clara County	BA	2,243	487.36	773.45	92.29	889.86

Rate	0.14589307	
	0.00029179	lbs/mi
	0.1324709	g/mi

http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2014.pdf

North Bayshore Precise Plan AQ & GHG Emissions Analysis

Mobile Emissions

Santa Clara County Entrained Roadway Dust Calculations

PM2.5

Total PM10 emissions			tons per year			
Santa Clara County	BA	2,243	487.36	773.45	92.29	889.86
PM2.5 Emissions -		ARB Multiplier =		0.0686		
		154	33.4329	53.05867	6.331094	61.0444

million VMT per year

15,374

Rate 0.01000826

2.0017E-05 lbs/mi

0.0091 g/mi

http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2014.pdf

Attachment 3: US Highway 101 Emissions and Risk Calculations

Highway 101 Emission Calculations and Roadway Modeling Parameters

North Bayshore Precise Plan, Redwood City, CA
Hwy-101
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2030

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	Diesel ADT	Average Speed (mph)
NB 101	Northbound 101	NW	4	14056	68	20.6	3.4	4,008	variable
SB 101	Southbound 101	SE	4	14092	68	20.6	3.4	4,008	variable

2030 Hourly Diesel Traffic Volumes Per Direction and DPM Emissions - NB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	2.77%	111	0.0040	9	6.39%	256	0.0055	17	5.81%	233	0.0052
2	1.82%	73	0.0046	10	7.09%	284	0.0032	18	4.12%	165	0.0054
3	1.97%	79	0.0049	11	6.35%	254	0.0031	19	3.42%	137	0.0027
4	2.27%	91	0.0037	12	6.78%	272	0.0032	20	2.48%	100	0.0021
5	1.52%	61	0.0041	13	6.27%	251	0.0031	21	4.04%	162	0.0028
6	2.31%	93	0.0036	14	6.19%	248	0.0031	22	4.87%	195	0.0029
7	6.13%	245	0.0029	15	5.45%	219	0.0029	23	1.79%	72	0.0040
8	4.99%	200	0.0049	16	4.59%	184	0.0029	24	0.58%	23	0.0042
								Total		4,008	

2030 Hourly Diesel Traffic Volumes Per Direction and DPM Emissions - SB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	2.77%	111	0.0040	9	6.39%	256	0.0039	17	5.81%	233	0.0038
2	1.82%	73	0.0046	10	7.09%	284	0.0032	18	4.12%	165	0.0034
3	1.97%	79	0.0049	11	6.35%	254	0.0031	19	3.42%	137	0.0027
4	2.27%	91	0.0037	12	6.78%	272	0.0032	20	2.48%	100	0.0021
5	1.52%	61	0.0041	13	6.27%	251	0.0031	21	4.04%	162	0.0028
6	2.31%	93	0.0036	14	6.19%	248	0.0031	22	4.87%	195	0.0029
7	6.13%	245	0.0029	15	5.45%	219	0.0029	23	1.79%	72	0.0040
8	4.99%	200	0.0036	16	4.59%	184	0.0029	24	0.58%	23	0.0042
								Total		4,008	

North Bayshore Precise Plan, Redwood City, CA
Hwy-101
PM2.5 & TOG Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2030

Group Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	ADT	Average Speed (mph)
NB 101	Northbound 101	NW	4	14056	68	20.6	1.3	130,525	variable
SB 101	Southbound 101	SE	4	14092	68	20.6	1.3	130,525	variable

2030 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - NB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.11%	1446	0.0209	9	7.09%	9249	0.0206	17	7.38%	9631	0.0203
2	0.38%	493	0.0219	10	4.31%	5625	0.0203	18	8.25%	10774	0.0201
3	0.32%	412	0.0222	11	4.62%	6024	0.0199	19	5.77%	7530	0.0192
4	0.21%	276	0.0288	12	5.86%	7649	0.0198	20	4.34%	5664	0.0192
5	0.46%	602	0.0214	13	6.17%	8054	0.0196	21	3.28%	4277	0.0195
6	0.85%	1110	0.0222	14	6.04%	7877	0.0197	22	3.31%	4322	0.0197
7	3.79%	4942	0.0200	15	7.06%	9222	0.0195	23	2.47%	3225	0.0195
8	7.87%	10270	0.0201	16	7.20%	9396	0.0193	24	1.88%	2457	0.0192
								Total		130,525	

2030 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - SB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.11%	1446	0.0209	9	7.09%	9249	0.0196	17	7.38%	9631	0.0193
2	0.38%	493	0.0219	10	4.31%	5625	0.0203	18	8.25%	10774	0.0191
3	0.32%	412	0.0222	11	4.62%	6024	0.0199	19	5.77%	7530	0.0192
4	0.21%	276	0.0288	12	5.86%	7649	0.0198	20	4.34%	5664	0.0192
5	0.46%	602	0.0214	13	6.17%	8054	0.0196	21	3.28%	4277	0.0195
6	0.85%	1110	0.0222	14	6.04%	7877	0.0197	22	3.31%	4322	0.0197
7	3.79%	4942	0.0200	15	7.06%	9222	0.0195	23	2.47%	3225	0.0195
8	7.87%	10270	0.0191	16	7.20%	9396	0.0193	24	1.88%	2457	0.0192
								Total		130,525	

North Bayshore Precise Plan, Redwood City, CA
Hwy-101
Entrained PM2.5 Road Dust Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2030

Group Link	Description	Direction	No. Lanes	Link Length (m)	Link Width (ft)	Link Width (m)	Release Height (m)	ADT	Average Speed (mph)
NB 101	Northbound 101	NW	4	14056	68	20.6	1.3	130,525	variable
SB 101	Southbound 101	SE	4	14092	68	20.6	1.3	130,525	variable

2030 Hourly Traffic Volumes Per Direction and Road Dust PM2.5 Emissions - NB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.11%	1446	0.0100	9	7.09%	9249	0.0100	17	7.38%	9631	0.0100
2	0.38%	493	0.0100	10	4.31%	5625	0.0100	18	8.25%	10774	0.0100
3	0.32%	412	0.0100	11	4.62%	6024	0.0100	19	5.77%	7530	0.0100
4	0.21%	276	0.0100	12	5.86%	7649	0.0100	20	4.34%	5664	0.0100
5	0.46%	602	0.0100	13	6.17%	8054	0.0100	21	3.28%	4277	0.0100
6	0.85%	1110	0.0100	14	6.04%	7877	0.0100	22	3.31%	4322	0.0100
7	3.79%	4942	0.0100	15	7.06%	9222	0.0100	23	2.47%	3225	0.0100
8	7.87%	10270	0.0100	16	7.20%	9396	0.0100	24	1.88%	2457	0.0100
								Total		130,525	

2030 Hourly Traffic Volumes Per Direction and Road Dust PM2.5 Emissions - SB 101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.11%	1446	0.0100	9	7.09%	9249	0.0100	17	7.38%	9631	0.0100
2	0.38%	493	0.0100	10	4.31%	5625	0.0100	18	8.25%	10774	0.0100
3	0.32%	412	0.0100	11	4.62%	6024	0.0100	19	5.77%	7530	0.0100
4	0.21%	276	0.0100	12	5.86%	7649	0.0100	20	4.34%	5664	0.0100
5	0.46%	602	0.0100	13	6.17%	8054	0.0100	21	3.28%	4277	0.0100
6	0.85%	1110	0.0100	14	6.04%	7877	0.0100	22	3.31%	4322	0.0100
7	3.79%	4942	0.0100	15	7.06%	9222	0.0100	23	2.47%	3225	0.0100
8	7.87%	10270	0.0100	16	7.20%	9396	0.0100	24	1.88%	2457	0.0100
								Total		130,525	

North Bayshore Precise Plan, Redwood City, CA

Highway 101 Traffic Data and PM2.5 & TOG Emission Factors - 60 mph Trucks & 65 mph Other Vehicles

Analysis Year = ***2030***

Vehicle Type	2015 Caltrans Number Vehicles (veh/day)	2030 Number Vehicles (veh/day)	2030 Percent Diesel	Number Diesel Vehicles (veh/day)	Vehicle Speed (mph)	Emission Factors: Diesel Vehicles DPM (g/VMT)	All Vehicles: Total PM2.5 (g/VMT)	All Vehicles: Exhaust PM2.5 (g/VMT)	Gas Vehicles: Exhaust TOG (g/VMT)	Gas Vehicles: Running TOG (g/VMT)
LDA	155,737	179,098	1.31%	2,350	65	0.0014	0.0189	0.0011	0.0073	0.036
LDT	61,048	70,205	0.19%	135	65	0.0034	0.0189	0.0011	0.0103	0.063
MDT	5,599	6,439	11.30%	728	60	0.0060	0.0219	0.0014	0.0154	0.151
HDT	4,616	5,309	90.47%	4,803	60	0.0036	0.0526	0.0033	0.0236	0.069
Total	227,000	261,050	-	8,016	62.5	-	-		-	-
Mix Avg Emission Factor						**0.00315**	**0.01963**	**0.00117**	**0.00834**	**0.04631**
Increase From 2015		1.15								
Vehicles/Direction		130,525		4,008						
Avg Vehicles/Hour/Direction		**5,439**		**167**						

Traffic Data Year = ***2015***

Caltrans 2015 Truck AADT Report	Total	Total Truck	Truck by Axle: 2	3	4	5
101-A Mountain View, Jct Rte 85 South	227,000	10,215	5,599	1,547	360	2,710
0			54.81%	15.14%	3.52%	26.53%
Percent of Total Vehicles		4.50%	2.47%	0.68%	0.16%	1.19%

Traffic Increase per Year (%) = ***1.00%***

North Bayshore Precise Plan, Redwood City, CA

Hwy-101 Traffic Data and PM2.5 & TOG Emission Factors - 45 mph

Analysis Year = ***2030***

Vehicle Type	2015 Caltrans Number Vehicles (veh/day)	2030 Number Vehicles (veh/day)	2030 Percent Diesel	Number Diesel Vehicles (veh/day)	Vehicle Speed (mph)	Emission Factors: Diesel Vehicles DPM (g/VMT)	All Vehicles: Total PM2.5 (g/VMT)	All Vehicles: Exhaust PM2.5 (g/VMT)	Gas Vehicles: Exhaust TOG (g/VMT)	Gas Vehicles: Running TOG (g/VMT)
LDA	155,737	179,098	1.31%	2,350	45	0.0016	0.0187	0.0009	0.0061	0.036
LDT	61,048	70,205	0.19%	135	45	0.0038	0.0187	0.0010	0.0088	0.063
MDT	5,599	6,439	11.30%	728	45	0.0056	0.0217	0.0012	0.0149	0.151
HDT	4,616	5,309	90.47%	4,803	45	0.0047	0.0537	0.0044	0.0417	0.069
Total	227,000	261,050	-	8,016	45	-	-		-	-
Mix Avg Emission Factor						**0.00386**	**0.01948**	**0.00102**	**0.00714**	**0.04631**

North Bayshore Precise Plan, Redwood City, CA

Hwy-101 Traffic Data and PM2.5 & TOG Emission Factors - 25 mph

Analysis Year = ***2030***

Vehicle Type	2015 Caltrans Number Vehicles (veh/day)	2030 Number Vehicles (veh/day)	2030 Percent Diesel	Number Diesel Vehicles (veh/day)	Vehicle Speed (mph)	Emission Factors: Diesel Vehicles DPM (g/VMT)	All Vehicles: Total PM2.5 (g/VMT)	All Vehicles: Exhaust PM2.5 (g/VMT)	Gas Vehicles: Exhaust TOG (g/VMT)	Gas Vehicles: Running TOG (g/VMT)
LDA	155,737	179,098	1.31%	2,350	25	0.0023	0.0196	0.0018	0.0121	0.036
LDT	61,048	70,205	0.19%	135	25	0.0056	0.0196	0.0019	0.0172	0.063
MDT	5,599	6,439	11.30%	728	25	0.0129	0.0254	0.0049	0.0286	0.151
HDT	4,616	5,309	90.47%	4,803	25	0.0060	0.0547	0.0054	0.0610	0.069
Total	227,000	261,050	-	8,016	25	-	-	-	-	-
Mix Avg Emission Factor						**0.00553**	**0.02045**	**0.00199**	**0.01394**	**0.04631**

North Bayshore Precise Plan, Redwood City, CA
Hwy-101 Traffic Data and Entrained PM2.5 Road Dust Emission Factors

$E_{2.5} = [k(sL)^{0.91} \times (W)^{1.02} \times (1-P/4N) \times 453.59$

where:

$E_{2.5}$ = $PM_{2.5}$ emission factor (g/VMT)

k = particle size multiplier (g/VMT) [$k_{PM2.5} = k_{PM10}$ x (0.0686/0.4572) = 1.0 x 0.15 = 0.15 g/VM

sL = roadway specific silt loading (g/m^2)

W = average weight of vehicles on road (Bay Area default = 2.4 tons)[a]

P = number of days with at least 0.01 inch of precipitation in the annual averaging period

N = number of days in the annual averaging period (default = 365)

Notes: [a] CARB 2014, Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust (Revised and updated, April 2014)

Road Type	Silt Loading (g/m^2)	Average Weight (tons)	County	No. Days ppt > 0.01"	$PM_{2.5}$ Emission Factor (g/VMT)
Freeway	0.02	2.4	Santa Clara	64	0.00996

SFBAAB[a]

Road Type	Silt Loading (g/m^2)
Collector	0.032
Freeway	0.02
Local	0.32
Major	0.032

SFBAAB[a]

County	>0.01 inch precipitation
Alameda	61
Contra Costa	60
Marin	66
Napa	68
San Francisco	67
San Mateo	60
Santa Clara	64
Solano	54
Sonoma	69

Highway 101 Traffic Cancer Risk and PM2.5 Concentration Calculations

North Bayshore Precise Plan - Highway 101 DPM, PM2.5 & TOG TACs
CAL3QHCR Risk Modeling Parameters and Maximum Concentrations
On-Site Residential Receptors (1.5 meter receptor heights)

Receptor Information

Number of Receptors	880
Receptor Height =	1.5 meters
Receptor distances =	Variable

Meteorological Conditions

Moffett Field Hourly Data	1968-1972
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Meteorological Data Year	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
1968	0.00345	0.28664	1.43932
1969	0.00312	0.24963	1.25344
1970	0.00252	0.21496	1.07937
1971	0.00287	0.24723	1.24141
1972	0.00332	0.28061	1.40901
Maximum	**0.0035**	**0.2866**	**1.4393**
Average	**0.0031**	**0.2558**	**1.2845**

Meteorological Data Year	PM2.5 Concentrations (µg/m^3)		
	Total PM2.5	Road Dust PM2.5	Vehicle PM2.5
1968	0.9170	0.3071	0.60988
1969	0.7983	0.2672	0.53112
1970	0.6878	0.2304	0.45736
1971	0.7912	0.2652	0.52602
1972	0.8977	0.3007	0.59704
Maximum	**0.9170**	**0.3071**	**0.6099**
Average	**0.8184**	**0.2741**	**0.5443**

North Bayshore Precise Plan, Redwood City, CA - Highway 101 Traffic Maximum Cancer Risks
On-Site Residential Receptors (1.5 meter receptor heights)
30-Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)
FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates

Road Traffic Cancer Risk by Year - Maximum Impact Receptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
		Exposure		Age	Annual DPM Conc (ug/m3)						
Exposure Year	Year	Duration (years)	Age	Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
0	2018	0.25	-0.25 - 0*	10	0.0031	0.2558	1.2845	0.042	0.020	0.006	0.07
1	2018	1	1	10	0.0031	0.2558	1.2845	0.50	0.240	0.071	0.81
2	2019	1	2	10	0.0031	0.2558	1.2845	0.50	0.240	0.071	0.81
3	2020	1	3	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
4	2021	1	4	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
5	2022	1	5	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
6	2023	1	6	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
7	2024	1	7	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
8	2025	1	8	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
9	2026	1	9	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
10	2027	1	10	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
11	2028	1	11	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
12	2029	1	12	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
13	2030	1	13	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
14	2031	1	14	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
15	2032	1	15	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
16	2033	1	16	3	0.0031	0.2558	1.2845	0.08	0.038	0.011	0.13
17	2034	1	17	1	0.0031	0.2558	1.2845	0.01	0.0042	0.001	0.014
18	2035	1	18	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
19	2036	1	19	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
20	2037	1	20	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
21	2038	1	21	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
22	2039	1	22	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
23	2040	1	23	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
24	2041	1	24	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
25	2042	1	25	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
26	2043	1	26	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
27	2044	1	27	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
28	2045	1	28	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
29	2046	1	29	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
30	2047	1	30	1	0.0031	0.2558	1.2845	0.01	0.004	0.001	0.014
Total Increased Cancer Risk			**Total**					2.27	1.087	0.322	**3.7**

* Third trimester of pregnancy

North Bayshore Precise Plan - Highway 101 Traffic Cancer Risks by Receptor

	UTM-X	UTM-Y	Concentration			Total Cancer Risk (per million)			
Receptor	(m)	(m)	DPM	Exh TOG	Evap TOG	DPM	Exh TOG	Evap TOG	TOTAL
1	579327.31	4143065.25	0.0017	0.1277	0.6411	1.233	0.543	0.161	1.936
2	579336.75	4143092.50	0.00107	0.0802	0.4029	0.795	0.341	0.101	1.237
3	579346.19	4143120.00	0.00081	0.0604	0.3034	0.606	0.257	0.076	0.939
4	579355.62	4143147.50	0.00067	0.0494	0.2479	0.499	0.210	0.062	0.771
5	579376.00	4143008.25	0.00221	0.1769	0.8881	1.646	0.752	0.223	2.621
6	579385.44	4143035.50	0.00142	0.1104	0.5545	1.060	0.469	0.139	1.668
7	579394.88	4143063.00	0.00101	0.0764	0.3837	0.749	0.325	0.096	1.170
8	579404.31	4143090.50	0.00077	0.0579	0.2906	0.573	0.246	0.073	0.892
9	579413.75	4143118.00	0.00063	0.0471	0.2364	0.469	0.200	0.059	0.728
10	579423.19	4143145.25	0.00054	0.0401	0.2015	0.405	0.171	0.050	0.626
11	579424.69	4142951.00	0.00250	0.2035	1.0220	1.861	0.865	0.256	2.982
12	579432.62	4143172.75	0.00048	0.0351	0.1764	0.354	0.149	0.044	0.548
13	579434.12	4142978.50	0.00169	0.1337	0.6713	1.255	0.568	0.168	1.991
14	579443.56	4143006.00	0.00122	0.0950	0.4772	0.911	0.404	0.120	1.435
15	579451.50	4143227.75	0.00039	0.0284	0.1424	0.287	0.121	0.036	0.444
16	579453.00	4143033.50	0.00093	0.0713	0.3578	0.691	0.303	0.090	1.083
17	579462.50	4143061.00	0.00074	0.0559	0.2807	0.548	0.238	0.070	0.856
18	579471.94	4143088.25	0.00061	0.0458	0.2302	0.454	0.195	0.058	0.707
19	579473.44	4142894.00	0.00266	0.2184	1.0967	1.978	0.928	0.275	3.181
20	579481.38	4143115.75	0.00052	0.0389	0.1954	0.387	0.165	0.049	0.601
21	579482.88	4142921.50	0.00185	0.1483	0.7444	1.374	0.630	0.187	2.191
22	579492.31	4142949.00	0.00137	0.1089	0.5466	1.023	0.463	0.137	1.622
23	579500.25	4143170.75	0.00041	0.0303	0.1524	0.305	0.129	0.038	0.472
24	579501.75	4142976.50	0.00107	0.0835	0.4195	0.798	0.355	0.105	1.258
25	579511.19	4143003.75	0.00086	0.0662	0.3322	0.639	0.281	0.083	1.003
26	579519.12	4143225.50	0.00034	0.0252	0.1264	0.255	0.107	0.032	0.393
27	579520.62	4143031.25	0.00070	0.0537	0.2695	0.524	0.228	0.068	0.820
28	579522.12	4142837.00	0.00276	0.2283	1.1466	2.056	0.970	0.287	3.314
29	579530.06	4143058.75	0.00059	0.0447	0.2243	0.441	0.190	0.056	0.687
30	579531.56	4142864.50	0.00195	0.1580	0.7932	1.448	0.671	0.199	2.319
31	579538.00	4143280.50	0.00029	0.0216	0.1084	0.217	0.092	0.027	0.336
32	579541.00	4142892.00	0.00148	0.1183	0.5939	1.100	0.503	0.149	1.752
33	579548.94	4143113.50	0.00044	0.0333	0.1673	0.330	0.142	0.042	0.514
34	579550.44	4142919.50	0.00117	0.0926	0.4648	0.874	0.393	0.117	1.384
35	579559.88	4142946.75	0.00095	0.0745	0.3742	0.710	0.317	0.094	1.121
36	579567.81	4143168.50	0.00036	0.0268	0.1347	0.268	0.114	0.034	0.416
37	579569.31	4142974.25	0.00079	0.0611	0.3068	0.587	0.260	0.077	0.923
38	579570.81	4142780.00	0.00283	0.2352	1.1810	2.109	1.000	0.296	3.405
39	579578.75	4143001.75	0.00067	0.0510	0.2561	0.496	0.217	0.064	0.777
40	579580.25	4142807.50	0.00202	0.1649	0.8280	1.503	0.701	0.208	2.412
41	579586.69	4143223.50	0.00031	0.0227	0.1138	0.228	0.096	0.029	0.353
42	579589.75	4142835.00	0.00155	0.1251	0.6283	1.157	0.532	0.157	1.846
43	579597.62	4143056.50	0.00049	0.0374	0.1877	0.368	0.159	0.047	0.574
44	579599.19	4142862.25	0.00125	0.0994	0.4990	0.930	0.422	0.125	1.478
45	579605.56	4143278.25	0.00027	0.0197	0.0990	0.201	0.084	0.025	0.310
46	579608.62	4142889.75	0.00103	0.0809	0.4064	0.764	0.344	0.102	1.210
47	579616.50	4143111.50	0.00039	0.0292	0.1467	0.290	0.124	0.037	0.451
48	579618.06	4142917.25	0.00086	0.0671	0.3371	0.639	0.285	0.084	1.008
49	579619.56	4142723.00	0.00288	0.2402	1.2060	2.147	1.021	0.302	3.470
50	579624.50	4143333.25	0.00024	0.0175	0.0877	0.179	0.074	0.022	0.275
51	579627.50	4142944.75	0.00073	0.0565	0.2837	0.540	0.240	0.071	0.852
52	579629.00	4142750.50	0.00207	0.1700	0.8536	1.542	0.722	0.214	2.479
53	579635.44	4143166.25	0.00032	0.0241	0.1212	0.241	0.103	0.030	0.374
54	579638.44	4142778.00	0.00161	0.1302	0.6536	1.195	0.553	0.164	1.912
55	579643.38	4143388.00	0.00021	0.0157	0.0788	0.159	0.067	0.020	0.246
56	579646.38	4142999.50	0.00055	0.0417	0.2092	0.406	0.177	0.052	0.636
57	579647.88	4142805.25	0.00130	0.1044	0.5242	0.969	0.444	0.131	1.544
58	579654.31	4143221.25	0.00028	0.0207	0.1039	0.210	0.088	0.026	0.324
59	579657.31	4142832.75	0.00108	0.0860	0.4318	0.805	0.366	0.108	1.279
60	579665.25	4143054.50	0.00043	0.0322	0.1619	0.319	0.137	0.041	0.496
61	579666.75	4142860.25	0.00092	0.0721	0.3621	0.682	0.306	0.091	1.079
62	579668.25	4142666.00	0.00292	0.2441	1.2259	2.175	1.038	0.307	3.520
63	579673.19	4143276.00	0.00025	0.0182	0.0913	0.185	0.077	0.023	0.285
64	579676.19	4142887.75	0.00078	0.0613	0.3077	0.582	0.260	0.077	0.920
65	579677.69	4142693.50	0.00211	0.1739	0.8733	1.572	0.739	0.219	2.530
66	579684.12	4143109.25	0.00035	0.0261	0.1310	0.259	0.111	0.033	0.403
67	579687.12	4142720.75	0.00165	0.1344	0.6750	1.230	0.571	0.169	1.970
68	579692.06	4143331.00	0.00022	0.0162	0.0815	0.165	0.069	0.020	0.255
69	579695.06	4142942.50	0.00059	0.0458	0.2297	0.442	0.194	0.058	0.694

70	579696.56	4142748.25	0.00135	0.1086	0.5451	1.003	0.461	0.137	1.601
71	579703.00	4143164.25	0.00029	0.0219	0.1102	0.219	0.093	0.028	0.340
72	579706.00	4142775.75	0.00113	0.0901	0.4526	0.838	0.383	0.113	1.335
73	579713.94	4142997.50	0.00046	0.0355	0.1781	0.345	0.151	0.045	0.541
74	579715.44	4142803.25	0.00096	0.0762	0.3826	0.715	0.324	0.096	1.134
75	579717.06	4142609.00	0.00295	0.2474	1.2422	2.199	1.051	0.311	3.561
76	579721.88	4143219.00	0.00026	0.0191	0.0957	0.191	0.081	0.024	0.296
77	579724.88	4142830.50	0.00083	0.0653	0.3280	0.616	0.278	0.082	0.976
78	579726.44	4142636.50	0.00215	0.1771	0.8892	1.599	0.753	0.223	2.574
79	579729.81	4143440.75	0.00018	0.0134	0.0673	0.137	0.057	0.017	0.211
80	579732.81	4143052.25	0.00038	0.0285	0.1430	0.283	0.121	0.036	0.440
81	579735.88	4142663.75	0.00169	0.1378	0.6921	1.256	0.586	0.173	2.016
82	579740.75	4143274.00	0.00023	0.0169	0.0848	0.171	0.072	0.021	0.264
83	579743.75	4142885.50	0.00063	0.0494	0.2481	0.472	0.210	0.062	0.744
84	579745.31	4142691.25	0.00138	0.1120	0.5622	1.029	0.476	0.141	1.645
85	579751.69	4143107.25	0.00032	0.0236	0.1185	0.235	0.100	0.030	0.365
86	579754.75	4142718.75	0.00116	0.0935	0.4695	0.865	0.397	0.118	1.380
87	579762.69	4142940.50	0.00050	0.0386	0.1939	0.374	0.164	0.049	0.586
88	579764.19	4142746.25	0.00100	0.0796	0.3996	0.743	0.338	0.100	1.181
89	579765.88	4142552.00	0.00300	0.2514	1.2624	2.234	1.068	0.316	3.619
90	579770.56	4143162.00	0.00027	0.0202	0.1013	0.201	0.086	0.025	0.312
91	579773.62	4142773.50	0.00086	0.0687	0.3451	0.643	0.292	0.086	1.022
92	579775.31	4142579.50	0.00219	0.1809	0.9086	1.629	0.769	0.228	2.625
93	579781.56	4142995.25	0.00041	0.0310	0.1558	0.302	0.132	0.039	0.473
94	579784.75	4142607.00	0.00172	0.1410	0.7082	1.283	0.599	0.178	2.060
95	579789.50	4143217.00	0.00024	0.0177	0.0887	0.176	0.075	0.022	0.273
96	579792.50	4142828.50	0.00067	0.0527	0.2644	0.500	0.224	0.066	0.790
97	579794.12	4142634.25	0.00141	0.1150	0.5775	1.052	0.489	0.145	1.686
98	579794.75	4143364.75	0.00019	0.0139	0.0700	0.140	0.059	0.018	0.217
99	579800.44	4143050.25	0.00034	0.0256	0.1283	0.253	0.109	0.032	0.394
100	579803.56	4142661.75	0.00120	0.0964	0.4843	0.890	0.410	0.121	1.421
101	579811.38	4142883.25	0.00054	0.0415	0.2084	0.400	0.176	0.052	0.629
102	579812.94	4142689.25	0.00103	0.0825	0.4144	0.767	0.351	0.104	1.221
103	579814.75	4142495.25	0.00306	0.2558	1.2845	2.275	1.087	0.322	3.684
104	579819.31	4143105.00	0.00029	0.0216	0.1085	0.213	0.092	0.027	0.332
105	579822.38	4142716.50	0.00090	0.0716	0.3597	0.670	0.304	0.090	1.064
106	579824.19	4142522.50	0.00223	0.1847	0.9273	1.661	0.785	0.232	2.679
107	579830.25	4142938.25	0.00044	0.0335	0.1681	0.325	0.142	0.042	0.509
108	579832.50	4143474.50	0.00016	0.0118	0.0591	0.118	0.050	0.015	0.182
109	579833.56	4142550.00	0.00176	0.1442	0.7239	1.308	0.613	0.181	2.103
110	579838.19	4143160.00	0.00025	0.0187	0.0939	0.186	0.079	0.024	0.289
111	579841.19	4142771.50	0.00070	0.0555	0.2784	0.524	0.236	0.070	0.829
112	579843.00	4142577.50	0.00145	0.1180	0.5923	1.078	0.501	0.148	1.727
113	579849.12	4142993.00	0.00037	0.0276	0.1387	0.272	0.117	0.035	0.425
114	579852.38	4142604.75	0.00123	0.0994	0.4992	0.915	0.423	0.125	1.463
115	579859.69	4143288.75	0.00020	0.0146	0.0734	0.147	0.062	0.018	0.228
116	579860.06	4142826.25	0.00057	0.0442	0.2218	0.421	0.188	0.056	0.665
117	579861.81	4142632.25	0.00106	0.0853	0.4283	0.790	0.363	0.107	1.260
118	579866.62	4142441.00	0.00301	0.2511	1.2610	2.240	1.067	0.316	3.624
119	579868.00	4143048.00	0.00031	0.0232	0.1166	0.228	0.099	0.029	0.356
120	579870.25	4143584.25	0.00014	0.0102	0.0510	0.103	0.043	0.013	0.159
121	579871.25	4142659.75	0.00093	0.0742	0.3726	0.691	0.315	0.093	1.100
122	579875.38	4142468.00	0.00223	0.1838	0.9230	1.657	0.781	0.231	2.669
123	579878.94	4142881.25	0.00047	0.0358	0.1800	0.347	0.152	0.045	0.544
124	579884.12	4142494.75	0.00178	0.1459	0.7327	1.328	0.620	0.184	2.132
125	579886.88	4143103.00	0.00027	0.0199	0.1000	0.198	0.085	0.025	0.308
126	579890.06	4142714.50	0.00073	0.0580	0.2911	0.545	0.246	0.073	0.864
127	579892.88	4142521.50	0.00148	0.1207	0.6060	1.102	0.513	0.152	1.766
128	579897.44	4143398.50	0.00017	0.0122	0.0613	0.124	0.052	0.015	0.191
129	579897.81	4142936.00	0.00039	0.0296	0.1488	0.290	0.126	0.037	0.454
130	579901.62	4142548.25	0.00126	0.1024	0.5141	0.941	0.435	0.129	1.505
131	579908.88	4142769.25	0.00059	0.0466	0.2338	0.442	0.198	0.059	0.699
132	579910.62	4142575.25	0.00110	0.0883	0.4435	0.816	0.375	0.111	1.302
133	579916.69	4142991.00	0.00033	0.0249	0.1251	0.246	0.106	0.031	0.383
134	579919.56	4142388.00	0.00302	0.2509	1.2599	2.246	1.066	0.316	3.628
135	579920.06	4142602.75	0.00096	0.0771	0.3870	0.715	0.328	0.097	1.139
136	579924.62	4143212.75	0.00021	0.0155	0.0778	0.155	0.066	0.019	0.240
137	579927.69	4142824.25	0.00049	0.0381	0.1911	0.365	0.162	0.048	0.574
138	579927.88	4142414.25	0.00225	0.1850	0.9292	1.673	0.786	0.233	2.693
139	579935.25	4143508.25	0.00014	0.0105	0.0525	0.106	0.044	0.013	0.163
140	579935.56	4143045.75	0.00028	0.0213	0.1069	0.210	0.090	0.027	0.327
141	579936.56	4142441.00	0.00179	0.1464	0.7350	1.334	0.622	0.184	2.140
142	579938.88	4142657.50	0.00076	0.0606	0.3041	0.567	0.257	0.076	0.901
143	579945.31	4142468.00	0.00148	0.1208	0.6067	1.105	0.514	0.152	1.770
144	579946.56	4142879.00	0.00041	0.0316	0.1586	0.305	0.134	0.040	0.479
145	579954.06	4142494.75	0.00127	0.1027	0.5157	0.945	0.436	0.129	1.511
146	579957.75	4142712.50	0.00062	0.0488	0.2451	0.461	0.207	0.061	0.730
147	579962.44	4143322.50	0.00017	0.0127	0.0639	0.127	0.054	0.016	0.197
148	579962.81	4142521.50	0.00111	0.0891	0.4473	0.823	0.379	0.112	1.314
149	579965.44	4142934.00	0.00035	0.0266	0.1336	0.259	0.113	0.033	0.406

150	579971.56	4142548.25	0.00098	0.0784	0.3937	0.728	0.333	0.099	1.160
151	579973.00	4143618.00	0.00013	0.0091	0.0459	0.094	0.039	0.011	0.144
152	579974.56	4142337.00	0.00298	0.2466	1.2382	2.215	1.048	0.310	3.573
153	579976.56	4142767.25	0.00051	0.0401	0.2012	0.383	0.170	0.050	0.603
154	579982.88	4142363.25	0.00221	0.1816	0.9119	1.645	0.772	0.229	2.645
155	579984.31	4142988.75	0.00030	0.0227	0.1142	0.223	0.097	0.029	0.349
156	579989.06	4142602.00	0.00079	0.0624	0.3132	0.585	0.265	0.079	0.929
157	579989.56	4143136.50	0.00022	0.0166	0.0834	0.165	0.071	0.021	0.257
158	579991.19	4142389.75	0.00177	0.1445	0.7254	1.319	0.614	0.182	2.115
159	579995.38	4142822.25	0.00043	0.0334	0.1677	0.323	0.142	0.042	0.507
160	579999.50	4142416.00	0.00148	0.1204	0.6044	1.105	0.512	0.151	1.768
161	580000.19	4143432.25	0.00015	0.0108	0.0543	0.110	0.046	0.014	0.170
162	580006.56	4142655.50	0.00064	0.0509	0.2558	0.479	0.217	0.064	0.760
163	580007.88	4142442.50	0.00127	0.1027	0.5159	0.945	0.437	0.129	1.511
164	580014.19	4142877.00	0.00037	0.0282	0.1418	0.274	0.120	0.036	0.429
165	580016.19	4142468.75	0.00111	0.0894	0.4492	0.826	0.380	0.113	1.319
166	580024.50	4142495.25	0.00098	0.0789	0.3963	0.732	0.335	0.099	1.167
167	580025.38	4142710.50	0.00054	0.0421	0.2112	0.400	0.179	0.053	0.632
168	580027.38	4143246.25	0.00018	0.0134	0.0672	0.134	0.057	0.017	0.208
169	580030.31	4142286.75	0.00295	0.2439	1.2247	2.196	1.037	0.307	3.539
170	580033.00	4142931.75	0.00032	0.0242	0.1214	0.235	0.103	0.030	0.368
171	580037.94	4143542.00	0.00013	0.0094	0.0471	0.095	0.040	0.012	0.147
172	580038.50	4142313.00	0.00219	0.1797	0.9025	1.633	0.764	0.226	2.623
173	580041.50	4142548.25	0.00079	0.0633	0.3176	0.591	0.269	0.080	0.939
174	580044.25	4142765.25	0.00045	0.0352	0.1769	0.338	0.150	0.044	0.532
175	580046.69	4142339.25	0.00176	0.1431	0.7184	1.308	0.608	0.180	2.097
176	580054.50	4143060.50	0.00024	0.0180	0.0902	0.176	0.076	0.023	0.275
177	580054.88	4142365.50	0.00147	0.1192	0.5983	1.093	0.506	0.150	1.749
178	580059.00	4142602.00	0.00066	0.0520	0.2613	0.490	0.221	0.065	0.776
179	580063.00	4142391.75	0.00126	0.1021	0.5125	0.941	0.434	0.128	1.503
180	580063.06	4142820.00	0.00039	0.0299	0.1499	0.290	0.127	0.038	0.455
181	580065.12	4143356.25	0.00015	0.0112	0.0564	0.112	0.048	0.014	0.174
182	580071.19	4142417.75	0.00111	0.0891	0.4476	0.823	0.379	0.112	1.314
183	580076.50	4142655.50	0.00056	0.0435	0.2183	0.414	0.185	0.055	0.653
184	580079.50	4142444.25	0.00098	0.0788	0.3957	0.731	0.335	0.099	1.165
185	580081.88	4142875.00	0.00033	0.0256	0.1284	0.247	0.109	0.032	0.388
186	580086.25	4142236.75	0.00295	0.2439	1.2245	2.199	1.036	0.307	3.542
187	580092.31	4143170.25	0.00019	0.0142	0.0714	0.141	0.060	0.018	0.220
188	580094.00	4142709.25	0.00047	0.0368	0.1845	0.351	0.156	0.046	0.554
189	580094.44	4142263.00	0.00219	0.1794	0.9009	1.631	0.763	0.226	2.620
190	580096.12	4142497.00	0.00080	0.0636	0.3191	0.594	0.270	0.080	0.944
191	580102.56	4142289.25	0.00176	0.1428	0.7171	1.307	0.607	0.180	2.094
192	580102.88	4143466.00	0.00013	0.0097	0.0486	0.097	0.041	0.012	0.150
193	580110.75	4142315.50	0.00147	0.1189	0.5970	1.091	0.505	0.150	1.746
194	580111.88	4142763.25	0.00041	0.0314	0.1575	0.304	0.133	0.039	0.476
195	580112.81	4142549.75	0.00066	0.0526	0.2643	0.494	0.224	0.066	0.784
196	580118.94	4142341.75	0.00126	0.1017	0.5109	0.938	0.432	0.128	1.498
197	580119.50	4142984.50	0.00025	0.0194	0.0973	0.189	0.082	0.024	0.296
198	580127.12	4142368.00	0.00110	0.0888	0.4460	0.822	0.377	0.112	1.311
199	580129.44	4142602.50	0.00056	0.0443	0.2226	0.420	0.188	0.056	0.664
200	580130.06	4143280.00	0.00016	0.0118	0.0590	0.118	0.050	0.015	0.182
201	580130.75	4142818.00	0.00035	0.0270	0.1354	0.262	0.115	0.034	0.411
202	580135.31	4142394.00	0.00098	0.0787	0.3953	0.731	0.335	0.099	1.165
203	580142.12	4142186.75	0.00295	0.2437	1.2239	2.197	1.036	0.307	3.540
204	580146.44	4142655.50	0.00048	0.0378	0.1897	0.359	0.161	0.048	0.567
205	580150.31	4142213.00	0.00219	0.1792	0.8999	1.630	0.762	0.226	2.617
206	580151.69	4142446.50	0.00080	0.0636	0.3195	0.594	0.270	0.080	0.944
207	580157.25	4143094.25	0.00020	0.0152	0.0765	0.150	0.065	0.019	0.234
208	580158.50	4142239.25	0.00175	0.1425	0.7156	1.304	0.606	0.179	2.089
209	580163.94	4142709.25	0.00042	0.0324	0.1628	0.311	0.138	0.041	0.490
210	580166.69	4142265.50	0.00146	0.1185	0.5952	1.090	0.504	0.149	1.743
211	580167.81	4143389.75	0.00013	0.0100	0.0504	0.100	0.043	0.013	0.155
212	580168.06	4142499.00	0.00067	0.0529	0.2656	0.497	0.225	0.067	0.789
213	580174.88	4142291.75	0.00126	0.1016	0.5099	0.936	0.432	0.128	1.496
214	580181.44	4142762.75	0.00036	0.0281	0.1411	0.271	0.119	0.035	0.426
215	580183.06	4142318.00	0.00110	0.0887	0.4452	0.819	0.377	0.112	1.307
216	580184.44	4142551.50	0.00057	0.0448	0.2250	0.423	0.190	0.056	0.670
217	580184.62	4142908.75	0.00027	0.0208	0.1046	0.204	0.089	0.026	0.319
218	580191.25	4142344.00	0.00098	0.0786	0.3948	0.729	0.334	0.099	1.162
219	580195.00	4143204.00	0.00017	0.0124	0.0623	0.124	0.053	0.016	0.192
220	580198.06	4142136.75	0.00295	0.2439	1.2247	2.197	1.037	0.307	3.541
221	580201.06	4142604.25	0.00049	0.0384	0.1928	0.365	0.163	0.048	0.576
222	580206.25	4142163.00	0.00219	0.1793	0.9004	1.630	0.762	0.226	2.618
223	580207.62	4142396.50	0.00080	0.0636	0.3196	0.594	0.270	0.080	0.945
224	580214.44	4142189.25	0.00176	0.1427	0.7166	1.307	0.607	0.180	2.093
225	580217.75	4142657.00	0.00043	0.0332	0.1666	0.317	0.141	0.042	0.500
226	580222.31	4143018.25	0.00022	0.0163	0.0820	0.161	0.069	0.021	0.251
227	580222.62	4142215.50	0.00147	0.1188	0.5965	1.091	0.505	0.150	1.746
228	580223.94	4142449.00	0.00067	0.0531	0.2664	0.497	0.226	0.067	0.789
229	580230.81	4142241.75	0.00126	0.1016	0.5104	0.938	0.432	0.128	1.498

230	580232.75	4143313.75	0.00014	0.0105	0.0525	0.104	0.044	0.013	0.162
231	580234.38	4142709.75	0.00037	0.0289	0.1452	0.278	0.123	0.036	0.438
232	580239.00	4142268.00	0.00110	0.0887	0.4454	0.820	0.377	0.112	1.309
233	580240.31	4142501.50	0.00057	0.0451	0.2264	0.424	0.192	0.057	0.673
234	580247.19	4142294.25	0.00098	0.0786	0.3945	0.729	0.334	0.099	1.162
235	580251.38	4142834.25	0.00029	0.0221	0.1111	0.216	0.094	0.028	0.338
236	580254.00	4142086.75	0.00296	0.2443	1.2268	2.203	1.038	0.308	3.549
237	580256.69	4142553.75	0.00049	0.0388	0.1949	0.368	0.165	0.049	0.582
238	580259.94	4143128.00	0.00018	0.0132	0.0662	0.132	0.056	0.017	0.205
239	580262.19	4142113.00	0.00220	0.1798	0.9027	1.637	0.764	0.226	2.628
240	580263.50	4142346.50	0.00080	0.0638	0.3204	0.595	0.271	0.080	0.947
241	580270.38	4142139.25	0.00176	0.1431	0.7187	1.310	0.608	0.180	2.098
242	580273.06	4142606.25	0.00043	0.0337	0.1693	0.323	0.143	0.042	0.509
243	580278.56	4142165.50	0.00147	0.1192	0.5983	1.096	0.506	0.150	1.752
244	580279.88	4142399.00	0.00067	0.0533	0.2676	0.500	0.226	0.067	0.794
245	580286.75	4142191.75	0.00126	0.1020	0.5123	0.941	0.434	0.128	1.503
246	580287.44	4142942.50	0.00023	0.0174	0.0876	0.171	0.074	0.022	0.267
247	580289.44	4142658.75	0.00038	0.0295	0.1482	0.283	0.125	0.037	0.445
248	580294.88	4142218.00	0.00111	0.0891	0.4473	0.823	0.379	0.112	1.314
249	580296.25	4142451.50	0.00057	0.0453	0.2275	0.427	0.193	0.057	0.677
250	580297.69	4143237.75	0.00015	0.0110	0.0551	0.110	0.047	0.014	0.171
251	580303.06	4142244.25	0.00098	0.0789	0.3963	0.732	0.335	0.099	1.167
252	580309.94	4142037.00	0.00295	0.2440	1.2253	2.199	1.037	0.307	3.543
253	580312.62	4142504.00	0.00050	0.0391	0.1962	0.371	0.166	0.049	0.586
254	580318.06	4142063.00	0.00220	0.1801	0.9046	1.639	0.766	0.227	2.631
255	580319.44	4142296.50	0.00080	0.0640	0.3214	0.595	0.272	0.081	0.948
256	580322.69	4142764.25	0.00030	0.0230	0.1156	0.222	0.098	0.029	0.349
257	580325.06	4143052.25	0.00019	0.0140	0.0705	0.140	0.060	0.018	0.217
258	580326.25	4142089.25	0.00176	0.1435	0.7203	1.311	0.610	0.181	2.102
259	580329.00	4142556.25	0.00044	0.0341	0.1712	0.325	0.145	0.043	0.512
260	580334.44	4142115.50	0.00147	0.1195	0.6001	1.097	0.508	0.150	1.755
261	580335.81	4142349.00	0.00067	0.0535	0.2684	0.500	0.227	0.067	0.795
262	580342.62	4142141.75	0.00127	0.1024	0.5142	0.944	0.435	0.129	1.508
263	580345.31	4142608.75	0.00039	0.0299	0.1504	0.287	0.127	0.038	0.452
264	580350.81	4142168.00	0.00111	0.0895	0.4492	0.826	0.380	0.113	1.319
265	580352.19	4142401.50	0.00058	0.0456	0.2288	0.429	0.194	0.057	0.680
266	580356.31	4142870.00	0.00024	0.0184	0.0922	0.180	0.078	0.023	0.281
267	580359.00	4142194.25	0.00099	0.0793	0.3980	0.734	0.337	0.100	1.170
268	580362.75	4143161.75	0.00015	0.0116	0.0581	0.115	0.049	0.015	0.178
269	580365.81	4141987.00	0.00296	0.2445	1.2278	2.203	1.039	0.308	3.550
270	580368.56	4142454.00	0.00050	0.0394	0.1978	0.372	0.167	0.050	0.589
271	580374.00	4142013.25	0.00220	0.1802	0.9047	1.639	0.766	0.227	2.631
272	580375.38	4142246.50	0.00080	0.0643	0.3229	0.598	0.273	0.081	0.953
273	580382.19	4142039.25	0.00177	0.1438	0.7221	1.316	0.611	0.181	2.108
274	580384.88	4142506.25	0.00044	0.0344	0.1727	0.326	0.146	0.043	0.516
275	580390.38	4142065.50	0.00148	0.1198	0.6017	1.100	0.509	0.151	1.760
276	580391.31	4142977.25	0.00019	0.0149	0.0747	0.144	0.063	0.019	0.226
277	580391.75	4142299.00	0.00068	0.0537	0.2698	0.503	0.228	0.068	0.799
278	580396.69	4142697.00	0.00031	0.0237	0.1189	0.229	0.101	0.030	0.360
279	580398.56	4142091.75	0.00127	0.1027	0.5156	0.945	0.436	0.129	1.511
280	580401.25	4142558.75	0.00039	0.0303	0.1521	0.289	0.129	0.038	0.456
281	580406.75	4142118.00	0.00112	0.0897	0.4506	0.831	0.381	0.113	1.325
282	580408.06	4142351.50	0.00058	0.0458	0.2302	0.432	0.195	0.058	0.684
283	580414.94	4142144.25	0.00099	0.0796	0.3996	0.737	0.338	0.100	1.175
284	580421.75	4141937.00	0.00296	0.2449	1.2295	2.206	1.041	0.308	3.555
285	580424.44	4142404.00	0.00050	0.0397	0.1993	0.374	0.169	0.050	0.592
286	580427.88	4143086.00	0.00016	0.0122	0.0615	0.122	0.052	0.015	0.189
287	580429.44	4142801.75	0.00025	0.0190	0.0955	0.185	0.081	0.024	0.289
288	580429.94	4141963.25	0.00220	0.1805	0.9063	1.640	0.767	0.227	2.635
289	580431.31	4142196.75	0.00081	0.0646	0.3245	0.601	0.275	0.081	0.957
290	580438.12	4141989.25	0.00177	0.1441	0.7237	1.317	0.613	0.181	2.111
291	580440.81	4142456.25	0.00044	0.0347	0.1744	0.329	0.148	0.044	0.520
292	580446.31	4142015.50	0.00148	0.1201	0.6032	1.103	0.511	0.151	1.765
293	580447.62	4142249.00	0.00068	0.0541	0.2716	0.505	0.230	0.068	0.803
294	580454.50	4142041.75	0.00128	0.1030	0.5173	0.950	0.438	0.130	1.517
295	580457.19	4142508.75	0.00039	0.0306	0.1538	0.292	0.130	0.039	0.461
296	580462.62	4142907.25	0.00020	0.0155	0.0780	0.152	0.066	0.020	0.237
297	580462.69	4142068.00	0.00112	0.0901	0.4523	0.832	0.383	0.113	1.328
298	580464.00	4142301.50	0.00058	0.0461	0.2317	0.433	0.196	0.058	0.687
299	580470.88	4142094.25	0.00100	0.0799	0.4013	0.741	0.340	0.101	1.182
300	580471.25	4142630.25	0.00031	0.0242	0.1214	0.232	0.103	0.030	0.365
301	580477.69	4141887.00	0.00297	0.2452	1.2312	2.208	1.042	0.309	3.558
302	580480.38	4142354.00	0.00051	0.0400	0.2006	0.378	0.170	0.050	0.598
303	580485.88	4141913.25	0.00221	0.1808	0.9081	1.645	0.769	0.228	2.641
304	580487.19	4142146.75	0.00081	0.0650	0.3262	0.604	0.276	0.082	0.962
305	580494.06	4141939.50	0.00177	0.1442	0.7243	1.317	0.613	0.182	2.112
306	580496.25	4143013.00	0.00017	0.0129	0.0646	0.127	0.055	0.016	0.197
307	580496.75	4142406.50	0.00045	0.0350	0.1758	0.332	0.149	0.044	0.525
308	580502.25	4141965.50	0.00148	0.1204	0.6047	1.105	0.512	0.152	1.768
309	580503.56	4142199.00	0.00068	0.0544	0.2732	0.509	0.231	0.068	0.809

310	580504.00	4142735.25	0.00025	0.0195	0.0980	0.189	0.083	0.025	0.297
311	580510.44	4141991.75	0.00128	0.1032	0.5184	0.950	0.439	0.130	1.518
312	580513.12	4142458.75	0.00040	0.0310	0.1554	0.295	0.132	0.039	0.465
313	580518.56	4142018.00	0.00112	0.0903	0.4532	0.832	0.384	0.114	1.329
314	580519.94	4142251.50	0.00059	0.0465	0.2334	0.436	0.198	0.058	0.692
315	580526.75	4142044.25	0.00100	0.0801	0.4021	0.741	0.340	0.101	1.182
316	580533.62	4141837.00	0.00297	0.2454	1.2321	2.209	1.043	0.309	3.561
317	580536.31	4142304.00	0.00051	0.0403	0.2023	0.380	0.171	0.051	0.6015
318	580536.75	4142840.00	0.00021	0.0160	0.0804	0.158	0.068	0.020	0.246
319	580541.75	4141863.25	0.00221	0.1812	0.9097	1.645	0.770	0.228	2.643
320	580543.12	4142096.75	0.00081	0.0652	0.3272	0.606	0.277	0.082	0.965
321	580545.81	4142563.75	0.00032	0.0246	0.1237	0.235	0.105	0.031	0.371
322	580549.94	4141889.50	0.00177	0.1446	0.7261	1.320	0.615	0.182	2.117
323	580552.69	4142356.50	0.00045	0.0353	0.1772	0.333	0.150	0.044	0.528
324	580558.12	4141915.75	0.00149	0.1207	0.6059	1.106	0.513	0.152	1.771
325	580559.50	4142149.00	0.00069	0.0547	0.2745	0.511	0.232	0.069	0.812
326	580566.31	4141941.75	0.00128	0.1036	0.5203	0.953	0.440	0.130	1.524
327	580569.00	4142408.75	0.00040	0.0312	0.1568	0.296	0.133	0.039	0.468
328	580569.44	4142945.00	0.00017	0.0133	0.0669	0.130	0.057	0.017	0.203
329	580574.50	4141968.00	0.00112	0.0906	0.4550	0.837	0.385	0.114	1.336
330	580575.88	4142201.50	0.00059	0.0467	0.2347	0.438	0.199	0.059	0.695
331	580578.56	4142668.50	0.00026	0.0200	0.1003	0.195	0.085	0.025	0.305
332	580582.69	4141994.25	0.00100	0.0804	0.4036	0.741	0.342	0.101	1.184
333	580589.50	4141787.00	0.00297	0.2459	1.2346	2.212	1.045	0.309	3.566
334	580592.25	4142254.00	0.00051	0.0405	0.2036	0.381	0.172	0.051	0.604
335	580597.69	4141813.25	0.00222	0.1815	0.9113	1.649	0.771	0.228	2.649
336	580599.06	4142046.75	0.00082	0.0654	0.3282	0.607	0.278	0.082	0.967
337	580605.88	4141839.50	0.00177	0.1448	0.7273	1.320	0.616	0.182	2.118
338	580608.56	4142306.50	0.00045	0.0356	0.1787	0.336	0.151	0.045	0.532
339	580611.31	4142773.50	0.00021	0.0164	0.0825	0.158	0.070	0.021	0.248
340	580614.06	4141865.75	0.00149	0.1208	0.6068	1.108	0.514	0.152	1.773
341	580615.44	4142099.25	0.00069	0.0548	0.2753	0.511	0.233	0.069	0.813
342	580620.38	4142497.00	0.00032	0.0250	0.1258	0.240	0.106	0.032	0.378
343	580622.25	4141891.75	0.00128	0.1038	0.5213	0.953	0.441	0.131	1.525
344	580624.94	4142358.75	0.00040	0.0315	0.1583	0.299	0.134	0.040	0.473
345	580630.44	4141918.00	0.00112	0.0909	0.4562	0.837	0.386	0.114	1.337
346	580631.75	4142151.50	0.00059	0.0470	0.2359	0.439	0.200	0.059	0.698
347	580638.62	4141944.25	0.00100	0.0807	0.4052	0.747	0.343	0.102	1.192
348	580644.00	4142878.25	0.00018	0.0137	0.0688	0.134	0.058	0.017	0.209
349	580645.44	4141737.00	0.00298	0.2462	1.2364	2.215	1.046	0.310	3.571
350	580648.12	4142204.00	0.00052	0.0408	0.2049	0.384	0.173	0.051	0.609
351	580653.12	4142602.00	0.00026	0.0204	0.1024	0.196	0.087	0.026	0.309
352	580653.62	4141763.25	0.00221	0.1816	0.9117	1.648	0.772	0.229	2.648
353	580655.00	4141996.75	0.00082	0.0657	0.3298	0.610	0.279	0.083	0.972
354	580661.81	4141789.50	0.00177	0.1449	0.7274	1.320	0.616	0.182	2.118
355	580664.50	4142256.50	0.00045	0.0358	0.1799	0.338	0.152	0.045	0.535
356	580670.00	4141815.75	0.00149	0.1210	0.6075	1.108	0.514	0.152	1.774
357	580671.31	4142049.25	0.00069	0.0551	0.2767	0.512	0.234	0.069	0.816
358	580678.19	4141842.00	0.00128	0.1039	0.5218	0.954	0.442	0.131	1.527
359	580680.88	4142309.00	0.00041	0.0318	0.1595	0.302	0.135	0.040	0.477
360	580685.88	4142706.75	0.00022	0.0168	0.0845	0.162	0.072	0.021	0.255
361	580686.38	4141868.00	0.00113	0.0911	0.4573	0.838	0.387	0.115	1.340
362	580687.69	4142101.50	0.00059	0.0472	0.2371	0.441	0.201	0.059	0.701
363	580694.56	4141894.25	0.00100	0.0809	0.4062	0.747	0.344	0.102	1.193
364	580694.94	4142430.50	0.00033	0.0254	0.1276	0.243	0.108	0.032	0.383
365	580701.38	4141687.00	0.00297	0.2461	1.2359	2.214	1.046	0.310	3.569
366	580704.06	4142154.00	0.00052	0.0410	0.2060	0.386	0.174	0.052	0.612
367	580709.56	4141713.25	0.00222	0.1818	0.9127	1.649	0.773	0.229	2.651
368	580710.88	4141946.75	0.00082	0.0660	0.3312	0.610	0.280	0.083	0.974
369	580717.75	4141739.50	0.00178	0.1453	0.7295	1.325	0.617	0.183	2.125
370	580718.56	4142811.75	0.00019	0.0141	0.0706	0.138	0.060	0.018	0.216
371	580720.44	4142206.50	0.00046	0.0361	0.1811	0.339	0.153	0.045	0.538
372	580725.94	4141765.75	0.00149	0.1213	0.6091	1.110	0.516	0.153	1.779
373	580727.25	4141999.25	0.00069	0.0554	0.2781	0.517	0.235	0.070	0.822
374	580727.69	4142535.25	0.00027	0.0208	0.1042	0.199	0.088	0.026	0.314
375	580734.06	4141792.00	0.00128	0.1041	0.5226	0.956	0.442	0.131	1.529
376	580736.81	4142259.00	0.00041	0.0320	0.1608	0.302	0.136	0.040	0.479
377	580742.25	4141818.25	0.00113	0.0911	0.4574	0.838	0.387	0.115	1.340
378	580743.62	4142051.75	0.00060	0.0475	0.2384	0.444	0.202	0.060	0.705
379	580750.44	4141844.25	0.00100	0.0810	0.4068	0.747	0.344	0.102	1.194
380	580757.31	4141637.00	0.00297	0.2462	1.2364	2.214	1.046	0.310	3.570
381	580760.00	4142104.00	0.00052	0.0413	0.2074	0.387	0.176	0.052	0.615
382	580760.44	4142640.25	0.00022	0.0172	0.0864	0.165	0.073	0.022	0.260
383	580765.50	4141663.25	0.00222	0.1819	0.9132	1.649	0.773	0.229	2.651
384	580766.81	4141896.75	0.00082	0.0661	0.3320	0.610	0.281	0.083	0.975
385	580769.50	4142363.75	0.00033	0.0258	0.1293	0.246	0.109	0.032	0.388
386	580773.62	4141689.50	0.00178	0.1453	0.7298	1.325	0.618	0.183	2.125
387	580776.38	4142156.50	0.00046	0.0363	0.1824	0.341	0.154	0.046	0.541
388	580781.81	4141715.75	0.00149	0.1214	0.6097	1.110	0.516	0.153	1.779
389	580783.19	4141949.25	0.00069	0.0556	0.2792	0.517	0.236	0.070	0.823

390	580790.00	4141742.00	0.00128	0.1043	0.5238	0.956	0.443	0.131	1.530
391	580792.75	4142209.00	0.00041	0.0323	0.1620	0.302	0.137	0.041	0.480
392	580793.12	4142745.00	0.00019	0.0144	0.0723	0.140	0.061	0.018	0.219
393	580798.19	4141768.25	0.00113	0.0914	0.4589	0.840	0.388	0.115	1.343
394	580799.56	4142001.75	0.00060	0.0477	0.2396	0.445	0.203	0.060	0.708
395	580802.25	4142468.75	0.00027	0.0211	0.1060	0.202	0.090	0.027	0.319
396	580806.38	4141794.25	0.00100	0.0813	0.4081	0.747	0.345	0.102	1.195
397	580813.25	4141587.25	0.00297	0.2463	1.2368	2.214	1.047	0.310	3.570
398	580815.94	4142054.00	0.00052	0.0416	0.2088	0.387	0.177	0.052	0.616
399	580821.44	4141613.25	0.00222	0.1822	0.9150	1.652	0.774	0.229	2.656
400	580822.75	4141846.75	0.00082	0.0663	0.3329	0.612	0.282	0.083	0.977
401	580829.62	4141639.50	0.00178	0.1456	0.7311	1.326	0.619	0.183	2.128
402	580832.25	4142106.50	0.00046	0.0366	0.1839	0.344	0.156	0.046	0.546
403	580835.00	4142573.50	0.00023	0.0175	0.0881	0.170	0.075	0.022	0.266
404	580837.75	4141665.75	0.00149	0.1217	0.6109	1.110	0.517	0.153	1.781
405	580839.12	4141899.25	0.00070	0.0558	0.2801	0.518	0.237	0.070	0.825
406	580844.06	4142297.25	0.00033	0.0261	0.1310	0.247	0.111	0.033	0.391
407	580845.94	4141692.00	0.00129	0.1045	0.5246	0.959	0.444	0.131	1.534
408	580848.62	4142159.00	0.00041	0.0326	0.1635	0.307	0.138	0.041	0.486
409	580854.12	4141718.25	0.00113	0.0915	0.4595	0.841	0.389	0.115	1.345
410	580855.50	4141951.75	0.00060	0.0480	0.2409	0.448	0.204	0.060	0.712
411	580862.31	4141744.50	0.00101	0.0814	0.4085	0.749	0.346	0.102	1.197
412	580867.69	4142678.25	0.00019	0.0147	0.0739	0.143	0.063	0.019	0.224
413	580869.19	4141537.25	0.00298	0.2470	1.2403	2.221	1.050	0.311	3.582
414	580871.81	4142004.00	0.00053	0.0419	0.2103	0.393	0.178	0.053	0.624
415	580876.81	4142402.00	0.00027	0.0215	0.1078	0.204	0.091	0.027	0.322
416	580877.38	4141563.50	0.00222	0.1822	0.9151	1.651	0.775	0.229	2.655
417	580878.69	4141796.75	0.00083	0.0665	0.3339	0.615	0.283	0.084	0.981
418	580885.56	4141589.50	0.00178	0.1454	0.7303	1.323	0.618	0.183	2.125
419	580888.19	4142056.50	0.00047	0.0369	0.1854	0.347	0.157	0.046	0.550
420	580893.75	4141615.75	0.00149	0.1215	0.6099	1.110	0.516	0.153	1.780
421	580895.00	4141849.25	0.00070	0.0560	0.2812	0.520	0.238	0.070	0.828
422	580901.94	4141642.00	0.00129	0.1045	0.5249	0.959	0.444	0.132	1.534
423	580904.56	4142109.00	0.00042	0.0328	0.1649	0.310	0.140	0.041	0.491
424	580909.56	4142506.75	0.00023	0.0179	0.0898	0.173	0.076	0.023	0.271
425	580910.06	4141668.25	0.00113	0.0917	0.4604	0.841	0.390	0.115	1.346
426	580911.38	4141901.75	0.00060	0.0482	0.2419	0.448	0.205	0.061	0.713
427	580918.25	4141694.50	0.00101	0.0816	0.4096	0.750	0.347	0.103	1.200
428	580918.62	4142230.50	0.00034	0.0265	0.1329	0.252	0.112	0.033	0.397
429	580925.12	4141487.25	0.00298	0.2472	1.2413	2.219	1.051	0.311	3.581
430	580927.75	4141954.25	0.00053	0.0421	0.2112	0.393	0.179	0.053	0.625
431	580933.31	4141513.50	0.00222	0.1825	0.9162	1.651	0.775	0.230	2.656
432	580934.62	4141747.00	0.00083	0.0667	0.3348	0.616	0.283	0.084	0.984
433	580941.50	4141539.75	0.00178	0.1458	0.7320	1.326	0.620	0.183	2.129
434	580942.25	4142611.75	0.00019	0.0150	0.0755	0.144	0.064	0.019	0.227
435	580944.12	4142006.50	0.00047	0.0372	0.1866	0.348	0.158	0.047	0.553
436	580949.69	4141566.00	0.00149	0.1217	0.6113	1.110	0.517	0.153	1.781
437	580951.00	4141799.25	0.00070	0.0562	0.2824	0.521	0.239	0.071	0.831
438	580951.38	4142335.25	0.00028	0.0218	0.1095	0.210	0.093	0.027	0.330
439	580957.88	4141592.00	0.00129	0.1047	0.5257	0.959	0.445	0.132	1.535
440	580960.50	4142059.00	0.00042	0.0331	0.1663	0.311	0.141	0.042	0.494
441	580966.06	4141618.25	0.00113	0.0918	0.4608	0.841	0.390	0.116	1.347
442	580967.31	4141851.75	0.00060	0.0484	0.2432	0.448	0.206	0.061	0.715
443	580974.25	4141644.50	0.00101	0.0817	0.4103	0.750	0.347	0.103	1.200
444	580981.00	4141437.25	0.00298	0.2473	1.2415	2.218	1.051	0.311	3.580
445	580983.69	4141904.25	0.00053	0.0423	0.2125	0.394	0.180	0.053	0.628
446	580984.12	4142440.25	0.00024	0.0182	0.0915	0.176	0.077	0.023	0.276
447	580989.25	4141463.50	0.00222	0.1823	0.9154	1.649	0.775	0.229	2.654
448	580990.56	4141697.00	0.00083	0.0669	0.3358	0.616	0.284	0.084	0.985
449	580993.19	4142163.75	0.00034	0.0268	0.1347	0.255	0.114	0.034	0.402
450	580997.44	4141489.75	0.00178	0.1455	0.7308	1.322	0.619	0.183	2.124
451	581000.06	4141956.50	0.00047	0.0374	0.1879	0.350	0.159	0.047	0.556
452	581005.62	4141516.00	0.00149	0.1217	0.6112	1.110	0.517	0.153	1.781
453	581006.94	4141749.25	0.00070	0.0565	0.2835	0.521	0.240	0.071	0.832
454	581013.81	4141542.25	0.00129	0.1048	0.5263	0.959	0.445	0.132	1.536
455	581016.44	4142009.00	0.00042	0.0334	0.1676	0.314	0.142	0.042	0.498
456	581016.81	4142545.00	0.00020	0.0154	0.0771	0.147	0.065	0.019	0.232
457	581022.00	4141568.25	0.00113	0.0921	0.4624	0.843	0.391	0.116	1.350
458	581023.25	4141801.75	0.00061	0.0487	0.2443	0.454	0.207	0.061	0.722
459	581025.94	4142268.75	0.00028	0.0221	0.1111	0.211	0.094	0.028	0.333
460	581030.19	4141594.50	0.00101	0.0820	0.4118	0.752	0.349	0.103	1.203
461	581036.75	4141387.00	0.00299	0.2482	1.2464	2.225	1.055	0.312	3.593
462	581039.62	4141854.25	0.00053	0.0426	0.2138	0.397	0.181	0.054	0.632
463	581044.94	4141413.25	0.00222	0.1831	0.9196	1.655	0.778	0.230	2.664
464	581046.50	4141647.00	0.00083	0.0672	0.3374	0.621	0.286	0.085	0.991
465	581053.19	4141439.50	0.00179	0.1466	0.7361	1.331	0.623	0.185	2.138
466	581056.00	4141906.75	0.00047	0.0377	0.1892	0.353	0.160	0.047	0.560
467	581058.69	4142373.50	0.00024	0.0185	0.0929	0.176	0.079	0.023	0.278
468	581061.38	4141465.75	0.00151	0.1227	0.6163	1.121	0.522	0.154	1.797
469	581062.88	4141699.50	0.00071	0.0568	0.2851	0.525	0.241	0.071	0.838

470	581067.75	4142097.25	0.00035	0.0272	0.1364	0.258	0.115	0.034	0.407
471	581069.56	4141492.00	0.00130	0.1056	0.5303	0.966	0.449	0.133	1.548
472	581072.31	4141959.00	0.00042	0.0337	0.1690	0.314	0.143	0.042	0.499
473	581077.81	4141518.25	0.00114	0.0926	0.4650	0.850	0.394	0.117	1.360
474	581079.25	4141751.75	0.00061	0.0490	0.2461	0.456	0.208	0.062	0.725
475	581086.00	4141544.50	0.00102	0.0825	0.4140	0.758	0.350	0.104	1.212
476	581091.38	4142478.50	0.00020	0.0156	0.0785	0.149	0.066	0.020	0.235
477	581093.06	4141337.50	0.00299	0.2478	1.2443	2.224	1.053	0.312	3.589
478	581095.56	4141804.25	0.00054	0.0429	0.2155	0.399	0.182	0.054	0.635
479	581100.50	4142202.00	0.00028	0.0224	0.1127	0.211	0.095	0.028	0.335
480	581101.00	4141363.50	0.00224	0.1841	0.9242	1.664	0.782	0.232	2.678
481	581102.44	4141597.00	0.00084	0.0676	0.3395	0.624	0.287	0.085	0.996
482	581108.88	4141389.25	0.00181	0.1478	0.7419	1.346	0.628	0.186	2.160
483	581111.94	4141856.75	0.00048	0.0380	0.1908	0.356	0.161	0.048	0.565
484	581117.12	4141415.50	0.00151	0.1233	0.6191	1.125	0.524	0.155	1.805
485	581118.81	4141649.50	0.00071	0.0572	0.2872	0.528	0.243	0.072	0.844
486	581125.31	4141441.75	0.00130	0.1062	0.5330	0.969	0.451	0.134	1.554
487	581128.31	4141909.00	0.00043	0.0339	0.1704	0.317	0.144	0.043	0.504
488	581133.25	4142307.00	0.00024	0.0188	0.0943	0.177	0.080	0.024	0.281
489	581133.50	4141468.00	0.00115	0.0933	0.4685	0.854	0.397	0.117	1.368
490	581135.19	4141702.00	0.00062	0.0494	0.2478	0.458	0.210	0.062	0.730
491	581141.75	4141494.25	0.00103	0.0832	0.4177	0.765	0.354	0.105	1.223
492	581142.38	4142030.50	0.00035	0.0275	0.1382	0.259	0.117	0.035	0.411
493	581150.75	4141289.50	0.00297	0.2461	1.2359	2.214	1.046	0.310	3.569
494	581151.56	4141754.25	0.00054	0.0433	0.2172	0.402	0.184	0.054	0.640
495	581158.19	4141546.75	0.00085	0.0682	0.3427	0.630	0.290	0.086	1.006
496	581158.69	4141315.50	0.00223	0.1830	0.9187	1.658	0.778	0.230	2.666
497	581165.94	4142411.75	0.00021	0.0159	0.0797	0.153	0.067	0.020	0.241
498	581166.62	4141341.50	0.00180	0.1471	0.7385	1.338	0.625	0.185	2.148
499	581167.88	4141806.75	0.00048	0.0383	0.1924	0.357	0.163	0.048	0.568
500	581174.50	4141367.25	0.00152	0.1238	0.6217	1.131	0.526	0.156	1.813
501	581174.56	4141599.25	0.00072	0.0577	0.2896	0.534	0.245	0.073	0.852
502	581175.06	4142135.50	0.00029	0.0228	0.1143	0.216	0.097	0.029	0.341
503	581182.44	4141393.25	0.00132	0.1070	0.5370	0.982	0.455	0.135	1.572
504	581184.25	4141859.25	0.00043	0.0342	0.1719	0.322	0.146	0.043	0.510
505	581190.38	4141419.25	0.00116	0.0941	0.4727	0.865	0.400	0.118	1.383
506	581191.00	4141651.75	0.00062	0.0498	0.2500	0.461	0.212	0.063	0.736
507	581198.31	4141445.00	0.00104	0.0841	0.4223	0.773	0.357	0.106	1.236
508	581207.44	4141704.25	0.00055	0.0437	0.2192	0.406	0.186	0.055	0.647
509	581207.81	4142240.25	0.00025	0.0191	0.0957	0.183	0.081	0.024	0.288
510	581210.69	4141244.50	0.00292	0.2403	1.2069	2.172	1.021	0.302	3.496
511	581214.12	4141497.00	0.00086	0.0692	0.3472	0.639	0.294	0.087	1.020
512	581216.94	4141964.00	0.00035	0.0279	0.1400	0.262	0.118	0.035	0.416
513	581218.19	4141270.00	0.00220	0.1801	0.9043	1.637	0.765	0.227	2.630
514	581223.88	4141756.75	0.00049	0.0387	0.1944	0.362	0.165	0.049	0.575
515	581225.69	4141295.25	0.00179	0.1459	0.7328	1.331	0.620	0.184	2.135
516	581230.31	4141549.25	0.00073	0.0585	0.2937	0.542	0.249	0.074	0.864
517	581233.19	4141320.75	0.00151	0.1232	0.6188	1.127	0.524	0.155	1.806
518	581240.19	4141809.25	0.00043	0.0346	0.1738	0.323	0.147	0.044	0.514
519	581240.50	4142345.25	0.00021	0.0161	0.0809	0.155	0.068	0.020	0.244
520	581240.69	4141346.00	0.00132	0.1071	0.5379	0.982	0.455	0.135	1.573
521	581246.75	4141601.75	0.00063	0.0505	0.2534	0.467	0.214	0.064	0.745
522	581248.19	4141371.25	0.00117	0.0948	0.4760	0.871	0.403	0.119	1.393
523	581249.69	4142068.75	0.00029	0.0231	0.1159	0.217	0.098	0.029	0.344
524	581256.00	4141397.25	0.00105	0.0847	0.4254	0.780	0.360	0.107	1.247
525	581263.19	4141654.25	0.00056	0.0442	0.2220	0.414	0.188	0.056	0.657
526	581271.88	4141449.00	0.00087	0.0698	0.3503	0.646	0.297	0.088	1.030
527	581272.62	4141202.25	0.00287	0.2356	1.1830	2.139	1.001	0.297	3.437
528	581279.56	4141706.75	0.00049	0.0392	0.1967	0.366	0.166	0.049	0.582
529	581279.75	4141227.25	0.00218	0.1778	0.8927	1.624	0.756	0.224	2.603
530	581282.38	4142173.75	0.00025	0.0193	0.0971	0.185	0.082	0.024	0.291
531	581286.94	4141252.00	0.00179	0.1449	0.7276	1.329	0.616	0.182	2.127
532	581287.69	4141500.75	0.00074	0.0591	0.2967	0.548	0.251	0.074	0.873
533	581291.56	4141897.50	0.00036	0.0283	0.1420	0.265	0.120	0.036	0.421
534	581294.25	4141277.00	0.00151	0.1228	0.6164	1.127	0.522	0.154	1.803
535	581296.00	4141759.25	0.00044	0.0350	0.1758	0.329	0.149	0.044	0.522
536	581301.75	4141302.50	0.00132	0.1064	0.5344	0.981	0.452	0.134	1.567
537	581303.56	4141552.75	0.00064	0.0510	0.2562	0.473	0.217	0.064	0.754
538	581309.25	4141327.75	0.00117	0.0941	0.4726	0.868	0.400	0.118	1.386
539	581315.06	4142278.50	0.00021	0.0164	0.0822	0.156	0.070	0.021	0.246
540	581316.75	4141353.25	0.00105	0.0843	0.4235	0.779	0.358	0.106	1.243
541	581319.38	4141604.50	0.00056	0.0448	0.2248	0.417	0.190	0.056	0.663
542	581324.25	4142002.25	0.00030	0.0234	0.1176	0.223	0.100	0.029	0.352
543	581331.75	4141404.00	0.00087	0.0698	0.3505	0.646	0.297	0.088	1.031
544	581335.31	4141656.50	0.00050	0.0397	0.1995	0.369	0.169	0.050	0.588
545	581337.56	4141164.75	0.00278	0.2268	1.1389	2.072	0.964	0.285	3.321
546	581344.50	4141189.50	0.00213	0.1722	0.8644	1.582	0.732	0.217	2.531
547	581346.69	4141454.75	0.00074	0.0594	0.2985	0.552	0.253	0.075	0.880
548	581351.50	4141214.00	0.00174	0.1405	0.7053	1.295	0.597	0.177	2.069
549	581351.75	4141709.00	0.00044	0.0355	0.1781	0.330	0.151	0.045	0.526

550	581357.00	4142107.00	0.00025	0.0196	0.0986	0.186	0.083	0.025	0.294
551	581358.50	4141238.50	0.00148	0.1194	0.5994	1.102	0.507	0.150	1.759
552	581361.69	4141505.25	0.00065	0.0516	0.2589	0.481	0.219	0.065	0.765
553	581365.56	4141263.25	0.00129	0.1040	0.5222	0.960	0.442	0.131	1.533
554	581366.00	4141830.75	0.00036	0.0287	0.1443	0.271	0.122	0.036	0.429
555	581372.75	4141288.00	0.00115	0.0923	0.4634	0.853	0.392	0.116	1.361
556	581377.06	4141556.50	0.00057	0.0452	0.2271	0.421	0.192	0.057	0.670
557	581379.94	4141313.00	0.00103	0.0830	0.4165	0.767	0.353	0.104	1.224
558	581389.69	4142212.00	0.00021	0.0166	0.0835	0.158	0.071	0.021	0.249
559	581392.94	4141608.50	0.00050	0.0401	0.2012	0.374	0.170	0.050	0.594
560	581394.25	4141362.50	0.00086	0.0691	0.3470	0.640	0.294	0.087	1.021
561	581398.88	4141935.75	0.00030	0.0238	0.1195	0.225	0.101	0.030	0.356
562	581404.19	4141130.50	0.00268	0.2170	1.0897	1.993	0.922	0.273	3.189
563	581408.56	4141412.25	0.00074	0.0591	0.2967	0.549	0.251	0.074	0.875
564	581408.75	4141660.25	0.00045	0.0358	0.1799	0.335	0.152	0.045	0.532
565	581411.12	4141155.00	0.00205	0.1652	0.8293	1.526	0.702	0.208	2.436
566	581418.12	4141179.50	0.00168	0.1352	0.6787	1.250	0.574	0.170	1.995
567	581422.88	4141462.00	0.00064	0.0514	0.2582	0.479	0.219	0.065	0.763
568	581425.12	4141204.00	0.00144	0.1152	0.5785	1.069	0.490	0.145	1.703
569	581431.56	4142040.50	0.00026	0.0200	0.1002	0.191	0.085	0.025	0.300
570	581432.12	4141228.50	0.00125	0.1007	0.5059	0.933	0.428	0.127	1.488
571	581437.75	4141512.50	0.00057	0.0452	0.2270	0.421	0.192	0.057	0.670
572	581439.06	4141253.00	0.00112	0.0896	0.4500	0.834	0.381	0.113	1.327
573	581440.44	4141764.00	0.00037	0.0292	0.1468	0.275	0.124	0.037	0.436
574	581446.06	4141277.50	0.00101	0.0807	0.4054	0.749	0.343	0.102	1.194
575	581452.75	4141563.25	0.00051	0.0402	0.2017	0.377	0.171	0.051	0.598
576	581460.00	4141326.75	0.00084	0.0674	0.3383	0.627	0.286	0.085	0.998
577	581464.31	4142145.50	0.00022	0.0169	0.0847	0.161	0.072	0.021	0.254
578	581467.75	4141614.00	0.00045	0.0360	0.1807	0.336	0.153	0.045	0.535
579	581471.25	4141097.00	0.00263	0.2125	1.0671	1.959	0.903	0.267	3.130
580	581473.19	4141868.75	0.00030	0.0242	0.1215	0.226	0.103	0.030	0.360
581	581474.00	4141375.75	0.00072	0.0578	0.2903	0.539	0.246	0.073	0.857
582	581478.19	4141121.25	0.00201	0.1615	0.8108	1.498	0.686	0.203	2.387
583	581485.12	4141145.75	0.00165	0.1317	0.6613	1.225	0.560	0.166	1.951
584	581488.00	4141424.75	0.00063	0.0505	0.2534	0.470	0.214	0.064	0.748
585	581492.06	4141170.25	0.00140	0.1121	0.5627	1.043	0.476	0.141	1.661
586	581499.00	4141194.50	0.00122	0.0980	0.4923	0.911	0.417	0.123	1.451
587	581501.94	4141473.75	0.00056	0.0446	0.2239	0.415	0.190	0.056	0.661
588	581505.94	4141219.00	0.00109	0.0872	0.4381	0.813	0.371	0.110	1.293
589	581506.00	4141973.75	0.00026	0.0203	0.1018	0.191	0.086	0.026	0.302
590	581512.81	4141243.50	0.00099	0.0787	0.3951	0.734	0.334	0.099	1.167
591	581515.94	4141523.00	0.00050	0.0398	0.1998	0.372	0.169	0.050	0.591
592	581518.06	4141701.00	0.00037	0.0295	0.1479	0.275	0.125	0.037	0.438
593	581526.69	4141292.25	0.00082	0.0658	0.3305	0.612	0.280	0.083	0.974
594	581530.19	4141572.50	0.00045	0.0358	0.1796	0.336	0.152	0.045	0.533
595	581538.81	4141064.25	0.00259	0.2087	1.0479	1.929	0.887	0.263	3.079
596	581538.88	4142078.75	0.00022	0.0171	0.0860	0.162	0.073	0.022	0.257
597	581540.62	4141341.25	0.00071	0.0564	0.2834	0.525	0.240	0.071	0.836
598	581545.75	4141088.75	0.00197	0.1578	0.7923	1.468	0.671	0.199	2.337
599	581549.12	4141803.75	0.00031	0.0245	0.1229	0.232	0.104	0.031	0.367
600	581552.62	4141113.00	0.00161	0.1288	0.6467	1.200	0.547	0.162	1.909
601	581554.56	4141390.25	0.00062	0.0493	0.2473	0.461	0.209	0.062	0.733
602	581559.56	4141137.50	0.00137	0.1094	0.5495	1.021	0.465	0.138	1.624
603	581566.50	4141162.00	0.00120	0.0955	0.4795	0.892	0.406	0.120	1.418
604	581568.56	4141439.50	0.00055	0.0435	0.2186	0.406	0.185	0.055	0.646
605	581573.44	4141186.50	0.00107	0.0849	0.4263	0.793	0.361	0.107	1.261
606	581580.38	4141210.75	0.00096	0.0766	0.3844	0.715	0.325	0.096	1.136
607	581580.75	4141907.25	0.00026	0.0205	0.1032	0.194	0.087	0.026	0.307
608	581582.50	4141488.50	0.00049	0.0389	0.1953	0.363	0.165	0.049	0.577
609	581594.19	4141259.75	0.00080	0.0640	0.3214	0.597	0.272	0.081	0.950
610	581596.50	4141537.50	0.00044	0.0350	0.1758	0.329	0.149	0.044	0.522
611	581602.25	4141647.25	0.00037	0.0291	0.1461	0.275	0.124	0.037	0.436
612	581606.31	4141031.75	0.00256	0.2056	1.0322	1.905	0.874	0.259	3.038
613	581608.06	4141308.50	0.00069	0.0550	0.2761	0.512	0.234	0.069	0.815
614	581613.12	4142011.75	0.00022	0.0174	0.0872	0.162	0.074	0.022	0.258
615	581613.25	4141056.00	0.00195	0.1555	0.7810	1.450	0.661	0.196	2.307
616	581620.19	4141080.50	0.00159	0.1264	0.6348	1.180	0.537	0.159	1.877
617	581621.94	4141357.25	0.00060	0.0481	0.2413	0.450	0.204	0.060	0.714
618	581627.12	4141105.00	0.00135	0.1073	0.5387	1.002	0.456	0.135	1.593
619	581630.38	4141745.75	0.00031	0.0244	0.1225	0.231	0.104	0.031	0.365
620	581634.00	4141129.25	0.00118	0.0936	0.4702	0.875	0.398	0.118	1.391
621	581635.75	4141406.25	0.00054	0.0425	0.2134	0.399	0.181	0.053	0.633
622	581640.94	4141153.75	0.00105	0.0831	0.4173	0.779	0.353	0.105	1.236
623	581647.88	4141178.25	0.00094	0.0748	0.3754	0.700	0.318	0.094	1.111
624	581649.62	4141455.00	0.00048	0.0380	0.1907	0.354	0.161	0.048	0.563
625	581659.44	4141845.75	0.00026	0.0206	0.1035	0.195	0.088	0.026	0.309
626	581661.75	4141227.00	0.00078	0.0624	0.3134	0.582	0.265	0.079	0.926
627	581663.50	4141503.75	0.00043	0.0342	0.1717	0.320	0.145	0.043	0.508
628	581673.81	4140999.00	0.00254	0.2037	1.0227	1.891	0.866	0.256	3.012
629	581675.56	4141275.75	0.00067	0.0536	0.2692	0.502	0.228	0.067	0.797

630	581680.75	4141023.50	0.00193	0.1536	0.7712	1.434	0.653	0.193	2.280
631	581687.69	4141047.75	0.00157	0.1250	0.6275	1.169	0.531	0.157	1.857
632	581689.44	4141324.75	0.00059	0.0468	0.2352	0.439	0.199	0.059	0.697
633	581689.44	4141947.25	0.00022	0.0175	0.0879	0.165	0.074	0.022	0.262
634	581691.19	4141601.50	0.00036	0.0282	0.1418	0.266	0.120	0.036	0.422
635	581694.62	4141072.25	0.00133	0.1059	0.5317	0.993	0.450	0.133	1.576
636	581701.56	4141096.75	0.00116	0.0921	0.4627	0.863	0.392	0.116	1.371
637	581703.31	4141373.50	0.00052	0.0415	0.2082	0.389	0.176	0.052	0.617
638	581708.50	4141121.00	0.00103	0.0817	0.4104	0.767	0.347	0.103	1.217
639	581715.38	4141145.50	0.00092	0.0734	0.3686	0.688	0.312	0.092	1.092
640	581717.12	4141422.25	0.00047	0.0371	0.1861	0.347	0.157	0.047	0.551
641	581719.00	4141699.25	0.00030	0.0237	0.1190	0.225	0.101	0.030	0.355
642	581729.25	4141194.25	0.00077	0.0611	0.3068	0.573	0.260	0.077	0.910
643	581731.00	4141471.25	0.00042	0.0333	0.1674	0.313	0.142	0.042	0.496
644	581741.38	4140966.25	0.00252	0.2020	1.0145	1.877	0.859	0.254	2.990
645	581743.12	4141243.25	0.00066	0.0523	0.2626	0.491	0.222	0.066	0.779
646	581746.94	4141797.50	0.00026	0.0201	0.1009	0.191	0.085	0.025	0.301
647	581748.25	4140990.75	0.00191	0.1522	0.7643	1.423	0.647	0.192	2.262
648	581755.19	4141015.25	0.00156	0.1235	0.6201	1.158	0.525	0.155	1.838
649	581756.94	4141292.00	0.00057	0.0457	0.2295	0.427	0.194	0.058	0.679
650	581762.12	4141039.50	0.00132	0.1047	0.5256	0.981	0.445	0.132	1.558
651	581769.06	4141064.00	0.00114	0.0910	0.4568	0.851	0.387	0.114	1.353
652	581770.81	4141340.75	0.00051	0.0404	0.2031	0.380	0.172	0.051	0.602
653	581774.88	4141895.50	0.00022	0.0172	0.0863	0.161	0.073	0.022	0.255
654	581776.00	4141088.50	0.00101	0.0805	0.4041	0.753	0.342	0.101	1.197
655	581781.25	4141558.00	0.00034	0.0273	0.1369	0.256	0.116	0.034	0.406
656	581782.94	4141112.75	0.00091	0.0722	0.3627	0.679	0.307	0.091	1.077
657	581784.69	4141389.75	0.00046	0.0361	0.1814	0.339	0.154	0.045	0.538
658	581796.75	4141161.75	0.00075	0.0599	0.3009	0.561	0.255	0.075	0.891
659	581798.50	4141438.50	0.00041	0.0325	0.1632	0.305	0.138	0.041	0.484
660	581808.88	4140933.75	0.00250	0.2001	1.0049	1.861	0.851	0.252	2.963
661	581808.94	4141655.75	0.00029	0.0229	0.1148	0.216	0.097	0.029	0.342
662	581810.62	4141210.50	0.00064	0.0512	0.2572	0.478	0.218	0.064	0.760
663	581815.81	4140958.00	0.00190	0.1511	0.7586	1.414	0.642	0.190	2.246
664	581822.75	4140982.50	0.00154	0.1224	0.6146	1.146	0.520	0.154	1.820
665	581824.50	4141259.25	0.00056	0.0446	0.2241	0.417	0.190	0.056	0.663
666	581829.69	4141007.00	0.00130	0.1034	0.5194	0.971	0.440	0.130	1.540
667	581836.56	4141031.25	0.00113	0.0899	0.4515	0.844	0.382	0.113	1.339
668	581836.62	4141753.25	0.00025	0.0194	0.0974	0.183	0.082	0.024	0.290
669	581838.31	4141308.25	0.00049	0.0394	0.1978	0.368	0.167	0.050	0.585
670	581843.50	4141055.75	0.00100	0.0795	0.3992	0.744	0.338	0.100	1.182
671	581850.44	4141080.25	0.00090	0.0713	0.3578	0.670	0.303	0.090	1.062
672	581852.19	4141357.00	0.00044	0.0351	0.1764	0.327	0.149	0.044	0.521
673	581864.31	4141129.00	0.00074	0.0591	0.2966	0.554	0.251	0.074	0.879
674	581864.38	4141851.00	0.00021	0.0166	0.0833	0.156	0.071	0.021	0.248
675	581866.06	4141406.00	0.00040	0.0316	0.1586	0.295	0.134	0.040	0.469
676	581871.25	4141514.50	0.00033	0.0263	0.1319	0.249	0.112	0.033	0.393
677	581876.38	4140901.00	0.00249	0.1990	0.9994	1.852	0.846	0.250	2.948
678	581878.12	4141178.00	0.00063	0.0503	0.2526	0.470	0.214	0.063	0.748
679	581883.31	4140925.50	0.00188	0.1496	0.7511	1.401	0.636	0.188	2.225
680	581890.25	4140949.75	0.00153	0.1211	0.6079	1.137	0.515	0.152	1.804
681	581892.00	4141226.75	0.00055	0.0437	0.2194	0.409	0.186	0.055	0.650
682	581897.19	4140974.25	0.00129	0.1021	0.5126	0.957	0.434	0.128	1.520
683	581898.94	4141612.00	0.00028	0.0220	0.1105	0.205	0.093	0.028	0.327
684	581904.12	4140998.75	0.00112	0.0885	0.4446	0.831	0.376	0.111	1.318
685	581905.88	4141275.50	0.00048	0.0384	0.1931	0.360	0.163	0.048	0.572
686	581911.00	4141023.25	0.00099	0.0783	0.3930	0.737	0.333	0.098	1.168
687	581917.94	4141047.50	0.00089	0.0702	0.3524	0.659	0.298	0.088	1.046
688	581919.69	4141324.50	0.00043	0.0342	0.1716	0.320	0.145	0.043	0.508
689	581926.69	4141709.75	0.00023	0.0186	0.0936	0.174	0.079	0.023	0.277
690	581931.81	4141096.50	0.00073	0.0580	0.2913	0.543	0.247	0.073	0.863
691	581933.56	4141373.25	0.00038	0.0307	0.1539	0.286	0.130	0.039	0.455
692	581943.94	4140868.50	0.00246	0.1969	0.9884	1.831	0.837	0.248	2.915
693	581945.69	4141145.25	0.00062	0.0493	0.2476	0.463	0.210	0.062	0.735
694	581950.81	4140892.75	0.00186	0.1481	0.7439	1.387	0.630	0.186	2.203
695	581954.38	4141807.50	0.00020	0.0160	0.0801	0.149	0.068	0.020	0.237
696	581957.75	4140917.25	0.00151	0.1198	0.6016	1.124	0.509	0.151	1.784
697	581959.50	4141194.00	0.00054	0.0427	0.2145	0.400	0.182	0.054	0.636
698	581961.25	4141471.00	0.00032	0.0252	0.1264	0.235	0.107	0.032	0.374
699	581964.69	4140941.75	0.00127	0.1010	0.5074	0.948	0.429	0.127	1.505
700	581971.62	4140966.00	0.00111	0.0876	0.4396	0.823	0.372	0.110	1.305
701	581973.38	4141243.00	0.00047	0.0375	0.1882	0.351	0.159	0.047	0.558
702	581978.56	4140990.50	0.00097	0.0771	0.3873	0.723	0.328	0.097	1.148
703	581985.50	4141015.00	0.00087	0.0689	0.3461	0.648	0.293	0.087	1.027
704	581987.25	4141291.75	0.00042	0.0333	0.1670	0.311	0.141	0.042	0.494
705	581989.00	4141568.50	0.00027	0.0211	0.1059	0.198	0.090	0.027	0.314
706	581999.31	4141063.75	0.00072	0.0568	0.2852	0.533	0.241	0.071	0.846
707	582001.06	4141340.50	0.00037	0.0298	0.1496	0.278	0.127	0.037	0.442
708	582011.31	4140835.50	0.00244	0.1955	0.9818	1.818	0.831	0.246	2.895
709	582013.19	4141112.50	0.00061	0.0482	0.2418	0.451	0.205	0.061	0.716

710	582016.69	4141666.25	0.00022	0.0179	0.0898	0.167	0.076	0.023	0.265
711	582018.31	4140860.00	0.00185	0.1468	0.7370	1.374	0.624	0.185	2.182
712	582025.25	4140884.50	0.00149	0.1186	0.5954	1.110	0.504	0.149	1.764
713	582027.06	4141161.50	0.00052	0.0416	0.2090	0.390	0.177	0.052	0.619
714	582032.19	4140909.00	0.00126	0.0999	0.5015	0.938	0.425	0.126	1.488
715	582039.12	4140933.50	0.00109	0.0864	0.4337	0.811	0.367	0.109	1.287
716	582040.88	4141210.25	0.00046	0.0365	0.1832	0.341	0.155	0.046	0.542
717	582044.44	4141764.00	0.00019	0.0153	0.0769	0.141	0.065	0.019	0.226
718	582046.06	4140957.75	0.00096	0.0761	0.3822	0.716	0.323	0.096	1.135
719	582051.31	4141427.50	0.00030	0.0241	0.1210	0.225	0.102	0.030	0.358
720	582053.00	4140982.25	0.00086	0.0679	0.3410	0.637	0.289	0.085	1.011
721	582054.75	4141259.00	0.00041	0.0323	0.1623	0.302	0.137	0.041	0.480
722	582066.88	4141031.00	0.00070	0.0557	0.2799	0.524	0.237	0.070	0.831
723	582068.62	4141308.00	0.00036	0.0289	0.1450	0.269	0.123	0.036	0.429
724	582078.50	4140802.25	0.00243	0.1948	0.9779	1.810	0.828	0.245	2.883
725	582079.00	4141525.00	0.00025	0.0201	0.1011	0.189	0.086	0.025	0.300
726	582080.69	4141080.00	0.00059	0.0470	0.2362	0.442	0.200	0.059	0.701
727	582085.44	4140826.50	0.00184	0.1463	0.7344	1.368	0.622	0.184	2.174
728	582092.38	4140851.00	0.00148	0.1178	0.5915	1.105	0.501	0.148	1.753
729	582094.56	4141128.75	0.00051	0.0405	0.2034	0.378	0.172	0.051	0.601
730	582099.31	4140875.50	0.00125	0.0989	0.4966	0.927	0.420	0.124	1.472
731	582106.31	4140900.00	0.00107	0.0853	0.4282	0.799	0.362	0.107	1.269
732	582106.75	4141622.75	0.00021	0.0171	0.0858	0.159	0.073	0.022	0.253
733	582108.44	4141177.50	0.00045	0.0354	0.1777	0.332	0.150	0.045	0.527
734	582113.25	4140924.50	0.00094	0.0749	0.3763	0.703	0.318	0.094	1.115
735	582120.19	4140949.00	0.00084	0.0668	0.3352	0.627	0.284	0.084	0.994
736	582122.25	4141226.50	0.00039	0.0313	0.1569	0.292	0.133	0.039	0.464
737	582134.06	4140997.75	0.00069	0.0546	0.2743	0.512	0.232	0.069	0.813
738	582134.44	4141720.50	0.00018	0.0147	0.0736	0.137	0.062	0.018	0.218
739	582136.12	4141275.25	0.00035	0.0279	0.1400	0.261	0.119	0.035	0.414
740	582141.31	4141383.75	0.00029	0.0230	0.1155	0.214	0.098	0.029	0.341
741	582145.62	4140768.75	0.00242	0.1939	0.9735	1.801	0.824	0.244	2.869
742	582148.00	4141046.75	0.00058	0.0459	0.2306	0.430	0.195	0.058	0.683
743	582152.62	4140793.25	0.00182	0.1450	0.7279	1.355	0.616	0.182	2.153
744	582159.56	4140817.75	0.00147	0.1166	0.5857	1.091	0.496	0.147	1.734
745	582161.88	4141095.75	0.00049	0.0394	0.1978	0.366	0.167	0.050	0.583
746	582166.50	4140842.25	0.00123	0.0978	0.4912	0.917	0.416	0.123	1.456
747	582169.06	4141481.50	0.00024	0.0192	0.0962	0.180	0.081	0.024	0.286
748	582173.44	4140866.50	0.00106	0.0843	0.4235	0.792	0.358	0.106	1.257
749	582175.81	4141144.75	0.00043	0.0343	0.1721	0.319	0.146	0.043	0.507
750	582180.38	4140891.00	0.00093	0.0739	0.3713	0.694	0.314	0.093	1.101
751	582187.38	4140915.50	0.00082	0.0657	0.3298	0.613	0.279	0.083	0.975
752	582189.69	4141193.50	0.00038	0.0302	0.1515	0.281	0.128	0.038	0.448
753	582196.75	4141579.25	0.00020	0.0163	0.0816	0.152	0.069	0.020	0.241
754	582201.25	4140964.50	0.00067	0.0534	0.2682	0.499	0.227	0.067	0.793
755	582203.56	4141242.50	0.00033	0.0268	0.1348	0.249	0.114	0.034	0.396
756	582212.81	4140735.25	0.00241	0.1930	0.9693	1.792	0.820	0.243	2.856
757	582215.12	4141013.50	0.00056	0.0447	0.2245	0.415	0.190	0.056	0.662
758	582219.75	4140759.75	0.00181	0.1442	0.7240	1.347	0.613	0.181	2.141
759	582224.44	4141677.00	0.00017	0.0140	0.0701	0.130	0.059	0.018	0.206
760	582226.69	4140784.25	0.00145	0.1156	0.5805	1.082	0.491	0.146	1.719
761	582229.06	4141062.25	0.00048	0.0382	0.1918	0.356	0.162	0.048	0.566
762	582231.38	4141340.25	0.00027	0.0218	0.1094	0.202	0.093	0.027	0.322
763	582233.69	4140808.75	0.00121	0.0965	0.4847	0.904	0.410	0.121	1.435
764	582240.62	4140833.25	0.00104	0.0828	0.4158	0.776	0.352	0.104	1.232
765	582242.94	4141111.25	0.00041	0.0331	0.1663	0.308	0.141	0.042	0.491
766	582247.56	4140857.75	0.00091	0.0724	0.3635	0.677	0.308	0.091	1.076
767	582254.50	4140882.25	0.00081	0.0641	0.3221	0.600	0.273	0.081	0.953
768	582256.88	4141160.25	0.00036	0.0291	0.1459	0.271	0.124	0.037	0.431
769	582259.06	4141438.00	0.00023	0.0182	0.0912	0.168	0.077	0.023	0.268
770	582268.44	4140931.00	0.00065	0.0520	0.2609	0.484	0.221	0.065	0.770
771	582270.75	4141209.00	0.00032	0.0258	0.1296	0.238	0.110	0.032	0.380
772	582280.00	4140702.00	0.00238	0.1913	0.9605	1.773	0.813	0.241	2.827
773	582282.31	4140980.00	0.00054	0.0433	0.2172	0.402	0.184	0.054	0.640
774	582286.75	4141535.75	0.00019	0.0154	0.0775	0.141	0.066	0.019	0.226
775	582286.94	4140726.50	0.00178	0.1424	0.7151	1.328	0.605	0.179	2.112
776	582293.88	4140751.00	0.00143	0.1140	0.5723	1.064	0.484	0.143	1.692
777	582296.19	4141029.00	0.00046	0.0368	0.1847	0.342	0.156	0.046	0.545
778	582300.81	4140775.25	0.00119	0.0952	0.4779	0.887	0.404	0.120	1.411
779	582307.75	4140799.75	0.00102	0.0814	0.4086	0.759	0.346	0.102	1.207
780	582310.12	4141077.75	0.00040	0.0318	0.1597	0.295	0.135	0.040	0.470
781	582314.50	4141633.25	0.00016	0.0133	0.0667	0.122	0.056	0.017	0.195
782	582314.75	4140824.25	0.00089	0.0708	0.3556	0.662	0.301	0.089	1.053
783	582320.94	4141295.75	0.00025	0.0206	0.1035	0.188	0.088	0.026	0.301
784	582321.69	4140848.75	0.00078	0.0625	0.3138	0.584	0.266	0.079	0.928
785	582324.00	4141126.75	0.00035	0.0279	0.1399	0.259	0.118	0.035	0.413
786	582335.56	4140897.75	0.00063	0.0502	0.2520	0.467	0.213	0.063	0.744
787	582337.88	4141175.75	0.00031	0.0247	0.1241	0.228	0.105	0.031	0.364
788	582347.56	4140669.50	0.00236	0.1900	0.9542	1.760	0.808	0.239	2.806
789	582348.75	4141393.75	0.00021	0.0172	0.0862	0.159	0.073	0.022	0.254

790	582349.44	4140946.50	0.00052	0.0416	0.2088	0.386	0.177	0.052	0.615
791	582354.50	4140694.00	0.00176	0.1408	0.7068	1.313	0.598	0.177	2.088
792	582361.38	4140718.25	0.00141	0.1122	0.5633	1.046	0.477	0.141	1.664
793	582363.38	4140995.50	0.00044	0.0352	0.1768	0.326	0.150	0.044	0.520
794	582368.31	4140742.75	0.00116	0.0929	0.4663	0.866	0.395	0.117	1.378
795	582375.25	4140767.00	0.00099	0.0790	0.3968	0.737	0.336	0.099	1.172
796	582376.50	4141491.50	0.00018	0.0146	0.0733	0.134	0.062	0.018	0.214
797	582377.25	4141044.50	0.00037	0.0303	0.1524	0.278	0.129	0.038	0.446
798	582382.12	4140791.50	0.00085	0.0684	0.3433	0.636	0.291	0.086	1.012
799	582389.00	4140815.75	0.00075	0.0600	0.3015	0.558	0.255	0.076	0.889
800	582391.19	4141093.50	0.00033	0.0265	0.1333	0.244	0.113	0.033	0.390
801	582402.88	4140864.50	0.00059	0.0478	0.2400	0.442	0.203	0.060	0.705
802	582404.31	4141589.50	0.00015	0.0126	0.0632	0.115	0.053	0.016	0.184
803	582405.06	4141142.25	0.00029	0.0235	0.1182	0.216	0.100	0.030	0.345
804	582410.50	4141251.25	0.00024	0.0194	0.0973	0.179	0.082	0.024	0.285
805	582415.44	4140637.75	0.00233	0.1877	0.9423	1.737	0.798	0.236	2.771
806	582416.69	4140913.25	0.00049	0.0394	0.1978	0.363	0.167	0.050	0.580
807	582422.38	4140662.00	0.00173	0.1380	0.6931	1.285	0.587	0.174	2.045
808	582429.25	4140686.50	0.00136	0.1087	0.5460	1.012	0.462	0.137	1.611
809	582430.50	4140962.25	0.00041	0.0333	0.1672	0.305	0.141	0.042	0.489
810	582436.19	4140710.75	0.00112	0.0894	0.4487	0.831	0.380	0.112	1.323
811	582438.25	4141349.25	0.00020	0.0162	0.0812	0.149	0.069	0.020	0.238
812	582443.06	4140735.25	0.00094	0.0752	0.3778	0.698	0.320	0.095	1.113
813	582444.44	4141011.00	0.00035	0.0287	0.1442	0.263	0.122	0.036	0.422
814	582450.00	4140759.50	0.00080	0.0647	0.3247	0.598	0.275	0.081	0.955
815	582456.94	4140784.00	0.00070	0.0564	0.2830	0.521	0.240	0.071	0.832
816	582458.31	4141060.00	0.00031	0.0252	0.1263	0.229	0.107	0.032	0.368
817	582466.06	4141447.00	0.00017	0.0138	0.0692	0.125	0.059	0.017	0.201
818	582470.75	4140832.75	0.00055	0.0445	0.2237	0.408	0.189	0.056	0.653
819	582472.25	4141109.00	0.00027	0.0223	0.1121	0.202	0.095	0.028	0.325
820	582484.56	4140881.50	0.00045	0.0366	0.1839	0.335	0.156	0.046	0.537
821	582484.81	4140609.25	0.00224	0.1809	0.9086	1.670	0.769	0.228	2.667
822	582491.62	4140633.50	0.00162	0.1303	0.6545	1.207	0.554	0.164	1.925
823	582493.88	4141545.00	0.00015	0.0119	0.0598	0.109	0.051	0.015	0.174
824	582498.38	4140657.50	0.00126	0.1011	0.5076	0.936	0.430	0.127	1.493
825	582498.38	4140930.25	0.00038	0.0310	0.1557	0.283	0.132	0.039	0.454
826	582500.00	4141206.75	0.00022	0.0181	0.0910	0.164	0.077	0.023	0.264
827	582505.19	4140681.50	0.00102	0.0819	0.4114	0.758	0.348	0.103	1.209
828	582512.00	4140705.75	0.00085	0.0684	0.3436	0.630	0.291	0.086	1.007
829	582512.19	4140979.00	0.00033	0.0268	0.1347	0.244	0.114	0.034	0.392
830	582518.81	4140729.75	0.00072	0.0586	0.2942	0.536	0.249	0.074	0.859
831	582525.62	4140754.00	0.00063	0.0510	0.2563	0.466	0.217	0.064	0.747
832	582526.00	4141027.75	0.00029	0.0236	0.1184	0.214	0.100	0.030	0.344
833	582527.81	4141304.75	0.00018	0.0152	0.0761	0.137	0.064	0.019	0.220
834	582539.19	4140802.25	0.00050	0.0405	0.2032	0.369	0.172	0.051	0.592
835	582539.81	4141076.50	0.00025	0.0210	0.1055	0.189	0.089	0.026	0.305
836	582552.81	4140850.50	0.00041	0.0335	0.1680	0.304	0.142	0.042	0.488
837	582555.62	4141402.50	0.00016	0.0130	0.0651	0.116	0.055	0.016	0.188
838	582556.19	4140586.50	0.00191	0.1550	0.7784	1.419	0.659	0.195	2.273
839	582563.00	4140610.50	0.00132	0.1075	0.5396	0.981	0.457	0.135	1.573
840	582566.44	4140898.75	0.00035	0.0285	0.1432	0.258	0.121	0.036	0.415
841	582569.75	4140634.50	0.00100	0.0819	0.4112	0.744	0.348	0.103	1.195
842	582576.56	4140658.75	0.00080	0.0661	0.3321	0.597	0.281	0.083	0.961
843	582580.06	4140947.00	0.00030	0.0248	0.1247	0.222	0.106	0.031	0.359
844	582583.31	4140682.75	0.00067	0.0557	0.2799	0.502	0.237	0.070	0.809
845	582583.44	4141500.25	0.00014	0.0112	0.0565	0.103	0.048	0.014	0.165
846	582590.06	4141163.25	0.00020	0.0168	0.0845	0.150	0.072	0.021	0.243
847	582590.12	4140706.75	0.00058	0.0483	0.2424	0.433	0.205	0.061	0.699
848	582593.88	4140995.75	0.00026	0.0220	0.1102	0.196	0.093	0.028	0.317
849	582596.88	4140730.75	0.00051	0.0427	0.2143	0.383	0.181	0.054	0.618
850	582607.69	4141044.50	0.00024	0.0197	0.0987	0.177	0.084	0.025	0.285
851	582610.50	4140779.00	0.00042	0.0347	0.1743	0.310	0.148	0.044	0.501
852	582617.69	4141260.75	0.00017	0.0142	0.0712	0.128	0.060	0.018	0.206
853	582624.00	4140827.00	0.00035	0.0293	0.1472	0.262	0.125	0.037	0.424
854	582628.38	4140566.25	0.00110	0.0935	0.4692	0.817	0.397	0.118	1.332
855	582635.19	4140590.25	0.00084	0.0713	0.3580	0.625	0.303	0.090	1.018
856	582637.62	4140875.25	0.00030	0.0254	0.1275	0.226	0.108	0.032	0.366
857	582641.94	4140614.25	0.00069	0.0586	0.2943	0.515	0.249	0.074	0.838
858	582645.31	4141358.25	0.00015	0.0122	0.0611	0.110	0.052	0.015	0.177
859	582648.75	4140638.25	0.00059	0.0502	0.2518	0.441	0.213	0.063	0.717
860	582651.19	4140923.25	0.00027	0.0224	0.1125	0.201	0.095	0.028	0.324
861	582655.50	4140662.50	0.00052	0.0440	0.2208	0.387	0.187	0.055	0.629
862	582662.31	4140686.50	0.00046	0.0393	0.1971	0.345	0.167	0.049	0.562
863	582664.75	4140971.50	0.00024	0.0200	0.1006	0.179	0.085	0.025	0.289
864	582669.06	4140710.50	0.00042	0.0355	0.1784	0.313	0.151	0.045	0.508
865	582672.94	4141455.75	0.00013	0.0106	0.0533	0.095	0.045	0.013	0.154
866	582678.31	4141019.50	0.00022	0.0181	0.0910	0.162	0.077	0.023	0.262
867	582681.50	4141123.00	0.00019	0.0155	0.0779	0.138	0.066	0.020	0.224
868	582682.62	4140758.75	0.00035	0.0299	0.1502	0.263	0.127	0.038	0.428
869	582696.25	4140806.75	0.00031	0.0259	0.1300	0.229	0.110	0.033	0.372

870	582708.69	4141219.50	0.00016	0.0132	0.0664	0.118	0.056	0.017	0.190
871	582709.75	4140855.00	0.00027	0.0228	0.1145	0.201	0.097	0.029	0.327
872	582723.38	4140903.00	0.00024	0.0204	0.1023	0.179	0.087	0.026	0.291
873	582735.88	4141316.00	0.00014	0.0115	0.0575	0.103	0.049	0.014	0.166
874	582736.94	4140951.25	0.00022	0.0184	0.0924	0.162	0.078	0.023	0.264
875	582750.50	4140999.25	0.00020	0.0168	0.0841	0.147	0.071	0.021	0.240
876	582763.44	4141413.25	0.00012	0.0100	0.0504	0.089	0.043	0.013	0.145
877	582777.62	4141095.50	0.00017	0.0142	0.0711	0.125	0.060	0.018	0.203
878	582804.75	4141191.75	0.00015	0.0122	0.0613	0.109	0.052	0.015	0.176
879	582831.88	4141288.00	0.00013	0.0107	0.0535	0.095	0.045	0.013	0.154
880	582859.00	4141384.25	0.00011	0.0094	0.0473	0.083	0.040	0.012	0.135
		Max	0.003056	0.2558	1.2845	**2.3**	**1.1**	**0.3**	**3.68**

North Bayshore Precise Plan, Redwood City, CA
Highway 101 Traffic Modeling
Vehicle PM2.5 and TOG TAC Concentrations

			2030						2030	
			Vehicle PM2.5 Concentration ($\mu g/m^3$) x 1,000 Meteorological Data Year					Average Concentration ($\mu g/m^3$)	Exhaust	Evaporative
Receptor No.	UTM-X	UTM-Y	1968	1969	1970	1971	1972	1968-1972	TOG (ug/m3)	TOG (ug/m3)
1	579327.31	4143065.25	313.59	292.34	253.97	214.99	283.39	0.2717	0.12768	0.64111
2	579336.75	4143092.5	196.26	194.05	169.7	121.86	171.7	0.1707	0.08024	0.40289
3	579346.19	4143120	146.99	149.9	130.26	88.63	126.99	0.1286	0.06042	0.30339
4	579355.62	4143147.5	119.7	123.81	107.03	71.71	102.98	0.1050	0.04937	0.24791
5	579376	4143008.25	430.67	382.08	324.64	339.55	404.62	0.3763	0.17687	0.88810
6	579385.44	4143035.5	271.53	245.91	209.94	198.16	249.2	0.2349	0.11043	0.55448
7	579394.88	4143063	188.37	176.54	152.39	126.76	168.82	0.1626	0.07641	0.38368
8	579404.31	4143090.5	142.23	138.32	120.07	89.9	125.09	0.1231	0.05787	0.29057
9	579413.75	4143118	115.27	115.17	99.84	70.33	100.14	0.1002	0.04707	0.23635
10	579423.19	4143145.25	97.96	99.6	85.97	58.82	84.47	0.0854	0.04012	0.20146
11	579424.69	4142951	491.95	433.05	367.89	404.17	468.09	0.4330	0.20352	1.02195
12	579432.62	4143172.75	85.58	88.06	75.64	51.05	73.5	0.0748	0.03514	0.17645
13	579434.12	4142978.5	326.11	289.58	244.33	256.73	305.46	0.2844	0.13369	0.67128
14	579443.56	4143006	233.55	209.84	177.47	174.6	215.51	0.2022	0.09503	0.47718
15	579451.5	4143227.75	68.88	71.84	61.33	40.89	58.84	0.0604	0.02837	0.14244
16	579453	4143033.5	175.92	161.06	137.29	124.14	159.66	0.1516	0.07126	0.35781
17	579462.5	4143061	138.06	129.72	111.43	92.17	123.29	0.1189	0.05590	0.28068
18	579471.94	4143088.25	112.95	109.01	94.02	72.1	99.59	0.0975	0.04584	0.23018
19	579473.44	4142894	525.77	461.35	392.92	439.54	503.88	0.4647	0.21841	1.09667
20	579481.38	4143115.75	95.62	94.35	81.46	59.09	83.42	0.0828	0.03891	0.19538
21	579482.88	4142921.5	359.57	317.6	267.82	292.19	339.95	0.3154	0.14825	0.74441
22	579492.31	4142949	265.85	236.16	198.28	209.16	248.69	0.2316	0.10887	0.54664
23	579500.25	4143170.75	74.29	75.42	64.78	44.44	63.86	0.0646	0.03034	0.15236
24	579501.75	4142976.5	205.23	183.69	154.37	155.4	189.98	0.1777	0.08353	0.41945
25	579511.19	4143003.75	163.23	147.85	124.88	118.46	149.38	0.1408	0.06616	0.33219
26	579519.12	4143225.5	61.41	63.47	54.06	36.4	52.38	0.0535	0.02517	0.12636
27	579520.62	4143031.25	132.72	122.28	103.99	92.15	119.91	0.1142	0.05368	0.26954
28	579522.12	4142837	548.23	480.15	409.72	462.92	528.16	0.4858	0.22834	1.14657
29	579530.06	4143058.75	110.47	103.83	88.84	73.55	98.51	0.0950	0.04467	0.22429
30	579531.56	4142864.5	381.68	336.24	283.9	315.5	363.12	0.3361	0.15796	0.79317
31	579538	4143280.5	52.5	54.87	46.49	31.04	44.66	0.0459	0.02158	0.10835
32	579541	4142892	287.47	254.31	213.3	232.31	270.92	0.2517	0.11828	0.59392
33	579548.94	4143113.5	82.1	80.24	69.04	51.24	71.76	0.0709	0.03331	0.16727
34	579550.44	4142919.5	226.21	200.99	168.03	178.04	211.5	0.1970	0.09257	0.46481
35	579559.88	4142946.75	182.98	163.55	136.76	139.75	169.77	0.1586	0.07452	0.37421
36	579567.81	4143168.5	65.91	66.22	56.83	39.7	56.75	0.0571	0.02683	0.13471
37	579569.31	4142974.25	150.63	135.79	113.94	111.24	138.5	0.1300	0.06111	0.30685
38	579570.81	4142780	563.64	492.95	421.32	479.09	545.13	0.5004	0.23520	1.18101
39	579578.75	4143001.75	126.08	114.93	96.98	89.83	114.7	0.1085	0.05100	0.25607
40	579580.25	4142807.5	397.41	349.59	295.69	331.79	379.79	0.3509	0.16490	0.82802
41	579586.69	4143223.5	55.53	56.82	48.44	32.96	47.35	0.0482	0.02266	0.11380
42	579589.75	4142835	303.07	267.66	224.67	248.63	287.01	0.2662	0.12512	0.62825
43	579597.62	4143056.5	92.59	87.02	74.24	61.49	82.38	0.0795	0.03739	0.18772
44	579599.19	4142862.25	241.9	214.24	178.9	194.76	227.44	0.2114	0.09938	0.49902
45	579605.56	4143278.25	48.16	49.91	42.28	28.44	40.89	0.0419	0.01971	0.09897
46	579608.62	4142889.75	197.89	175.81	146.46	155.96	184.95	0.1722	0.08094	0.40643
47	579616.5	4143111.5	72.16	70.11	60.12	45.33	63.09	0.0622	0.02922	0.14670
48	579618.06	4142917.25	164.81	147.02	122.55	126.71	153.05	0.1428	0.06713	0.33707
49	579619.56	4142723	574.76	502.2	429.64	490.93	557.65	0.5110	0.24019	1.20604
50	579624.5	4143333.25	42.56	44.49	37.53	25.08	36.04	0.0371	0.01746	0.08765
51	579627.5	4142944.75	139.28	124.93	104.48	104.09	128.3	0.1202	0.05650	0.28371
52	579629	4142750.5	408.89	359.3	304.26	343.84	392.17	0.3617	0.17000	0.85359
53	579635.44	4143166.25	59.43	59.2	50.77	36.04	51.25	0.0513	0.02413	0.12116
54	579638.44	4142778	314.52	277.22	233.12	260.73	299.05	0.2769	0.13016	0.65355
55	579643.38	4143388	38.18	40.14	33.8	22.47	32.28	0.0334	0.01569	0.07876
56	579646.38	4142999.5	103.22	94.32	79.66	72.61	93.37	0.0886	0.04166	0.20918
57	579647.88	4142805.25	253.37	223.79	187.23	206.91	239.28	0.2221	0.10439	0.52419
58	579654.31	4143221.25	50.85	51.53	44.01	30.27	43.39	0.0440	0.02068	0.10386
59	579657.31	4142832.75	209.58	185.59	154.7	168.28	196.78	0.1830	0.08600	0.43185
60	579665.25	4143054.5	79.95	75.04	63.92	53.04	70.97	0.0686	0.03223	0.16186
61	579666.75	4142860.25	176.4	156.66	130.34	139	164.76	0.1534	0.07211	0.36210
62	579668.25	4142666	583.49	509.14	436.2	500.42	567.93	0.5194	0.24413	1.22587
63	579673.19	4143276	44.59	45.78	38.88	26.32	37.81	0.0387	0.01818	0.09128
64	579676.19	4142887.75	150.47	133.99	111.53	116.13	139.72	0.1304	0.06127	0.30767
65	579677.69	4142693.5	417.62	366.26	310.83	353.31	402.22	0.3700	0.17392	0.87331
66	579684.12	4143109.25	64.54	62.37	53.38	40.79	56.46	0.0555	0.02609	0.13100
67	579687.12	4142720.75	324.17	285.16	240.34	270.84	309.53	0.2860	0.13442	0.67498
68	579692.06	4143331	39.7	41.2	34.81	23.36	33.58	0.0345	0.01623	0.08149
69	579695.06	4142942.5	113.13	101.66	85.17	83.19	103.56	0.0973	0.04575	0.22973
70	579696.56	4142748.25	262.88	231.75	194.27	216.83	249.21	0.2310	0.10856	0.54513
71	579703	4143164.25	54.16	53.57	45.91	33.08	46.79	0.0467	0.02195	0.11022
72	579706	4142775.75	219.06	193.55	161.53	178.29	206.51	0.1918	0.09014	0.45262
73	579713.94	4142997.5	88.03	80.54	68.07	61.37	79.24	0.0755	0.03546	0.17806
74	579715.44	4142803.25	185.79	164.47	136.86	149.05	174.34	0.1621	0.07619	0.38256
75	579717.06	4142609	590.74	515.05	441.45	508.16	576.39	0.5264	0.24739	1.24220

76	579721.88	4143219	46.95	47.22	40.38	28.07	40.12	0.0405	0.01906	0.09569
77	579724.88	4142830.5	159.89	141.75	117.83	126.2	149.28	0.1390	0.06533	0.32802
78	579726.44	4142636.5	424.72	372.09	316.28	360.74	410.13	0.3768	0.17709	0.88923
79	579729.81	4143440.75	32.67	34.32	28.84	19.14	27.54	0.0285	0.01340	0.06726
80	579732.81	4143052.25	70.71	66.31	56.44	46.87	62.65	0.0606	0.02848	0.14301
81	579735.88	4142663.75	331.92	291.64	246.22	278.78	317.76	0.2933	0.13783	0.69210
82	579740.75	4143274	41.52	42.32	36.04	24.55	35.25	0.0359	0.01689	0.08481
83	579743.75	4142885.5	121.82	108.57	90.38	92.49	112.46	0.1051	0.04942	0.24814
84	579745.31	4142691.25	270.66	238.31	200.1	224.8	257.24	0.2382	0.11196	0.56220
85	579751.69	4143107.25	58.48	56.24	48.1	37.12	51.16	0.0502	0.02360	0.11852
86	579754.75	4142718.75	226.83	200.06	167.25	186.3	214.36	0.1990	0.09351	0.46955
87	579762.69	4142940.5	95.69	86.19	72.24	69.49	87.14	0.0822	0.03861	0.19387
88	579764.19	4142746.25	193.67	171.05	142.56	157.19	182.17	0.1693	0.07958	0.39961
89	579765.88	4142552	599.8	522.33	448.09	517.75	586.59	0.5349	0.25141	1.26239
90	579770.56	4143162	49.87	49	41.99	30.64	43.14	0.0429	0.02018	0.10131
91	579773.62	4142773.5	167.81	148.35	123.41	134.43	157.12	0.1462	0.06873	0.34509
92	579775.31	4142579.5	433.72	379.06	322.87	369.57	419.74	0.3850	0.18095	0.90858
93	579781.56	4142995.25	77.1	70.62	59.71	53.41	69.18	0.0660	0.03102	0.15577
94	579784.75	4142607	339.35	297.51	251.9	286.05	325.67	0.3001	0.14105	0.70823
95	579789.5	4143217	43.57	43.55	37.29	26.19	37.38	0.0376	0.01767	0.08873
96	579792.5	4142828.5	129.42	114.73	95.33	100.52	120.11	0.1120	0.05265	0.26437
97	579794.12	4142634.25	277.67	243.91	205.6	231.68	264.62	0.2447	0.11501	0.57748
98	579794.75	4143364.75	34.21	35.36	29.9	20.04	28.86	0.0297	0.01395	0.07003
99	579800.44	4143050.25	63.51	59.5	50.64	42.05	56.21	0.0544	0.02556	0.12834
100	579803.56	4142661.75	233.63	205.49	172.55	193.03	221.35	0.2052	0.09645	0.48430
101	579811.38	4142883.25	102.62	91.51	76.33	76.81	94.22	0.0883	0.04150	0.20838
102	579812.94	4142689.25	200.51	176.64	147.79	163.97	189.02	0.1756	0.08253	0.41438
103	579814.75	4142495.25	609.88	531.12	457.36	526.02	597.04	0.5443	0.25581	1.28451
104	579819.31	4143105	53.6	51.37	43.91	34.12	46.89	0.0460	0.02161	0.10851
105	579822.38	4142716.5	174.59	153.98	128.46	141.24	163.8	0.1524	0.07163	0.35970
106	579824.19	4142522.5	442.14	386.33	330.12	377.25	428.71	0.3929	0.18467	0.92727
107	579830.25	4142938.25	83.14	74.97	62.98	59.72	75.38	0.0712	0.03348	0.16812
108	579832.5	4143474.5	28.79	30.15	25.27	16.76	24.2	0.0250	0.01177	0.05908
109	579833.56	4142550	346.47	303.36	257.86	292.75	333.2	0.3067	0.14416	0.72388
110	579838.19	4143160	46.24	45.22	38.75	28.55	40.08	0.0398	0.01869	0.09385
111	579841.19	4142771.5	135.98	120.13	99.91	107.31	126.6	0.1180	0.05545	0.27845
112	579843	4142577.5	284.47	249.57	211.11	238.07	271.61	0.2510	0.11795	0.59228
113	579849.12	4142993	68.71	62.98	53.31	47.31	61.47	0.0588	0.02762	0.13866
114	579852.38	4142604.75	240.45	211.47	178.08	199.37	228.23	0.2115	0.09941	0.49919
115	579859.69	4143288.75	36.02	36.44	31.11	21.29	30.64	0.0311	0.01462	0.07340
116	579860.06	4142826.25	108.9	96.58	80.41	83.37	100.55	0.0940	0.04416	0.22175
117	579861.81	4142632.25	206.91	182.26	152.89	170.03	195.42	0.1815	0.08531	0.42834
118	579866.62	4142441	599.37	522.36	450.34	513.86	585.6	0.5343	0.25112	1.26096
119	579868	4143048	57.76	54.04	46.01	38.18	51.06	0.0494	0.02322	0.11661
120	579870.25	4143584.25	24.84	26.23	21.88	14.36	20.81	0.0216	0.01016	0.05103
121	579871.25	4142659.75	180.54	159.11	133.12	147	169.71	0.1579	0.07421	0.37263
122	579875.38	4142468	440.2	384.94	329.91	374.04	426.5	0.3911	0.18383	0.92304
123	579878.94	4142881.25	88.84	79.37	66.38	65.61	81.16	0.0763	0.03585	0.18000
124	579884.12	4142494.75	350.53	307.33	261.85	295.47	337.07	0.3105	0.14591	0.73266
125	579886.88	4143103	49.42	47.25	40.39	31.52	43.26	0.0424	0.01991	0.09999
126	579890.06	4142714.5	141.86	125.17	104.26	113.14	132.37	0.1234	0.05798	0.29113
127	579892.88	4142521.5	290.86	255.42	216.48	243.33	277.88	0.2568	0.12069	0.60603
128	579897.44	4143398.5	30.01	30.93	26.09	17.48	25.27	0.0260	0.01220	0.06126
129	579897.81	4142936	73.71	66.61	56.07	52.41	66.54	0.0631	0.02964	0.14884
130	579901.62	4142548.25	247.45	217.49	183.61	205.52	235.09	0.2178	0.10238	0.51408
131	579908.88	4142769.25	114.53	101.35	84.29	89.06	106.14	0.0991	0.04656	0.23381
132	579910.62	4142575.25	214.08	188.34	158.45	176.47	202.38	0.1879	0.08833	0.44355
133	579916.69	4142991	62.03	56.96	48.25	42.43	55.34	0.0530	0.02491	0.12508
134	579919.56	4142388	599.18	523.34	450.46	511.89	584.42	0.5339	0.25091	1.25990
135	579920.06	4142602.75	187.28	164.93	138.32	153.13	176.25	0.1640	0.07707	0.38700
136	579924.62	4143212.75	38.29	37.87	32.46	23.16	32.97	0.0330	0.01549	0.07776
137	579927.69	4142824.25	94.07	83.62	69.72	70.99	86.43	0.0810	0.03805	0.19108
138	579927.88	4142414.25	443.42	388.23	332.56	375.26	429.1	0.3937	0.18505	0.92917
139	579935.25	4143508.25	25.67	26.83	22.42	14.84	21.53	0.0223	0.01046	0.05253
140	579935.56	4143045.75	52.97	49.59	42.21	34.96	46.8	0.0453	0.02129	0.10692
141	579936.56	4142441	351.78	308.73	263.29	295.42	338.05	0.3115	0.14638	0.73503
142	579938.88	4142657.5	147.9	130.46	108.85	118.78	138.21	0.1288	0.06055	0.30406
143	579945.31	4142468	291.11	255.92	217.39	242.9	278.12	0.2571	0.12083	0.60673
144	579946.56	4142879	78.41	70.25	58.86	57.23	71.36	0.0672	0.03159	0.15864
145	579954.06	4142494.75	248.06	218.32	184.81	205.66	235.75	0.2185	0.10270	0.51571
146	579957.75	4142712.5	119.82	105.85	88.1	94.22	111.29	0.1039	0.04881	0.24510
147	579962.44	4143322.5	31.42	31.77	27.02	18.45	26.68	0.0271	0.01272	0.06388
148	579962.81	4142521.5	215.73	190.02	160.27	177.71	204.01	0.1895	0.08909	0.44733
149	579965.44	4142934	66.24	60.03	50.59	46.67	59.61	0.0566	0.02662	0.13364
150	579971.56	4142548.25	190.34	167.79	141.03	155.74	179.22	0.1668	0.07841	0.39370
151	579973	4143618	22.38	23.65	19.62	12.83	18.72	0.0194	0.00914	0.04588
152	579974.56	4142337	589.81	514.95	443.32	501.52	573.72	0.5247	0.24659	1.23821
153	579976.56	4142767.25	98.83	87.57	72.9	75.83	91.21	0.0853	0.04008	0.20123
154	579982.88	4142363.25	435.65	381.57	327.11	366.92	420.64	0.3864	0.18160	0.91185
155	579984.31	4142988.75	56.62	52.13	44.17	38.54	50.45	0.0484	0.02274	0.11418

156	579989.06	4142602	152.14	134.27	112.18	122.7	142.28	0.1327	0.06238	0.31321
157	579989.56	4143136.5	41.21	39.79	34.01	25.8	35.88	0.0353	0.01661	0.08340
158	579991.19	4142389.75	347.49	305.01	260.46	290.57	333.33	0.3074	0.14446	0.72540
159	579995.38	4142822.25	82.73	73.72	61.55	61.66	75.72	0.0711	0.03341	0.16774
160	579999.5	4142416	290.16	255.27	217.03	241.18	276.8	0.2561	0.12036	0.60437
161	580000.19	4143432.25	26.66	27.43	23.08	15.43	22.41	0.0230	0.01081	0.05428
162	580006.56	4142655.5	124.8	110.32	91.83	98.94	116.13	0.1084	0.05095	0.25583
163	580007.88	4142442.5	248.18	218.81	185.28	205.11	235.65	0.2186	0.10274	0.51591
164	580014.19	4142877	70.17	63.06	52.89	50.69	63.62	0.0601	0.02824	0.14180
165	580016.19	4142468.75	216.52	191.1	161.3	177.97	204.7	0.1903	0.08945	0.44915
166	580024.5	4142495.25	191.46	169.03	142.26	156.53	180.28	0.1679	0.07892	0.39627
167	580025.38	4142710.5	103.51	91.68	76.22	80.35	95.78	0.0895	0.04207	0.21124
168	580027.38	4143246.25	33.13	32.89	28.03	19.85	28.43	0.0285	0.01338	0.06718
169	580030.31	4142286.75	584	510.4	438.91	494.95	566.49	0.5190	0.24391	1.22472
170	580033	4142931.75	60.17	54.71	46.13	42.09	54.03	0.0514	0.02417	0.12137
171	580037.94	4143542	23.1	24.13	20.08	13.24	19.32	0.0200	0.00939	0.04714
172	580038.5	4142313	431.7	378.15	323.85	362.5	415.85	0.3824	0.17973	0.90249
173	580041.5	4142548.25	154.13	136.18	113.97	124.52	144.17	0.1346	0.06326	0.31764
174	580044.25	4142765.25	87.07	77.39	64.4	65.96	80.04	0.0750	0.03524	0.17693
175	580046.69	4142339.25	344.47	302.47	258.08	287.15	329.85	0.3044	0.14307	0.71839
176	580054.5	4143060.5	44.71	42.16	35.85	29.06	39.32	0.0382	0.01796	0.09020
177	580054.88	4142365.5	287.43	253.07	215.09	238.17	273.9	0.2535	0.11916	0.59834
178	580059	4142602	127.28	112.65	93.77	101.37	118.49	0.1107	0.05203	0.26128
179	580063	4142391.75	246.69	217.55	184.32	203.27	233.98	0.2172	0.10207	0.51250
180	580063.06	4142820	74.03	66.19	55.25	54.59	67.51	0.0635	0.02985	0.14989
181	580065.12	4143356.25	27.79	28.13	23.83	16.21	23.54	0.0239	0.01123	0.05640
182	580071.19	4142417.75	215.88	190.6	161	176.97	203.88	0.1897	0.08914	0.44761
183	580076.5	4142655.5	106.77	94.67	78.61	83.57	98.96	0.0925	0.04348	0.21834
184	580079.5	4142444.25	191.21	168.96	142.28	155.97	179.9	0.1677	0.07880	0.39569
185	580081.88	4142875	63.56	57.35	48.07	45.55	57.5	0.0544	0.02557	0.12840
186	580086.25	4142236.75	584.13	510.56	437.85	495.49	566.31	0.5189	0.24387	1.22453
187	580092.31	4143170.25	35.33	34.39	29.22	21.78	30.61	0.0303	0.01423	0.07143
188	580094	4142709.25	90.61	80.5	66.85	69.47	83.55	0.0782	0.03675	0.18454
189	580094.44	4142263	431.17	377.61	322.57	362.21	415.17	0.3817	0.17942	0.90092
190	580096.12	4142497	154.78	136.92	114.65	124.99	144.76	0.1352	0.06355	0.31912
191	580102.56	4142289.25	344.01	301.98	257.12	286.75	329.38	0.3038	0.14281	0.71708
192	580102.88	4143466	23.93	24.64	20.64	13.75	20.07	0.0206	0.00968	0.04863
193	580110.75	4142315.5	286.99	252.48	214.27	237.67	273.41	0.2530	0.11889	0.59700
194	580111.88	4142763.25	77.64	69.23	57.58	58.18	71.11	0.0667	0.03137	0.15753
195	580112.81	4142549.75	128.64	113.94	94.93	102.66	119.74	0.1120	0.05263	0.26428
196	580118.94	4142341.75	246.04	216.9	183.54	202.58	233.31	0.2165	0.10174	0.51088
197	580119.5	4142984.5	48.3	44.66	37.74	32.57	42.9	0.0412	0.01938	0.09731
198	580127.12	4142368	215.15	189.99	160.3	176.25	203.15	0.1890	0.08881	0.44596
199	580129.44	4142602.5	108.74	96.46	80.09	85.54	100.81	0.0943	0.04433	0.22261
200	580130.06	4143280	29.14	29.05	24.64	17.31	24.91	0.0250	0.01175	0.05902
201	580130.75	4142818	66.91	60.06	50.1	48.9	60.87	0.0574	0.02696	0.13539
202	580135.31	4142394	191.07	168.89	142.11	155.78	179.73	0.1675	0.07873	0.39534
203	580142.12	4142186.75	583.92	510.66	437.57	495.3	565.55	0.5186	0.24374	1.22390
204	580146.44	4142655.5	92.97	82.62	68.5	71.9	85.84	0.0804	0.03777	0.18966
205	580150.31	4142213	430.77	377.4	322.02	361.98	414.48	0.3813	0.17923	0.89994
206	580151.69	4142446.5	154.96	137.2	114.84	125.09	144.9	0.1354	0.06364	0.31954
207	580157.25	4143094.25	37.96	36.18	30.59	24.19	33.19	0.0324	0.01524	0.07652
208	580158.5	4142239.25	343.43	301.4	256.31	286.3	328.57	0.3032	0.14250	0.71556
209	580163.94	4142709.25	80.1	71.38	59.2	60.73	73.58	0.0690	0.03243	0.16284
210	580166.69	4142265.5	286.26	251.82	213.42	237.02	272.53	0.2522	0.11854	0.59522
211	580167.81	4143389.75	24.86	25.23	21.24	14.4	21	0.0213	0.01003	0.05038
212	580168.06	4142499	129.21	114.6	95.46	103.21	120.31	0.1126	0.05290	0.26564
213	580174.88	4142291.75	245.67	216.54	182.95	202.28	232.91	0.2161	0.10155	0.50993
214	580181.44	4142762.75	69.61	62.32	51.78	51.64	63.59	0.0598	0.02810	0.14110
215	580183.06	4142318	214.9	189.66	159.85	176	202.91	0.1887	0.08867	0.44525
216	580184.44	4142551.5	109.79	97.45	80.9	86.64	101.84	0.0953	0.04480	0.22496
217	580184.62	4142908.75	51.89	47.32	39.66	36.14	46.52	0.0443	0.02082	0.10456
218	580191.25	4142344	190.86	168.62	141.8	155.54	179.54	0.1673	0.07862	0.39476
219	580195	4143204	30.85	30.24	25.57	18.78	26.61	0.0264	0.01241	0.06233
220	580198.06	4142136.75	584.37	511.18	437.8	495.81	565.58	0.5189	0.24391	1.22472
221	580201.06	4142604.25	94.38	83.88	69.48	73.41	87.22	0.0817	0.03839	0.19275
222	580206.25	4142163	431	377.74	322.03	362.33	414.43	0.3815	0.17931	0.90035
223	580207.62	4142396.5	154.98	137.23	114.87	125.09	144.92	0.1354	0.06365	0.31959
224	580214.44	4142189.25	343.97	301.91	256.43	287.02	328.98	0.3037	0.14272	0.71664
225	580217.75	4142657	81.85	72.91	60.34	62.6	75.32	0.0706	0.03318	0.16663
226	580222.31	4143018.25	40.76	38.14	32.04	26.87	35.98	0.0348	0.01634	0.08203
227	580222.62	4142215.5	286.96	252.29	213.54	237.88	273.19	0.2528	0.11880	0.59654
228	580223.94	4142449	129.56	114.96	95.77	103.57	120.63	0.1129	0.05306	0.26644
229	580230.81	4142241.75	246	216.62	182.86	202.69	233.2	0.2163	0.10165	0.51041
230	580232.75	4143313.75	25.94	25.99	21.89	15.29	22.1	0.0222	0.01045	0.05249
231	580234.38	4142709.75	71.53	63.96	52.97	53.7	65.55	0.0615	0.02892	0.14524
232	580239	4142268	215.03	189.61	159.71	176.17	203.02	0.1887	0.08869	0.44535
233	580240.31	4142501.5	110.43	98.07	81.4	87.34	102.47	0.0959	0.04509	0.22642
234	580247.19	4142294.25	190.79	168.46	141.57	155.52	179.48	0.1672	0.07857	0.39451
235	580251.38	4142834.25	55.05	49.79	41.47	39.34	49.74	0.0471	0.02213	0.11110

236	580254	4142086.75	585.39	512.15	438.41	496.89	566.35	0.5198	0.24432	1.22682
237	580256.69	4142553.75	95.36	84.78	70.18	74.48	88.2	0.0826	0.03882	0.19494
238	580259.94	4143128	32.88	31.63	26.62	20.62	28.6	0.0281	0.01319	0.06625
239	580262.19	4142113	432.11	378.75	322.63	363.56	415.36	0.3825	0.17977	0.90266
240	580263.5	4142346.5	155.36	137.52	115.05	125.5	145.31	0.1357	0.06380	0.32037
241	580270.38	4142139.25	344.95	302.78	256.89	288.14	329.85	0.3045	0.14313	0.71867
242	580273.06	4142606.25	83.06	73.97	61.14	63.94	76.54	0.0717	0.03371	0.16928
243	580278.56	4142165.5	287.8	253.04	213.92	238.91	274	0.2535	0.11916	0.59834
244	580279.88	4142399	130.1	115.4	96.12	104.12	121.16	0.1134	0.05329	0.26758
245	580286.75	4142191.75	246.88	217.37	183.24	203.78	234.13	0.2171	0.10203	0.51231
246	580287.44	4142942.5	43.55	40.13	33.51	29.6	38.75	0.0371	0.01744	0.08757
247	580289.44	4142658.75	72.88	65.11	53.78	55.21	66.93	0.0628	0.02951	0.14817
248	580294.88	4142218	215.96	190.34	160.09	177.31	204.05	0.1896	0.08909	0.44734
249	580296.25	4142451.5	110.88	98.55	81.78	87.84	102.93	0.0964	0.04531	0.22749
250	580297.69	4143237.75	27.29	26.93	22.62	16.44	23.45	0.0233	0.01097	0.05510
251	580303.06	4142244.25	191.64	169.07	141.9	156.54	180.4	0.1679	0.07892	0.39627
252	580309.94	4142037	584.68	511.57	437.75	496.43	565.47	0.5192	0.24401	1.22526
253	580312.62	4142504	95.89	85.33	70.59	75.1	88.74	0.0831	0.03907	0.19619
254	580318.06	4142063	433.03	379.59	323.21	364.53	416.09	0.3833	0.18015	0.90456
255	580319.44	4142296.5	155.88	137.86	115.24	126.12	145.87	0.1362	0.06401	0.32142
256	580322.69	4142764.25	57.19	51.51	42.65	41.67	52	0.0490	0.02303	0.11565
257	580325.06	4143052.25	35.04	33.12	27.72	22.66	30.74	0.0299	0.01403	0.07046
258	580326.25	4142089.25	345.75	303.51	257.38	289.01	330.5	0.3052	0.14346	0.72034
259	580329	4142556.25	83.9	74.74	61.7	64.89	77.4	0.0725	0.03409	0.17116
260	580334.44	4142115.5	288.65	253.79	214.4	239.83	274.76	0.2543	0.11951	0.60011
261	580335.81	4142349	130.47	115.73	96.33	104.58	121.57	0.1137	0.05346	0.26842
262	580342.62	4142141.75	247.8	218.15	183.72	204.8	235.04	0.2179	0.10241	0.51425
263	580345.31	4142608.75	73.9	65.98	54.39	56.35	67.98	0.0637	0.02995	0.15038
264	580350.81	4142168	216.85	191.07	160.5	178.33	204.97	0.1903	0.08946	0.44921
265	580352.19	4142401.5	111.5	99.08	82.16	88.54	103.55	0.0970	0.04557	0.22884
266	580356.31	4142870	45.81	41.81	34.69	31.93	41.09	0.0391	0.01836	0.09220
267	580359	4142194.25	192.45	169.7	142.24	157.52	181.27	0.1686	0.07926	0.39798
268	580362.75	4143161.75	28.87	28.01	23.43	17.87	25.01	0.0246	0.01158	0.05815
269	580365.81	4141987	585.85	512.66	438.55	497.64	566.51	0.5202	0.24451	1.22777
270	580368.56	4142454	96.6	85.96	71.05	75.92	89.47	0.0838	0.03939	0.19777
271	580374	4142013.25	433.06	379.67	323.12	364.77	416.06	0.3833	0.18017	0.90467
272	580375.38	4142246.5	156.57	138.37	115.5	126.97	146.62	0.1368	0.06430	0.32286
273	580382.19	4142039.25	346.56	304.26	257.87	289.94	331.27	0.3060	0.14381	0.72211
274	580384.88	4142506.25	84.6	75.39	62.16	65.7	78.12	0.0732	0.03440	0.17274
275	580390.38	4142065.5	289.35	254.44	214.82	240.65	275.43	0.2549	0.11982	0.60165
276	580391.31	4142977.25	37.17	34.6	28.8	24.74	32.86	0.0316	0.01487	0.07466
277	580391.75	4142299	131.13	116.22	96.61	105.41	122.29	0.1143	0.05374	0.26982
278	580396.69	4142697	58.7	52.75	43.44	43.38	53.6	0.0504	0.02368	0.11888
279	580398.56	4142091.75	248.43	218.74	184.12	205.52	235.63	0.2185	0.10269	0.51563
280	580401.25	4142558.75	74.65	66.7	54.88	57.24	68.78	0.0645	0.03029	0.15210
281	580406.75	4142118	217.48	191.68	160.92	179.03	205.62	0.1909	0.08974	0.45063
282	580408.06	4142351.5	112.12	99.58	82.48	89.3	104.22	0.0975	0.04584	0.23019
283	580414.94	4142144.25	193.17	170.4	142.72	158.29	182.07	0.1693	0.07959	0.39962
284	580421.75	4141937	586.65	513.4	439.05	498.49	567.2	0.5210	0.24485	1.22946
285	580424.44	4142404	97.27	86.53	71.46	76.71	90.17	0.0844	0.03968	0.19925
286	580427.88	4143086	30.58	29.18	24.3	19.46	26.69	0.0260	0.01224	0.06146
287	580429.44	4142801.75	47.36	43	35.46	33.68	42.77	0.0405	0.01901	0.09547
288	580429.94	4141963.25	433.82	380.37	323.57	365.62	416.72	0.3840	0.18049	0.90629
289	580431.31	4142196.75	157.31	139.03	115.92	127.81	147.44	0.1375	0.06463	0.32450
290	580438.12	4141989.25	347.28	304.93	258.28	290.79	331.91	0.3066	0.14412	0.72367
291	580440.81	4142456.25	85.34	76.04	62.63	66.59	78.9	0.0739	0.03473	0.17440
292	580446.31	4142015.5	290.08	255.09	215.22	241.52	276.11	0.2556	0.12013	0.60323
293	580447.62	4142249	131.96	116.89	97.06	106.33	123.18	0.1151	0.05409	0.27160
294	580454.5	4142041.75	249.17	219.4	184.51	206.42	236.39	0.2192	0.10301	0.51726
295	580457.19	4142508.75	75.43	67.36	55.35	58.16	69.59	0.0652	0.03063	0.15382
296	580462.62	4142907.25	38.8	35.74	29.58	26.46	34.58	0.0330	0.01553	0.07796
297	580462.69	4142068	218.25	192.34	161.32	179.96	206.43	0.1917	0.09008	0.45232
298	580464	4142301.5	112.81	100.11	82.85	90.12	104.97	0.0982	0.04614	0.23169
299	580470.88	4142094.25	193.94	171.05	143.13	159.22	182.87	0.1700	0.07992	0.40130
300	580471.25	4142630.25	59.87	53.77	44.07	44.74	54.84	0.0515	0.02419	0.12144
301	580477.69	4141887	587.46	514.13	439.57	499.34	567.92	0.5217	0.24519	1.23117
302	580480.38	4142354	97.91	87.02	71.8	77.5	90.86	0.0850	0.03996	0.20064
303	580485.88	4141913.25	434.66	381.15	324.14	366.5	417.47	0.3848	0.18085	0.90809
304	580487.19	4142146.75	158.06	139.66	116.34	128.69	148.29	0.1382	0.06496	0.32617
305	580494.06	4141939.5	347.56	305.23	258.42	291.19	332.14	0.3069	0.14425	0.72430
306	580496.25	4143013	32.17	30.26	25.06	21.02	28.27	0.0274	0.01286	0.06456
307	580496.75	4142406.5	85.97	76.54	62.97	67.35	79.57	0.0745	0.03501	0.17577
308	580502.25	4141965.5	290.73	255.73	215.61	242.29	276.74	0.2562	0.12042	0.60468
309	580503.56	4142199	132.7	117.53	97.46	107.13	123.98	0.1158	0.05441	0.27319
310	580504	4142735.25	48.56	43.92	36.02	35.07	44.06	0.0415	0.01952	0.09800
311	580510.44	4141991.75	249.66	219.87	184.73	207.11	236.88	0.2197	0.10324	0.51837
312	580513.12	4142458.75	76.16	67.96	55.78	59.03	70.36	0.0659	0.03095	0.15542
313	580518.56	4142018	218.64	192.7	161.43	180.6	206.83	0.1920	0.09026	0.45321
314	580519.94	4142251.5	113.59	100.79	83.28	90.97	105.8	0.0989	0.04648	0.23337
315	580526.75	4142044.25	194.29	171.34	143.19	159.84	183.27	0.1704	0.08008	0.40211

316	580533.62	4141837	587.89	514.53	439.75	499.89	568.39	0.5221	0.24538	1.23213
317	580536.31	4142304	98.66	87.66	72.22	78.34	91.66	0.08571	0.04028	0.20227
318	580536.75	4142840	39.99	36.59	30.1	27.82	35.86	0.0341	0.01601	0.08041
319	580541.75	4141863.25	435.4	381.83	324.57	367.33	418.22	0.3855	0.18117	0.90971
320	580543.12	4142096.75	158.52	140.05	116.51	129.38	148.82	0.1387	0.06517	0.32723
321	580545.81	4142563.75	60.89	54.59	44.63	45.97	55.93	0.0524	0.02463	0.12367
322	580549.94	4141889.5	348.38	306	258.94	292.09	332.91	0.3077	0.14460	0.72609
323	580552.69	4142356.5	86.63	77.08	63.35	68.14	80.28	0.0751	0.03530	0.17723
324	580558.12	4141915.75	291.26	256.27	215.95	242.91	277.24	0.2567	0.12066	0.60587
325	580559.5	4142149	133.25	118	97.69	107.9	124.63	0.1163	0.05466	0.27445
326	580566.31	4141941.75	250.55	220.75	185.36	208.01	237.76	0.2205	0.10363	0.52035
327	580569	4142408.75	76.8	68.46	56.15	59.81	71.05	0.0665	0.03123	0.15683
328	580569.44	4142945	33.35	31.02	25.57	22.3	29.53	0.0284	0.01333	0.06692
329	580574.5	4141968	219.41	193.51	161.97	181.41	207.61	0.1928	0.09061	0.45497
330	580575.88	4142201.5	114.19	101.28	83.55	91.68	106.44	0.0994	0.04673	0.23465
331	580578.56	4142668.5	49.63	44.77	36.54	36.33	45.21	0.0425	0.01997	0.10029
332	580582.69	4141994.25	194.92	172.04	143.6	160.56	183.93	0.1710	0.08037	0.40358
333	580589.5	4141787	589.06	515.6	440.59	500.93	569.49	0.5231	0.24587	1.23460
334	580592.25	4142254	99.28	88.2	72.53	79.05	92.31	0.0863	0.04055	0.20361
335	580597.69	4141813.25	436.14	382.55	325.06	368.04	418.94	0.3861	0.18149	0.91130
336	580599.06	4142046.75	158.93	140.48	116.66	130.02	149.29	0.1391	0.06537	0.32822
337	580605.88	4141839.5	348.89	306.55	259.19	292.7	333.49	0.3082	0.14484	0.72727
338	580608.56	4142306.5	87.31	77.66	63.71	68.92	80.97	0.0757	0.03559	0.17869
339	580611.31	4142773.5	41.01	37.31	30.54	29.02	36.97	0.0350	0.01644	0.08253
340	580614.06	4141865.75	291.61	256.68	216.03	243.49	277.69	0.2571	0.12084	0.60676
341	580615.44	4142099.25	133.6	118.3	97.82	108.49	125.06	0.1167	0.05483	0.27530
342	580620.38	4142497	61.87	55.33	45.17	47.13	56.96	0.0533	0.02505	0.12577
343	580622.25	4141891.75	250.92	221.17	185.47	208.66	238.17	0.2209	0.10381	0.52127
344	580624.94	4142358.75	77.48	69.04	56.51	60.61	71.75	0.0671	0.03153	0.15830
345	580630.44	4141918	219.93	194.03	162.24	182.18	208.19	0.1933	0.09086	0.45622
346	580631.75	4142151.5	114.71	101.72	83.84	92.42	107.05	0.0999	0.04698	0.23588
347	580638.62	4141944.25	195.62	172.72	144.03	161.44	184.71	0.1717	0.08070	0.40522
348	580644	4142878.25	34.31	31.64	25.95	23.41	30.55	0.0292	0.01371	0.06885
349	580645.44	4141737	589.87	516.57	441.13	501.63	570.29	0.5239	0.24623	1.23640
350	580648.12	4142204	99.85	88.66	72.85	79.77	92.94	0.0868	0.04080	0.20488
351	580653.12	4142602	50.62	45.53	37.03	37.5	46.27	0.0434	0.02039	0.10240
352	580653.62	4141763.25	436.26	382.81	324.92	368.42	419.16	0.3863	0.18157	0.91170
353	580655	4141996.75	159.62	141.13	117.09	130.82	150.05	0.1397	0.06568	0.32979
354	580661.81	4141789.5	348.89	306.56	258.97	293.08	333.59	0.3082	0.14486	0.72739
355	580664.5	4142256.5	87.88	78.13	64.03	69.61	81.59	0.0762	0.03584	0.17995
356	580670	4141815.75	291.89	256.99	216.11	244.03	278.02	0.2574	0.12098	0.60748
357	580671.31	4142049.25	134.2	118.84	98.15	109.26	125.76	0.1172	0.05510	0.27669
358	580678.19	4141842	251.07	221.45	185.46	209.06	238.4	0.2211	0.10391	0.52177
359	580680.88	4142309	78.05	69.5	56.82	61.26	72.34	0.0676	0.03177	0.15952
360	580685.88	4142706.75	41.96	38.01	30.97	30.13	37.96	0.0358	0.01683	0.08450
361	580686.38	4141868	220.36	194.57	162.42	182.83	208.68	0.1938	0.09107	0.45730
362	580687.69	4142101.5	115.22	102.13	84.08	93.15	107.69	0.1005	0.04721	0.23707
363	580694.56	4141894.25	196.03	173.18	144.19	162.09	185.17	0.1721	0.08090	0.40623
364	580694.94	4142430.5	62.7	56.01	45.62	48.13	57.83	0.0541	0.02541	0.12758
365	580701.38	4141687	589.6	516.36	440.55	501.82	570.18	0.5237	0.24614	1.23594
366	580704.06	4142154	100.36	89.01	73.1	80.51	93.52	0.0873	0.04103	0.20603
367	580709.56	4141713.25	436.7	383.29	325.06	369.04	419.61	0.3867	0.18177	0.91271
368	580710.88	4141946.75	160.17	141.68	117.39	131.61	150.75	0.1403	0.06595	0.33116
369	580717.75	4141739.5	349.87	307.6	259.68	293.95	334.52	0.3091	0.14529	0.72953
370	580718.56	4142811.75	35.18	32.21	26.31	24.44	31.49	0.0299	0.01407	0.07063
371	580720.44	4142206.5	88.42	78.5	64.31	70.3	82.21	0.0767	0.03607	0.18113
372	580725.94	4141765.75	292.64	257.69	216.63	244.78	278.81	0.2581	0.12131	0.60914
373	580727.25	4141999.25	134.84	119.43	98.51	110.02	126.5	0.1179	0.05539	0.27815
374	580727.69	4142535.25	51.49	46.17	37.47	38.54	47.16	0.0442	0.02076	0.10423
375	580734.06	4141792	251.46	221.6	185.67	209.63	238.91	0.2215	0.10408	0.52263
376	580736.81	4142259	78.64	69.93	57.14	61.98	72.96	0.0681	0.03202	0.16079
377	580742.25	4141818.25	220.37	194.36	162.33	183.14	208.87	0.1938	0.09109	0.45740
378	580743.62	4142051.75	115.81	102.64	84.39	93.89	108.39	0.1010	0.04748	0.23842
379	580750.44	4141844.25	196.23	173.19	144.24	162.58	185.56	0.1724	0.08101	0.40677
380	580757.31	4141637	589.79	516.46	440.57	502.14	570.46	0.5239	0.24623	1.23637
381	580760	4142104	100.95	89.46	73.38	81.28	94.25	0.0879	0.04130	0.20736
382	580760.44	4142640.25	42.84	38.65	31.39	31.17	38.9	0.0366	0.01720	0.08635
383	580765.5	4141663.25	436.9	383.37	325.1	369.39	419.94	0.3869	0.18186	0.91318
384	580766.81	4141896.75	160.53	141.93	117.55	132.19	151.17	0.1407	0.06612	0.33199
385	580769.5	4142363.75	63.53	56.64	46.08	49.11	58.66	0.0548	0.02576	0.12934
386	580773.62	4141689.5	349.95	307.61	259.58	294.35	334.76	0.3093	0.14535	0.72983
387	580776.38	4142156.5	89	78.89	64.58	71.1	82.87	0.0773	0.03633	0.18240
388	580781.81	4141715.75	292.84	257.9	216.65	245.27	279.14	0.2584	0.12143	0.60973
389	580783.19	4141949.25	135.29	119.8	98.74	110.72	127.07	0.1183	0.05561	0.27924
390	580790	4141742	251.94	222.19	185.96	210.26	239.5	0.2220	0.10433	0.52385
391	580792.75	4142209	79.19	70.28	57.4	62.76	73.59	0.0686	0.03226	0.16200
392	580793.12	4142745	36.01	32.78	26.66	25.41	32.36	0.0306	0.01440	0.07232
393	580798.19	4141768.25	220.97	195.07	162.72	183.83	209.56	0.1944	0.09138	0.45885
394	580799.56	4142001.75	116.34	103.09	84.66	94.61	109	0.1015	0.04772	0.23963
395	580802.25	4142468.75	52.32	46.78	37.91	39.54	48.03	0.0449	0.02111	0.10600

396	580806.38	4141794.25	196.78	173.83	144.59	163.25	186.19	0.1729	0.08128	0.40811
397	580813.25	4141587.25	590.18	516.67	440.63	502.21	570.68	0.5241	0.24631	1.23681
398	580815.94	4142054	101.59	89.99	73.74	82.06	94.95	0.0885	0.04158	0.20878
399	580821.44	4141613.25	437.78	384.36	325.87	369.84	420.72	0.3877	0.18223	0.91501
400	580822.75	4141846.75	160.88	142.27	117.72	132.77	151.69	0.1411	0.06630	0.33292
401	580829.62	4141639.5	350.52	308.36	260	294.75	335.34	0.3098	0.14560	0.73111
402	580832.25	4142106.5	89.68	79.45	64.96	71.92	83.6	0.0779	0.03662	0.18390
403	580835	4142573.5	43.66	39.23	31.78	32.17	39.78	0.0373	0.01754	0.08808
404	580837.75	4141665.75	293.34	258.56	216.88	245.83	279.71	0.2589	0.12167	0.61092
405	580839.12	4141899.25	135.66	120.12	98.92	111.31	127.52	0.1187	0.05579	0.28015
406	580844.06	4142297.25	64.33	57.19	46.48	50.09	59.49	0.0555	0.02609	0.13102
407	580845.94	4141692	252.21	222.64	185.98	210.76	239.87	0.2223	0.10448	0.52461
408	580848.62	4142159	79.87	70.8	57.77	63.57	74.31	0.0693	0.03255	0.16346
409	580854.12	4141718.25	221.18	195.39	162.72	184.34	209.87	0.1947	0.09151	0.45949
410	580855.5	4141951.75	116.87	103.56	84.97	95.31	109.59	0.1021	0.04797	0.24086
411	580862.31	4141744.5	196.89	173.98	144.54	163.66	186.43	0.1731	0.08136	0.40852
412	580867.69	4142678.25	36.79	33.31	27	26.35	33.19	0.0313	0.01472	0.07393
413	580869.19	4141537.25	591.65	518.56	441.52	503.68	572.39	0.5256	0.24701	1.24032
414	580871.81	4142004	102.25	90.62	74.15	82.84	95.66	0.0891	0.04188	0.21029
415	580876.81	4142402	53.16	47.42	38.34	40.52	48.88	0.0457	0.02146	0.10777
416	580877.38	4141563.5	437.69	384.52	325.19	370.33	420.96	0.3877	0.18224	0.91506
417	580878.69	4141796.75	161.29	142.63	117.95	133.35	152.16	0.1415	0.06649	0.33388
418	580885.56	4141589.5	350.01	307.94	259.22	294.87	335.2	0.3094	0.14544	0.73030
419	580888.19	4142056.5	90.34	80.01	65.36	72.7	84.31	0.0785	0.03692	0.18536
420	580893.75	4141615.75	292.72	258.08	216.3	245.7	279.39	0.2584	0.12147	0.60991
421	580895	4141849.25	136.08	120.44	99.15	111.93	128.06	0.1191	0.05599	0.28115
422	580901.94	4141642	252.21	222.72	185.95	211.01	240.09	0.2224	0.10453	0.52485
423	580904.56	4142109	80.53	71.33	58.16	64.34	75.01	0.0699	0.03284	0.16490
424	580909.56	4142506.75	44.48	39.82	32.19	33.14	40.62	0.0381	0.01788	0.08980
425	580910.06	4141668.25	221.52	195.8	162.91	184.86	210.41	0.1951	0.09170	0.46044
426	580911.38	4141901.75	117.32	103.87	85.21	95.95	110.11	0.1025	0.04817	0.24188
427	580918.25	4141694.5	197.3	174.44	144.76	164.26	186.98	0.1735	0.08157	0.40957
428	580918.62	4142230.5	65.2	57.81	46.95	51.13	60.4	0.0563	0.02646	0.13286
429	580925.12	4141487.25	592.03	518.88	441.18	504.59	573.13	0.5260	0.24720	1.24127
430	580927.75	4141954.25	102.67	90.89	74.37	83.46	96.12	0.0895	0.04207	0.21122
431	580933.31	4141513.5	438.14	384.78	325.11	371.27	421.77	0.3882	0.18246	0.91619
432	580934.62	4141747	161.64	142.97	118.11	133.92	152.67	0.1419	0.06668	0.33479
433	580941.5	4141539.75	350.76	308.62	259.39	295.9	336.18	0.3102	0.14578	0.73200
434	580942.25	4142611.75	37.56	33.84	27.36	27.27	34.02	0.0320	0.01504	0.07554
435	580944.12	4142006.5	90.92	80.47	65.7	73.39	84.93	0.0791	0.03717	0.18663
436	580949.69	4141566	293.36	258.61	216.39	246.59	280.24	0.2590	0.12175	0.61133
437	580951	4141799.25	136.63	120.89	99.51	112.61	128.68	0.1197	0.05624	0.28241
438	580951.38	4142335.25	53.99	48	38.78	41.5	49.73	0.0464	0.02181	0.10950
439	580957.88	4141592	252.57	222.95	185.91	211.73	240.7	0.2228	0.10470	0.52574
440	580960.5	4142059	81.18	71.81	58.57	65.08	75.67	0.0705	0.03312	0.16629
441	580966.06	4141618.25	221.64	195.75	162.79	185.39	210.78	0.1953	0.09178	0.46084
442	580967.31	4141851.75	117.91	104.32	85.61	96.61	110.76	0.1030	0.04843	0.24318
443	580974.25	4141644.5	197.56	174.48	144.81	164.88	187.5	0.1738	0.08171	0.41028
444	580981	4141437.25	591.98	519.13	440.99	504.74	573.49	0.5261	0.24725	1.24152
445	580983.69	4141904.25	103.27	91.34	74.78	84.12	96.78	0.0901	0.04233	0.21254
446	580984.12	4142440.25	45.27	40.41	32.58	34.05	41.44	0.0388	0.01821	0.09145
447	580989.25	4141463.5	437.57	384.58	324.32	371.3	421.7	0.3879	0.18231	0.91543
448	580990.56	4141697	162.05	143.16	118.33	134.57	153.23	0.1423	0.06687	0.33575
449	580993.19	4142163.75	66.07	58.45	47.48	52.11	61.3	0.0571	0.02683	0.13471
450	580997.44	4141489.75	349.98	307.96	258.49	295.91	335.89	0.3096	0.14553	0.73076
451	581000.06	4141956.5	91.52	80.91	66.1	74.09	85.54	0.0796	0.03743	0.18793
452	581005.62	4141516	293.13	258.35	216.01	247	280.4	0.2590	0.12172	0.61119
453	581006.94	4141749.25	137.13	121.17	99.8	113.29	129.29	0.1201	0.05646	0.28352
454	581013.81	4141542.25	252.7	223.03	185.86	212.3	241.11	0.2230	0.10481	0.52628
455	581016.44	4142009	81.79	72.31	58.96	65.76	76.29	0.0710	0.03338	0.16761
456	581016.81	4142545	38.33	34.4	27.72	28.15	34.82	0.0327	0.01536	0.07713
457	581022	4141568.25	222.31	196.32	163.17	186.27	211.61	0.1959	0.09209	0.46241
458	581023.25	4141801.75	118.42	104.61	85.92	97.3	111.36	0.1035	0.04866	0.24431
459	581025.94	4142268.75	54.75	48.51	39.2	42.39	50.53	0.0471	0.02213	0.11110
460	581030.19	4141594.5	198.19	175.04	145.19	165.67	188.28	0.1745	0.08200	0.41176
461	581036.75	4141387	594.08	520.66	441.43	508.02	576.53	0.5281	0.24823	1.24642
462	581039.62	4141854.25	103.86	91.69	75.14	84.83	97.38	0.0906	0.04257	0.21377
463	581044.94	4141413.25	439.43	385.8	325.27	373.6	424.15	0.3897	0.18314	0.91957
464	581046.5	4141647	162.76	143.73	118.85	135.41	154.09	0.1430	0.06719	0.33740
465	581053.19	4141439.5	352.41	310.03	260.21	298.22	338.65	0.3119	0.14659	0.73609
466	581056	4141906.75	92.12	81.3	66.49	74.77	86.17	0.0802	0.03768	0.18920
467	581058.69	4142373.5	45.97	40.87	32.94	34.88	42.17	0.0394	0.01850	0.09290
468	581061.38	4141465.75	295.48	260.33	217.62	249.24	283.02	0.2611	0.12273	0.61629
469	581062.88	4141699.5	137.82	121.64	100.32	114.06	130.08	0.1208	0.05677	0.28505
470	581067.75	4142097.25	66.87	59.04	47.98	53.01	62.1	0.0578	0.02717	0.13641
471	581069.56	4141492	254.58	224.47	187.09	214.23	243.21	0.2247	0.10562	0.53033
472	581072.31	4141959	82.44	72.77	59.39	66.5	76.96	0.0716	0.03366	0.16900
473	581077.81	4141518.25	223.5	197.08	163.94	187.66	213.05	0.1970	0.09261	0.46503
474	581079.25	4141751.75	119.26	105.2	86.54	98.13	112.19	0.1043	0.04900	0.24606
475	581086	4141544.5	199.23	175.67	145.91	166.87	189.5	0.1754	0.08245	0.41403

476	581091.38	4142478.5	38.98	34.85	28.03	28.93	35.51	0.0333	0.01563	0.07849
477	581093.06	4141337.5	592.85	520.48	441.08	506.26	575.64	0.5273	0.24781	1.24434
478	581095.56	4141804.25	104.68	92.3	75.75	85.64	98.22	0.0913	0.04292	0.21551
479	581100.5	4142202	55.53	49.06	39.66	43.27	51.29	0.0478	0.02245	0.11272
480	581101	4141363.5	441.39	388.4	327.14	374.99	426.22	0.3916	0.18407	0.92424
481	581102.44	4141597	163.73	144.4	119.56	136.42	155.12	0.1438	0.06761	0.33948
482	581108.88	4141389.25	355	312.56	262.26	300.59	341.43	0.3144	0.14775	0.74191
483	581111.94	4141856.75	92.87	81.84	67.01	75.53	86.9	0.0808	0.03799	0.19076
484	581117.12	4141415.5	296.65	261.43	218.69	250.5	284.46	0.2623	0.12330	0.61914
485	581118.81	4141649.5	138.82	122.41	101.08	115.09	131.12	0.1217	0.05720	0.28722
486	581125.31	4141441.75	255.7	225.48	188.14	215.41	244.61	0.2259	0.10616	0.53305
487	581128.31	4141909	83.11	73.23	59.84	67.2	77.62	0.0722	0.03393	0.17039
488	581133.25	4142307	46.64	41.32	33.3	35.66	42.86	0.0400	0.01878	0.09430
489	581133.5	4141468	225.03	198.42	165.26	189.12	214.76	0.1985	0.09330	0.46850
490	581135.19	4141702	120.06	105.78	87.18	98.98	113.04	0.1050	0.04935	0.24782
491	581141.75	4141494.25	200.93	177.1	147.3	168.41	191.28	0.1770	0.08319	0.41773
492	581142.38	4142030.5	67.69	59.68	48.52	53.92	62.93	0.0585	0.02752	0.13817
493	581150.75	4141289.5	589.18	517.01	438.54	501.61	572.18	0.5237	0.24614	1.23594
494	581151.56	4141754.25	105.48	92.85	76.37	86.44	99.01	0.0920	0.04325	0.21719
495	581158.19	4141546.75	165.24	145.57	120.76	137.8	156.67	0.1452	0.06825	0.34269
496	581158.69	4141315.5	438.86	385.89	325.71	371.85	424.03	0.3893	0.18296	0.91867
497	581165.94	4142411.75	39.56	35.22	28.3	29.65	36.13	0.0338	0.01587	0.07970
498	581166.62	4141341.5	353.41	311.02	261.52	298.58	340.06	0.3129	0.14707	0.73849
499	581167.88	4141806.75	93.68	82.4	67.62	76.3	87.69	0.0815	0.03832	0.19243
500	581174.5	4141367.25	297.96	262.49	219.96	251.1	285.71	0.2634	0.12382	0.62173
501	581174.56	4141599.25	139.97	123.28	102.01	116.11	132.28	0.1227	0.05768	0.28964
502	581175.06	4142135.5	56.27	49.6	40.12	44.11	52.05	0.0484	0.02276	0.11429
503	581182.44	4141393.25	257.66	227.22	189.88	216.64	246.4	0.2276	0.10695	0.53704
504	581184.25	4141859.25	83.86	73.77	60.39	67.91	78.34	0.0729	0.03424	0.17194
505	581190.38	4141419.25	227.01	200.28	167.03	190.49	216.6	0.2003	0.09413	0.47267
506	581191	4141651.75	121.11	106.62	88.03	99.93	114.07	0.1060	0.04980	0.25005
507	581198.31	4141445	203.07	179.08	149.18	170.05	193.35	0.1789	0.08410	0.42231
508	581207.44	4141704.25	106.43	93.63	77.15	87.33	99.94	0.0929	0.04366	0.21923
509	581207.81	4142240.25	47.33	41.81	33.69	36.46	43.54	0.0406	0.01907	0.09574
510	581210.69	4141244.5	575.69	507.26	429.64	486.2	558.11	0.5114	0.24035	1.20686
511	581214.12	4141497	167.39	147.43	122.59	139.53	158.75	0.1471	0.06915	0.34725
512	581216.94	4141964	68.57	60.32	49.12	54.78	63.77	0.0593	0.02788	0.13998
513	581218.19	4141270	432.17	381.12	321.36	364.28	417.06	0.3832	0.18010	0.90435
514	581223.88	4141756.75	94.6	83.16	68.36	77.14	88.58	0.0824	0.03871	0.19439
515	581225.69	4141295.25	350.71	309.41	260.12	295.12	337.25	0.3105	0.14595	0.73283
516	581230.31	4141549.25	141.91	124.95	103.62	117.72	134.11	0.1245	0.05850	0.29373
517	581233.19	4141320.75	296.49	261.76	219.59	249.02	284.25	0.2622	0.12324	0.61884
518	581240.19	4141809.25	84.73	74.49	61.07	68.7	79.17	0.0736	0.03461	0.17377
519	581240.5	4142345.25	40.14	35.61	28.59	30.34	36.73	0.0343	0.01611	0.08091
520	581240.69	4141346	257.98	227.79	190.78	216.28	246.69	0.2279	0.10711	0.53785
521	581246.75	4141601.75	122.71	108	89.35	101.24	115.62	0.1074	0.05047	0.25343
522	581248.19	4141371.25	228.58	201.76	168.74	191.31	218.05	0.2017	0.09479	0.47598
523	581249.69	4142068.75	57.01	50.2	40.61	44.91	52.79	0.0491	0.02308	0.11589
524	581256	4141397.25	204.56	180.43	150.74	170.91	194.7	0.1803	0.08473	0.42543
525	581263.19	4141654.25	107.73	94.75	78.21	88.41	101.16	0.0941	0.04420	0.22196
526	581271.88	4141449	168.82	148.78	124.01	140.48	160.1	0.1484	0.06977	0.35031
527	581272.62	4141202.25	565.09	498.54	421.82	473.85	547.05	0.5013	0.23560	1.18300
528	581279.56	4141706.75	95.66	84.09	69.26	78.07	89.6	0.0833	0.03917	0.19667
529	581279.75	4141227.25	427.14	377.09	318.45	357.18	411.48	0.3783	0.17779	0.89271
530	581282.38	4142173.75	47.98	42.29	34.07	37.19	44.2	0.0411	0.01934	0.09710
531	581286.94	4141252	348.51	307.91	259.55	290.94	334.52	0.3083	0.14489	0.72755
532	581287.69	4141500.75	143.33	126.17	104.95	118.76	135.43	0.1257	0.05909	0.29672
533	581291.56	4141897.5	69.55	61.11	49.83	55.7	64.7	0.0602	0.02828	0.14202
534	581294.25	4141277	295.54	261.32	219.83	246.37	282.82	0.2612	0.12275	0.61638
535	581296	4141759.25	85.68	75.3	61.84	69.54	80.07	0.0745	0.03501	0.17579
536	581301.75	4141302.5	256.48	226.89	190.45	213.55	244.77	0.2264	0.10642	0.53437
537	581303.56	4141552.75	124.08	109.1	90.56	102.28	116.82	0.1086	0.05103	0.25622
538	581309.25	4141327.75	227.05	200.84	168.3	188.88	216.24	0.2003	0.09412	0.47262
539	581315.06	4142278.5	40.75	36.05	28.91	31.03	37.35	0.0348	0.01636	0.08217
540	581316.75	4141353.25	203.67	180.03	150.7	169.25	193.59	0.1794	0.08434	0.42350
541	581319.38	4141604.5	109.13	95.9	79.38	89.5	102.45	0.0953	0.04478	0.22484
542	581324.25	4142002.25	57.85	50.89	41.19	45.71	53.58	0.0498	0.02343	0.11763
543	581331.75	4141404	168.96	149.15	124.59	139.98	160.01	0.1485	0.06981	0.35055
544	581335.31	4141656.5	97.02	85.23	70.34	79.18	90.85	0.0845	0.03973	0.19948
545	581337.56	4141164.75	544.99	482.42	408.49	451.32	525.61	0.4826	0.22681	1.13886
546	581344.5	4141189.5	414.17	367.25	310.28	342.24	397.51	0.3663	0.17216	0.86444
547	581346.69	4141454.75	144.17	127.13	105.95	119.05	136.1	0.1265	0.05945	0.29849
548	581351.5	4141214	338.21	300.16	253.02	279.42	323.53	0.2989	0.14047	0.70533
549	581351.75	4141709	86.8	76.27	62.75	70.48	81.12	0.0755	0.03548	0.17814
550	581357	4142107	48.7	42.9	34.54	37.93	44.91	0.0418	0.01964	0.09864
551	581358.5	4141238.5	287.6	255.36	214.86	237.69	274.47	0.2540	0.11938	0.59943
552	581361.69	4141505.25	125.35	110.39	91.8	103.07	117.95	0.1097	0.05156	0.25892
553	581365.56	4141263.25	250.7	222.59	187.06	207.18	238.76	0.2213	0.10399	0.52217
554	581366	4141830.75	70.63	62.07	50.68	56.67	65.72	0.0612	0.02874	0.14432
555	581372.75	4141288	222.7	197.57	165.87	183.97	211.63	0.1963	0.09228	0.46338

556	581377.06	4141556.5	110.23	96.96	80.44	90.2	103.37	0.0962	0.04523	0.22713
557	581379.94	4141313	200.41	177.6	148.98	165.45	190.08	0.1765	0.08296	0.41655
558	581389.69	4142212	41.36	36.56	29.26	31.7	37.96	0.0354	0.01662	0.08347
559	581392.94	4141608.5	97.85	86.02	71.13	79.69	91.51	0.0852	0.04006	0.20117
560	581394.25	4141362.5	167.27	148.03	123.9	137.78	158.13	0.1470	0.06910	0.34697
561	581398.88	4141935.75	58.75	51.66	41.83	46.53	54.44	0.0506	0.02380	0.11952
562	581404.19	4141130.5	522.51	463.41	391.56	428.78	502.43	0.4617	0.21702	1.08970
563	581408.56	4141412.25	143.31	126.67	105.76	117.71	135.07	0.1257	0.05908	0.29666
564	581408.75	4141660.25	87.68	77.1	63.51	71.09	81.86	0.0762	0.03584	0.17995
565	581411.12	4141155	398.07	353.38	298.55	326.03	380.93	0.3514	0.16515	0.82929
566	581418.12	4141179.5	325.97	289.62	244.36	266.97	310.92	0.2876	0.13516	0.67866
567	581422.88	4141462	124.98	110.31	91.86	102.36	117.43	0.1094	0.05141	0.25816
568	581425.12	4141204	278.01	247.21	208.24	227.73	264.49	0.2451	0.11521	0.57852
569	581431.56	4142040.5	49.43	43.54	35.02	38.66	45.59	0.0424	0.01995	0.10018
570	581432.12	4141228.5	243.23	216.33	181.99	199.28	230.91	0.2143	0.10074	0.50586
571	581437.75	4141512.5	110.15	97.09	80.62	89.86	103.2	0.0962	0.04521	0.22699
572	581439.06	4141253	216.56	192.5	161.8	177.43	205.19	0.1907	0.08963	0.45004
573	581440.44	4141764	71.83	63.18	51.61	57.65	66.8	0.0622	0.02924	0.14683
574	581446.06	4141277.5	195.24	173.39	145.61	159.98	184.69	0.1718	0.08074	0.40541
575	581452.75	4141563.25	98.09	86.37	71.47	79.71	91.66	0.0855	0.04017	0.20169
576	581460	4141326.75	163.19	144.67	121.23	133.62	153.93	0.1433	0.06736	0.33825
577	581464.31	4142145.5	41.95	37.07	29.62	32.33	38.53	0.0359	0.01687	0.08472
578	581467.75	4141614	88.07	77.53	63.91	71.27	82.12	0.0766	0.03599	0.18073
579	581471.25	4141097	512.57	454.33	383.68	418.41	491.78	0.4522	0.21251	1.06708
580	581473.19	4141868.75	59.69	52.58	42.52	47.36	55.28	0.0515	0.02420	0.12151
581	581474	4141375.75	140.3	124.2	103.78	114.69	132	0.1230	0.05781	0.29027
582	581478.19	4141121.25	389.82	346.16	292.15	317.42	372.23	0.3436	0.16147	0.81079
583	581485.12	4141145.75	318.12	282.84	238.62	258.77	302.77	0.2802	0.13171	0.66133
584	581488	4141424.75	122.74	108.5	90.4	100.1	115.17	0.1074	0.05047	0.25342
585	581492.06	4141170.25	270.78	241	203.18	220.12	257.02	0.2384	0.11206	0.56267
586	581499	4141194.5	237.02	211.07	177.76	192.68	224.47	0.2086	0.09804	0.49230
587	581501.94	4141473.75	108.69	95.97	79.72	88.34	101.69	0.0949	0.04459	0.22392
588	581505.94	4141219	211.06	187.88	158.08	171.64	199.5	0.1856	0.08725	0.43809
589	581506	4141973.75	50.18	44.28	35.51	39.32	46.3	0.0431	0.02027	0.10176
590	581512.81	4141243.5	190.48	169.42	142.4	154.97	179.76	0.1674	0.07868	0.39508
591	581515.94	4141523	97.17	85.73	70.95	78.73	90.69	0.0847	0.03979	0.19978
592	581518.06	4141701	72.35	63.77	52.07	57.99	67.16	0.0627	0.02945	0.14790
593	581526.69	4141292.25	159.61	141.74	118.84	129.85	150.21	0.1401	0.06582	0.33052
594	581530.19	4141572.5	87.51	77.18	63.6	70.66	81.51	0.0761	0.03576	0.17958
595	581538.81	4141064.25	504.17	446.2	376.42	410.29	483.06	0.4440	0.20869	1.04791
596	581538.88	4142078.75	42.54	37.63	29.96	32.91	39.13	0.0364	0.01712	0.08598
597	581540.62	4141341.25	137.08	121.59	101.66	111.38	128.7	0.1201	0.05644	0.28339
598	581545.75	4141088.75	381.63	338.46	285.59	309.3	363.69	0.3357	0.15779	0.79233
599	581549.12	4141803.75	60.35	53.25	43.02	47.91	55.86	0.0521	0.02448	0.12290
600	581552.62	4141113	311.66	276.83	233.53	252.17	295.97	0.2740	0.12880	0.64672
601	581554.56	4141390.25	119.87	106.18	88.48	97.23	112.25	0.1048	0.04926	0.24733
602	581559.56	4141137.5	264.88	235.65	198.64	214.16	250.9	0.2328	0.10944	0.54952
603	581566.5	4141162	231.21	205.91	173.42	186.89	218.54	0.2032	0.09550	0.47954
604	581568.56	4141439.5	106.15	93.9	77.96	85.89	99.13	0.0926	0.04352	0.21855
605	581573.44	4141186.5	205.62	183.14	154.14	166.21	194	0.1806	0.08489	0.42627
606	581580.38	4141210.75	185.58	165.17	138.95	150	174.79	0.1629	0.07656	0.38444
607	581580.75	4141907.25	50.83	44.94	35.96	39.95	46.92	0.0437	0.02055	0.10318
608	581582.5	4141488.5	95.02	83.97	69.42	76.72	88.56	0.0827	0.03889	0.19526
609	581594.19	4141259.75	155.38	138.14	115.94	125.57	145.93	0.1362	0.06401	0.32141
610	581596.5	4141537.5	85.72	75.71	62.32	69.03	79.74	0.0745	0.03502	0.17583
611	581602.25	4141647.25	71.47	63.12	51.42	57.2	66.26	0.0619	0.02909	0.14607
612	581606.31	4141031.75	497.03	439.55	370.24	404.17	475.84	0.4374	0.20556	1.03218
613	581608.06	4141308.5	133.7	118.75	99.34	107.98	125.24	0.1170	0.05499	0.27612
614	581613.12	4142011.75	43.07	38.16	30.29	33.49	39.67	0.0369	0.01736	0.08717
615	581613.25	4141056	376.57	333.65	281.07	304.77	358.57	0.3309	0.15554	0.78099
616	581620.19	4141080.5	306.27	271.8	229.02	247.28	290.61	0.2690	0.12643	0.63483
617	581621.94	4141357.25	117.08	103.86	86.56	94.43	109.4	0.1023	0.04807	0.24135
618	581627.12	4141105	259.99	231.06	194.66	209.59	246.01	0.2283	0.10728	0.53870
619	581630.38	4141745.75	60.11	53.18	42.83	47.75	55.59	0.0519	0.02439	0.12247
620	581634	4141129.25	227.02	201.94	170.06	182.84	214.29	0.1992	0.09364	0.47018
621	581635.75	4141406.25	103.74	91.95	76.29	83.53	96.68	0.0904	0.04251	0.21343
622	581640.94	4141153.75	201.57	179.37	150.97	162.27	189.87	0.1768	0.08310	0.41727
623	581647.88	4141178.25	181.43	161.43	135.79	146	170.61	0.1591	0.07475	0.37536
624	581649.62	4141455	92.85	82.25	67.91	74.6	86.37	0.0808	0.03797	0.19068
625	581659.44	4141845.75	50.93	45.14	35.99	40.13	47.01	0.0438	0.02060	0.10346
626	581661.75	4141227	151.69	134.9	113.23	121.96	142.23	0.1328	0.06242	0.31341
627	581663.5	4141503.75	83.78	74.19	60.94	67.17	77.76	0.0728	0.03420	0.17173
628	581673.81	4140999	492.7	435.46	366.4	400.64	471.55	0.4334	0.20367	1.02271
629	581675.56	4141275.75	130.46	115.96	97.02	104.79	122.01	0.1140	0.05360	0.26915
630	581680.75	4141023.5	372.13	329.37	277.21	300.95	354.15	0.3268	0.15358	0.77116
631	581687.69	4141047.75	303.06	268.58	226.12	244.33	287.34	0.2659	0.12497	0.62749
632	581689.44	4141324.75	114.2	101.44	84.5	91.6	106.52	0.0997	0.04684	0.23518
633	581689.44	4141947.25	43.38	38.51	30.43	33.9	39.99	0.0372	0.01750	0.08789
634	581691.19	4141601.5	69.42	61.49	49.88	55.41	64.25	0.0601	0.02824	0.14181
635	581694.62	4141072.25	256.95	228.03	192	206.68	242.88	0.2253	0.10589	0.53173

636	581701.56	4141096.75	223.68	198.74	167.29	179.63	210.88	0.1960	0.09214	0.46266
637	581703.31	4141373.5	101.29	89.91	74.52	81.12	94.21	0.0882	0.04146	0.20818
638	581708.5	4141121	198.49	176.45	148.48	159.25	186.74	0.1739	0.08172	0.41036
639	581715.38	4141145.5	178.4	158.59	133.38	143.04	167.53	0.1562	0.07341	0.36860
640	581717.12	4141422.25	90.67	80.48	66.33	72.54	84.16	0.0788	0.03705	0.18605
641	581719	4141699.25	58.42	51.81	41.53	46.39	53.98	0.0504	0.02370	0.11901
642	581729.25	4141194.25	148.67	132.16	110.89	119.05	139.19	0.1300	0.06110	0.30678
643	581731	4141471.25	81.73	72.55	59.44	65.28	75.73	0.0709	0.03334	0.16743
644	581741.38	4140966.25	488.96	431.82	363.03	397.74	467.76	0.4299	0.20204	1.01447
645	581743.12	4141243.25	127.45	113.3	94.72	101.92	118.99	0.1113	0.05230	0.26261
646	581746.94	4141797.5	49.64	44.11	34.97	39.19	45.84	0.0428	0.02009	0.10089
647	581748.25	4140990.75	369.03	326.28	274.33	298.49	351.08	0.3238	0.15221	0.76427
648	581755.19	4141015.25	299.71	265.25	223.09	241.58	284.05	0.2627	0.12349	0.62006
649	581756.94	4141292	111.54	99.14	82.49	89.08	103.88	0.0972	0.04570	0.22945
650	581762.12	4141039.5	254.25	225.28	189.47	204.38	240.21	0.2227	0.10468	0.52561
651	581769.06	4141064	221.06	196.13	164.89	177.33	208.29	0.1935	0.09096	0.45675
652	581770.81	4141340.75	98.9	87.9	72.73	78.86	91.86	0.0861	0.04044	0.20308
653	581774.88	4141895.5	42.57	37.86	29.75	33.37	39.3	0.0366	0.01719	0.08631
654	581776	4141088.5	195.69	173.76	146.01	156.76	183.96	0.1712	0.08048	0.40412
655	581781.25	4141558	67.03	59.6	48.08	53.32	61.95	0.0580	0.02726	0.13687
656	581782.94	4141112.75	175.75	156.1	131.11	140.64	164.91	0.1537	0.07224	0.36274
657	581784.69	4141389.75	88.46	78.65	64.69	70.49	81.96	0.0769	0.03612	0.18137
658	581796.75	4141161.75	145.97	129.7	108.67	116.6	136.55	0.1275	0.05992	0.30090
659	581798.5	4141438.5	79.74	70.92	57.93	63.49	73.77	0.0692	0.03251	0.16324
660	581808.88	4140933.75	484.51	427.6	359.32	394.23	463.35	0.4258	0.20013	1.00489
661	581808.94	4141655.75	56.33	50.17	39.93	44.68	52.04	0.0486	0.02286	0.11477
662	581810.62	4141210.5	124.98	111.05	92.7	99.65	116.57	0.1090	0.05123	0.25722
663	581815.81	4140958	366.46	323.73	272.05	296.43	348.51	0.3214	0.15107	0.75859
664	581822.75	4140982.5	297.26	262.83	220.9	239.52	281.59	0.2604	0.12240	0.61459
665	581824.5	4141259.25	109.08	96.94	80.52	86.86	101.42	0.0950	0.04463	0.22412
666	581829.69	4141007	251.45	222.57	187.02	201.99	237.44	0.2201	0.10344	0.51942
667	581836.56	4141031.25	218.72	193.83	162.76	175.27	205.99	0.1913	0.08992	0.45150
668	581836.62	4141753.25	47.89	42.71	33.59	37.85	44.26	0.0413	0.01939	0.09737
669	581838.31	4141308.25	96.43	85.73	70.79	76.66	89.42	0.0838	0.03939	0.19778
670	581843.5	4141055.75	193.51	171.61	144	154.77	181.82	0.1691	0.07950	0.39918
671	581850.44	4141080.25	173.59	154.01	129.13	138.62	162.77	0.1516	0.07126	0.35783
672	581852.19	4141357	86.12	76.62	62.84	68.44	79.68	0.0747	0.03513	0.17639
673	581864.31	4141129	144.09	127.94	107	114.78	134.61	0.1257	0.05907	0.29661
674	581864.38	4141851	41.08	36.64	28.53	32.29	37.99	0.0353	0.01659	0.08332
675	581866.06	4141406	77.5	69.02	56.18	61.59	71.63	0.0672	0.03158	0.15855
676	581871.25	4141514.5	64.6	57.6	46.21	51.33	59.66	0.0559	0.02626	0.13188
677	581876.38	4140901	482.01	425.26	357.2	392.19	460.69	0.4235	0.19903	0.99939
678	581878.12	4141178	122.91	109.2	90.98	97.72	114.45	0.1071	0.05031	0.25264
679	581883.31	4140925.5	362.96	320.61	269.11	293.63	344.99	0.3183	0.14958	0.75109
680	581890.25	4140949.75	294.14	259.98	218.15	237.16	278.59	0.2576	0.12107	0.60795
681	581892	4141226.75	106.9	95.01	78.74	84.88	99.21	0.0929	0.04369	0.21936
682	581897.19	4140974.25	248.28	219.53	184.17	199.61	234.44	0.2172	0.10209	0.51261
683	581898.94	4141612	54.2	48.42	38.26	43.03	50.1	0.0468	0.02200	0.11045
684	581904.12	4140998.75	215.53	190.7	159.9	172.83	202.94	0.1884	0.08854	0.44458
685	581905.88	4141275.5	94.23	83.79	69	74.77	87.23	0.0818	0.03845	0.19306
686	581911	4141023.25	190.7	168.79	141.44	152.54	179.08	0.1665	0.07826	0.39296
687	581917.94	4141047.5	171.16	151.53	126.88	136.63	160.37	0.1493	0.07018	0.35238
688	581919.69	4141324.5	83.84	74.63	61.01	66.55	77.52	0.0727	0.03417	0.17160
689	581926.69	4141709.75	46.02	41.17	32.08	36.48	42.61	0.0397	0.01865	0.09363
690	581931.81	4141096.5	141.7	125.56	104.82	112.76	132.26	0.1234	0.05801	0.29127
691	581933.56	4141373.25	75.3	67.08	54.41	59.79	69.57	0.0652	0.03066	0.15394
692	581943.94	4140868.5	476.78	420.76	352.92	388.17	455.54	0.4188	0.19685	0.98845
693	581945.69	4141145.25	120.63	107.01	88.92	95.77	112.23	0.1049	0.04931	0.24759
694	581950.81	4140892.75	359.56	317.41	266.02	291.22	341.77	0.3152	0.14814	0.74386
695	581954.38	4141807.5	39.48	35.3	27.21	31.17	36.62	0.0340	0.01596	0.08014
696	581957.75	4140917.25	291.25	257.2	215.49	234.93	275.77	0.2549	0.11982	0.60163
697	581959.5	4141194	104.65	92.94	76.78	82.96	97.07	0.0909	0.04271	0.21448
698	581961.25	4141471	61.95	55.32	44.08	49.23	57.25	0.0536	0.02518	0.12642
699	581964.69	4140941.75	245.93	217.27	181.98	197.7	232.07	0.2150	0.10105	0.50738
700	581971.62	4140966	213.33	188.51	157.81	171.04	200.73	0.1863	0.08755	0.43963
701	581973.38	4141243	91.95	81.77	67.08	72.87	85.08	0.0798	0.03748	0.18821
702	581978.56	4140990.5	188.16	166.24	139.09	150.55	176.61	0.1641	0.07714	0.38735
703	581985.5	4141015	168.28	148.62	124.26	134.4	157.61	0.1466	0.06892	0.34606
704	581987.25	4141291.75	81.67	72.76	59.2	64.77	75.5	0.0708	0.03327	0.16704
705	581989	4141568.5	51.95	46.5	36.43	41.33	48.12	0.0449	0.02109	0.10588
706	581999.31	4141063.75	138.94	122.75	102.31	110.61	129.65	0.1209	0.05680	0.28521
707	582001.06	4141340.5	73.21	65.3	52.66	58.1	67.63	0.0634	0.02979	0.14958
708	582011.31	4140835.5	473.75	417.39	350.07	386.29	452.59	0.4160	0.19553	0.98180
709	582013.19	4141112.5	118	104.42	86.55	93.65	109.75	0.1025	0.04816	0.24184
710	582016.69	4141666.25	44.14	39.53	30.52	35.1	40.98	0.0381	0.01789	0.08981
711	582018.31	4140860	356.4	314.17	263.26	288.91	338.6	0.3123	0.14677	0.73695
712	582025.25	4140884.5	288.4	254.29	212.97	232.83	272.94	0.2523	0.11857	0.59539
713	582027.06	4141161.5	102.09	90.56	74.53	80.9	94.69	0.0886	0.04162	0.20899
714	582032.19	4140909	243.26	214.57	179.59	195.69	229.47	0.2125	0.09988	0.50154
715	582039.12	4140933.5	210.61	185.84	155.38	168.92	198.09	0.1838	0.08637	0.43369

716	582040.88	4141210.25	89.59	79.66	65.03	70.95	82.9	0.0776	0.03648	0.18320
717	582044.44	4141764	37.89	33.89	25.86	30.07	35.25	0.0326	0.01532	0.07692
718	582046.06	4140957.75	185.82	163.97	136.94	148.68	174.32	0.1619	0.07611	0.38219
719	582051.31	4141427.5	59.31	53.07	41.91	47.24	54.9	0.0513	0.02410	0.12103
720	582053	4140982.25	165.96	146.42	122.12	132.53	155.35	0.1445	0.06790	0.34096
721	582054.75	4141259	79.4	70.8	57.28	62.98	73.44	0.0688	0.03233	0.16232
722	582066.88	4141031	136.49	120.49	100.04	108.65	127.3	0.1186	0.05574	0.27988
723	582068.62	4141308	70.99	63.41	50.83	56.39	65.65	0.0615	0.02888	0.14503
724	582078.5	4140802.25	472.01	415.46	348.29	385.26	450.83	0.4144	0.19475	0.97791
725	582079	4141525	49.61	44.45	34.49	39.62	46.06	0.0428	0.02014	0.10112
726	582080.69	4141080	115.38	102.04	84.16	91.64	107.28	0.1001	0.04705	0.23624
727	582085.44	4140826.5	355.33	312.84	261.96	288.3	337.48	0.3112	0.14626	0.73439
728	582092.38	4140851	286.66	252.46	211.1	231.67	271.19	0.2506	0.11779	0.59145
729	582094.56	4141128.75	99.46	88.21	72.16	78.91	92.26	0.0862	0.04051	0.20343
730	582099.31	4140875.5	241.01	212.4	177.31	194.16	227.34	0.2104	0.09891	0.49665
731	582106.31	4140900	208.06	183.42	152.89	167.15	195.76	0.1815	0.08528	0.42824
732	582106.75	4141622.75	42.15	37.76	28.85	33.72	39.26	0.0363	0.01708	0.08578
733	582108.44	4141177.5	86.95	77.34	62.7	69.01	80.55	0.0753	0.03540	0.17773
734	582113.25	4140924.5	183.04	161.39	134.3	146.68	171.79	0.1594	0.07494	0.37628
735	582120.19	4140949	163.26	143.92	119.56	130.54	152.88	0.1420	0.06676	0.33520
736	582122.25	4141226.5	76.8	68.52	55.02	61.06	71.12	0.0665	0.03126	0.15695
737	582134.06	4140997.75	133.89	118.09	97.57	106.7	124.88	0.1162	0.05463	0.27429
738	582134.44	4141720.5	36.27	32.41	24.47	29	33.86	0.0312	0.01466	0.07364
739	582136.12	4141275.25	68.54	61.27	48.7	54.62	63.51	0.0593	0.02788	0.14001
740	582141.31	4141383.75	56.57	50.67	39.6	45.26	52.52	0.0489	0.02299	0.11546
741	582145.62	4140768.75	469.91	413.53	346.23	384.09	448.74	0.4125	0.19388	0.97350
742	582148	4141046.75	112.76	99.62	81.69	89.71	104.86	0.0977	0.04593	0.23064
743	582152.62	4140793.25	352.25	309.96	259.13	286.32	334.51	0.3084	0.14496	0.72790
744	582159.56	4140817.75	283.93	249.83	208.59	229.85	268.61	0.2482	0.11664	0.58566
745	582161.88	4141095.75	96.78	85.75	69.66	76.98	89.8	0.0838	0.03938	0.19775
746	582166.5	4140842.25	238.52	209.93	174.98	192.38	224.95	0.2082	0.09783	0.49124
747	582169.06	4141481.5	47.21	42.3	32.46	37.95	43.98	0.0408	0.01917	0.09624
748	582173.44	4140866.5	205.94	181.35	150.79	165.58	193.68	0.1795	0.08435	0.42354
749	582175.81	4141144.75	84.25	74.89	60.22	67.09	78.08	0.0729	0.03427	0.17206
750	582180.38	4140891	180.75	159.22	132.03	144.98	169.58	0.1573	0.07394	0.37126
751	582187.38	4140915.5	160.75	141.63	117.09	128.71	150.51	0.1397	0.06568	0.32978
752	582189.69	4141193.5	74.19	66.18	52.63	59.24	68.82	0.0642	0.03018	0.15154
753	582196.75	4141579.25	40.11	35.87	27.1	32.34	37.51	0.0346	0.01626	0.08162
754	582201.25	4140964.5	131.02	115.54	94.81	104.64	122.26	0.1137	0.05342	0.26822
755	582203.56	4141242.5	65.99	59	46.41	52.86	61.3	0.0571	0.02684	0.13478
756	582212.81	4140735.25	467.98	411.62	344.16	382.91	446.92	0.4107	0.19304	0.96929
757	582215.12	4141013.5	109.82	97.01	78.91	87.65	102.21	0.0951	0.04471	0.22448
758	582219.75	4140759.75	350.48	308.35	257.18	285.17	332.78	0.3068	0.14419	0.72403
759	582224.44	4141677	34.55	30.77	22.97	27.88	32.39	0.0297	0.01396	0.07012
760	582226.69	4140784.25	281.52	247.66	206.11	228.26	266.32	0.2460	0.11561	0.58050
761	582229.06	4141062.25	93.9	83.16	66.96	75.01	87.29	0.0813	0.03819	0.19178
762	582231.38	4141340.25	53.6	47.98	37.02	43.23	49.99	0.0464	0.02179	0.10942
763	582233.69	4140808.75	235.45	207.07	171.97	190.32	222.1	0.2054	0.09653	0.48470
764	582240.62	4140833.25	202.3	177.86	147.36	163.09	190.32	0.1762	0.08281	0.41580
765	582242.94	4141111.25	81.44	72.33	57.6	65.2	75.68	0.0705	0.03311	0.16626
766	582247.56	4140857.75	177.12	155.65	128.59	142.46	166.21	0.1540	0.07238	0.36345
767	582254.5	4140882.25	157.2	138.1	113.7	126.22	147.2	0.1365	0.06415	0.32210
768	582256.88	4141160.25	71.46	63.67	50.12	57.43	66.49	0.0618	0.02906	0.14593
769	582259.06	4141438	44.75	39.98	30.31	36.32	41.91	0.0387	0.01817	0.09122
770	582268.44	4140931	127.59	112.22	91.51	102.27	119.14	0.1105	0.05196	0.26089
771	582270.75	4141209	63.46	56.64	44.09	51.21	59.17	0.0549	0.02581	0.12960
772	582280	4140702	463.76	407.48	340.42	380.15	443.09	0.4070	0.19128	0.96047
773	582282.31	4140980	106.35	93.79	75.6	85.32	99.18	0.0920	0.04326	0.21723
774	582286.75	4141535.75	38.08	33.88	25.33	31.03	35.79	0.0328	0.01543	0.07746
775	582286.94	4140726.5	346.31	303.95	253.42	282.45	328.91	0.3030	0.14241	0.71510
776	582293.88	4140751	277.78	243.68	202.64	225.76	262.74	0.2425	0.11398	0.57235
777	582296.19	4141029	90.45	80.01	63.73	72.76	84.38	0.0783	0.03679	0.18471
778	582300.81	4140775.25	232.34	203.86	168.92	188.25	219.08	0.2025	0.09517	0.47788
779	582307.75	4140799.75	198.99	174.71	144.12	160.81	187.15	0.1732	0.08138	0.40865
780	582310.12	4141077.75	78.22	69.37	54.61	63.15	73.04	0.0677	0.03181	0.15972
781	582314.5	4141633.25	32.87	29.06	21.5	26.84	30.97	0.0282	0.01328	0.06667
782	582314.75	4140824.25	173.44	152.34	125.05	139.89	162.77	0.1507	0.07083	0.35565
783	582320.94	4141295.75	50.69	45.17	34.38	41.38	47.58	0.0438	0.02060	0.10346
784	582321.69	4140848.75	153.23	134.63	109.94	123.46	143.58	0.1330	0.06249	0.31380
785	582324	4141126.75	68.5	60.89	47.37	55.58	64.12	0.0593	0.02787	0.13993
786	582335.56	4140897.75	123.28	108.45	87.5	99.37	115.34	0.1068	0.05019	0.25202
787	582337.88	4141175.75	60.74	54.03	41.57	49.52	56.96	0.0526	0.02471	0.12405
788	582347.56	4140669.5	460.91	405.51	338.71	376.71	439.75	0.4043	0.19003	0.95419
789	582348.75	4141393.75	42.31	37.54	28.13	34.79	39.88	0.0365	0.01717	0.08621
790	582349.44	4140946.5	102.23	90.08	71.75	82.66	95.67	0.0885	0.04158	0.20881
791	582354.5	4140694	342.34	301.07	250.4	278.9	324.83	0.2995	0.14077	0.70684
792	582361.38	4140718.25	273.42	240.22	198.95	222.33	258.51	0.2387	0.11218	0.56330
793	582363.38	4140995.5	86.56	76.41	60.07	70.33	81.11	0.0749	0.03520	0.17675
794	582368.31	4140742.75	226.84	199.14	164.05	184.15	213.84	0.1976	0.09287	0.46635
795	582375.25	4140767	193.34	169.72	138.92	156.78	181.85	0.1681	0.07902	0.39677

796	582376.5	4141491.5	36.08	31.8	23.55	29.71	34.11	0.0311	0.01459	0.07328
797	582377.25	4141044.5	74.63	65.95	51.22	60.97	70.09	0.0646	0.03035	0.15239
798	582382.12	4140791.5	167.52	147.1	119.56	135.77	157.32	0.1455	0.06836	0.34327
799	582389	4140815.75	147.3	129.4	104.41	119.47	138.24	0.1278	0.06005	0.30152
800	582391.19	4141093.5	65.29	57.72	44.31	53.66	61.46	0.0565	0.02655	0.13331
801	582402.88	4140864.5	117.39	103.24	82.07	95.59	110.25	0.1017	0.04780	0.24003
802	582404.31	4141589.5	31.21	27.27	20.04	25.75	29.58	0.0268	0.01258	0.06318
803	582405.06	4141142.25	57.89	51.15	38.86	47.85	54.64	0.0501	0.02354	0.11818
804	582410.5	4141251.25	47.72	42.11	31.62	39.61	45.15	0.0412	0.01938	0.09733
805	582415.44	4140637.75	455.39	400.59	333.88	372.14	434.49	0.3993	0.18767	0.94234
806	582416.69	4140913.25	96.79	85.12	66.73	79.29	91.11	0.0838	0.03939	0.19779
807	582422.38	4140662	336	295.04	245.1	273.67	318.54	0.2937	0.13802	0.69306
808	582429.25	4140686.5	265.38	232.8	192.12	215.89	250.56	0.2314	0.10873	0.54599
809	582430.5	4140962.25	81.85	71.9	55.66	67.51	77.25	0.0708	0.03329	0.16717
810	582436.19	4140710.75	218.53	191.68	156.72	177.81	205.81	0.1901	0.08935	0.44866
811	582438.25	4141349.25	39.91	34.96	25.95	33.36	37.91	0.0344	0.01618	0.08123
812	582443.06	4140735.25	184.31	161.74	130.85	150.22	173.4	0.1601	0.07525	0.37785
813	582444.44	4141011	70.65	61.94	47.44	58.66	66.86	0.0611	0.02872	0.14422
814	582450	4140759.5	158.53	139.19	111.42	129.61	149.2	0.1376	0.06467	0.32471
815	582456.94	4140784	138.26	121.4	96.21	113.49	130.3	0.1199	0.05637	0.28304
816	582458.31	4141060	61.9	54.16	41.08	51.75	58.73	0.0535	0.02516	0.12632
817	582466.06	4141447	34.11	29.61	21.8	28.54	32.49	0.0293	0.01378	0.06917
818	582470.75	4140832.75	109.34	95.83	74.66	90.58	103.45	0.0948	0.04454	0.22366
819	582472.25	4141109	54.97	47.95	36.07	46.21	52.25	0.0475	0.02232	0.11208
820	582484.56	4140881.5	89.99	78.53	60.4	75.22	85.45	0.0779	0.03662	0.18389
821	582484.81	4140609.25	439.51	387.83	322.57	357.11	417.91	0.3850	0.18094	0.90857
822	582491.62	4140633.5	317.73	279.37	230.13	258.74	300.67	0.2773	0.13034	0.65449
823	582493.88	4141545	29.59	25.41	18.62	24.79	28.24	0.0253	0.01191	0.05978
824	582498.38	4140657.5	247.09	216.88	176.32	201.9	233.3	0.2151	0.10110	0.50763
825	582498.38	4140930.25	76.27	66.2	50.44	64.26	72.63	0.0660	0.03100	0.15567
826	582500	4141206.75	44.72	38.7	28.81	37.94	42.71	0.0386	0.01813	0.09104
827	582505.19	4140681.5	200.59	175.93	140.95	164.78	189.42	0.1743	0.08194	0.41143
828	582512	4140705.75	167.67	146.92	116.02	138.71	158.64	0.1456	0.06843	0.34360
829	582512.19	4140979	66.07	57.01	43.15	56.05	63.06	0.0571	0.02682	0.13468
830	582518.81	4140729.75	143.66	125.61	97.95	119.79	136.31	0.1247	0.05859	0.29421
831	582525.62	4140754	125.22	109.13	84.23	105.24	119.18	0.1086	0.05104	0.25630
832	582526	4141027.75	58.14	49.91	37.55	49.62	55.65	0.0502	0.02358	0.11841
833	582527.81	4141304.75	37.51	32.14	23.77	31.91	35.96	0.0323	0.01516	0.07613
834	582539.19	4140802.25	99.42	85.91	65.41	84.69	95.15	0.0861	0.04047	0.20323
835	582539.81	4141076.5	51.86	44.28	33.17	44.44	49.72	0.0447	0.02101	0.10548
836	582552.81	4140850.5	82.34	70.43	53.28	70.84	79.11	0.0712	0.03346	0.16803
837	582555.62	4141402.5	32.17	27.28	20.09	27.42	30.93	0.0276	0.01296	0.06508
838	582556.19	4140586.5	378.24	333.02	272.11	307.55	358.21	0.3298	0.15502	0.77839
839	582563	4140610.5	262.64	230.53	183.06	217.35	249.57	0.2286	0.10746	0.53957
840	582566.44	4140898.75	70.29	59.53	44.93	60.89	67.72	0.0607	0.02852	0.14319
841	582569.75	4140634.5	200.36	174.56	135.58	169.05	191.56	0.1742	0.08188	0.41116
842	582576.56	4140658.75	162.05	139.77	107.05	138.98	155.83	0.1407	0.06615	0.33214
843	582580.06	4140947	61.32	51.47	38.81	53.4	59.2	0.0528	0.02483	0.12470
844	582583.31	4140682.75	136.74	116.67	88.73	118.72	132.1	0.1186	0.05574	0.27988
845	582583.44	4141500.25	28.02	23.48	17.27	23.88	27	0.0239	0.01125	0.05647
846	582590.06	4141163.25	41.68	34.91	26.02	36.18	40.25	0.0358	0.01683	0.08451
847	582590.12	4140706.75	118.62	100.13	75.94	103.91	114.98	0.1027	0.04828	0.24241
848	582593.88	4140995.75	54.27	45.22	34.07	47.46	52.52	0.0467	0.02195	0.11023
849	582596.88	4140730.75	105.01	87.81	66.53	92.59	102.04	0.0908	0.04267	0.21428
850	582607.69	4141044.5	48.65	40.29	30.32	42.66	47.16	0.0418	0.01965	0.09869
851	582610.5	4140779	85.63	70.53	53.47	76.13	83.46	0.0738	0.03471	0.17427
852	582617.69	4141260.75	35.18	29.19	21.69	30.6	34.11	0.0302	0.01417	0.07116
853	582624	4140827	72.49	59.09	44.84	64.74	70.79	0.0624	0.02932	0.14724
854	582628.38	4140566.25	231.4	177.42	139.4	214.54	231.39	0.1988	0.09345	0.46924
855	582635.19	4140590.25	176.47	135.95	106.27	163.59	176.21	0.1517	0.07130	0.35801
856	582637.62	4140875.25	62.84	50.83	38.63	56.28	61.47	0.0540	0.02538	0.12746
857	582641.94	4140614.25	145.03	112.02	87.24	134.5	144.73	0.1247	0.05861	0.29430
858	582645.31	4141358.25	30.31	24.92	18.48	26.36	29.48	0.0259	0.01218	0.06115
859	582648.75	4140638.25	124.08	95.98	74.54	115.12	123.8	0.1067	0.05015	0.25182
860	582651.19	4140923.25	55.52	44.65	33.97	49.8	54.4	0.0477	0.02240	0.11250
861	582655.5	4140662.5	108.8	84.21	65.28	100.94	108.54	0.0936	0.04397	0.22079
862	582662.31	4140686.5	97.16	75.21	58.24	90.13	96.92	0.0835	0.03926	0.19714
863	582664.75	4140971.5	49.71	39.79	30.3	44.62	48.78	0.0426	0.02004	0.10063
864	582669.06	4140710.5	87.94	68.05	52.66	81.53	87.7	0.0756	0.03552	0.17836
865	582672.94	4141455.75	26.52	21.59	16.01	23	25.84	0.0226	0.01062	0.05332
866	582678.31	4141019.5	45	35.89	27.29	40.39	44.2	0.0386	0.01812	0.09099
867	582681.5	4141123	38.6	30.96	23.37	34.38	37.81	0.0330	0.01552	0.07794
868	582682.62	4140758.75	74.13	57.29	44.3	68.6	73.83	0.0636	0.02991	0.15017
869	582696.25	4140806.75	64.24	49.57	38.32	59.32	63.88	0.0551	0.02588	0.12996
870	582708.69	4141219.5	32.94	26.28	19.77	29.28	32.32	0.0281	0.01322	0.06636
871	582709.75	4140855	56.66	43.7	33.75	52.2	56.28	0.0485	0.02280	0.11450
872	582723.38	4140903	50.67	39.07	30.14	46.58	50.31	0.0434	0.02038	0.10232
873	582735.88	4141316	28.6	22.71	17.04	25.35	28.12	0.0244	0.01145	0.05750
874	582736.94	4140951.25	45.76	35.3	27.17	42	45.46	0.0391	0.01839	0.09237
875	582750.5	4140999.25	41.73	32.18	24.7	38.21	41.45	0.0357	0.01676	0.08414

876	582763.44	4141413.25	25.15	19.84	14.87	22.2	24.76	0.0214	0.01004	0.05042
877	582777.62	4141095.5	35.35	27.25	20.82	32.2	35.11	0.0301	0.01417	0.07114
878	582804.75	4141191.75	30.5	23.51	17.89	27.64	30.3	0.0260	0.01220	0.06128
879	582831.88	4141288	26.69	20.55	15.57	24.06	26.52	0.0227	0.01066	0.05352
880	582859	4141384.25	23.63	18.13	13.72	21.18	23.48	0.0200	0.00941	0.04727
		Max	**609.88**	**531.12**	**457.36**	**526.02**	**597.04**	0.544284	0.25581348	1.28451024