SOCIOECONOMIC ANALYSIS PROPOSED RULE

REGULATION 9, RULE 8: NITROGEN OXIDES AND CARBON MONOXIDE FROM STATIONARY INTERNAL COMBUSTION ENGINES

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Prepared for

Bay Area Air Quality Management District

Prepared by

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1. EXECUTIVE SUMMARY

INTRODUCTION

This report describes the socioeconomic impacts of proposed Regulation 9, Rule 8 that, if implemented, will help the Bay Area Air Quality Management District (District) to achieve and maintain state ambient air quality standards for ozone and particulate matter. Following this summary, the report summarizes the proposed rule requirements and describes the methodology for the socioeconomic analysis. The report also describes the economic characteristics of sites affected by the proposed rule along with the socioeconomic impacts of the proposed rule.

SUMMARY

The proposed rule affects 65 private sector sites in 24 Bay Area industries. The proposed amendments also impact 27 local government and non-profit agencies in the Bay area, as well as a number of state and federal government agencies. Combined, the impacted private sector sites generate sales of approximately \$34.3 billion annually. Annual profits for these businesses are estimated at nearly \$1.88 billion.

Revenues for the impacted local government and non-profit sites are approximately \$7.4 billion. Revenues for state and federal government agencies are subject to annual budget processes at the state and federal level. Impacts to these agencies have not been analyzed for this report.

The analysis concludes that the costs associated with compliance will not result in significant economic dislocation or job losses. The total annual cost of compliance is far below the 10 percent of profits threshold for significant impact for affected private sector sites. For affected local government and non-profit sites, the annual compliance costs are below the 10 percent of revenues threshold for significant impact. Additionally, it is believed that small businesses will not be disproportionately impacted by the proposed rule.

2. DESCRIPTION OF THE PROPOSED RULE

CURRENT STATUS OF THE RULE

Regulation 9, Rule 8 was originally adopted in 1993. It regulates the emissions of NOx and CO from stationary internal combustion engines of 250 bhp or greater powered by gaseous fuels such as natural gas or LPG. The current rule does not include emissions limits for liquid-fueled engines, such as those using diesel, or engines below 250 bhp. The rule also exempts engines used in agriculture, emergency standby engines, and low usage engines – engine less than 1000 bhp are limited to 200 hours or operation per year, and engines greater 1000 bhp are limited to 100 hour per year.

PROPOSED RULE AMENDMENTS

The proposed amendments will change the current rule in three primary ways:

- 1) Emission limits will be expanded to include IC engines of 50 to 250 bhp
- 2) The emission limits will now also apply to liquid-fueled engines, such as those using diesel
- 3) NOx emission limits will be reduced to reflect the most stringent limits in the State

EMISSIONS REDUCTIONS

BAAQMD estimates that the proposed rule will reduce NOx emissions by 9.6 tons per day (tpd). PM emission reductions are expected to total 1.2 tpd.

3. IMPACT OF PROPOSED RULE AMENDMENTS

This section of the socioeconomic analysis describes demographic and economic trends in the San Francisco Bay Area (Bay Area) region. Following an overview of the methodology for the socioeconomic analysis, the first part of this section compares the Bay Area against California and provides a context for understanding demographic and economic changes that have occurred within the Bay Area between 1995 and 2005. After an overview of Bay Area industries, we focus on the following industries:

- NAICS 2123, Nonmetallic Mineral Mining and Quarrying
- NAICS 213112, Support Services for Oil and Gas Operations
- NAICS 2211, Electric Power Generation, Transmission, and Distribution
- NAICS 237, Heavy and Civil Engineering Construction
- NAICS 23891, Site Preparation Contractors
- NAICS 32411, Petroleum Refineries
- NAICS 324121, Asphalt Paving Mixture and Block Manufacturing
- NAICS 325, Chemical Manufacturing
- NACIS 327, Nonmetallic Mineral Product Manufacturing
- NACIS 331, Food Manufacturing
- NACIS 332, Fabricated Metal Product Manufacturing
- NACIS 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing
- NACIS 334, Computer and Electronic Product Manufacturing
- NACIS 3391, Medical Equipment and Supplies Manufacturing
- NACIS 42471, Petroleum Bulk Stations and Terminals
- NACIS 4521, Department Stores
- NACIS 481, Air Transportation
- NACIS 484, Truck Transportation
- NACIS 531, Real Estate
- NACIS 5617, Services to Buildings and Dwellings
- NACIS 5622, Waste Treatment and Disposal
- NACIS 622, Hospitals
- NACIS 623, Nursing and Residential Care Facilities

NACIS 812, Personal and Laundry Services

Then the impacts from the proposed changes to Regulation 9, Rule 8 on businesses within these industries are analyzed. For the purposes of this report, the Bay Area region is defined as Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, and portions of Solano, and Sonoma Counties.

METHODOLOGY

The socioeconomic analysis of the proposed rule concerning nitrogen oxides and carbon monoxide from stationary internal combustion engines involves the use of information provided directly by BAAQMD. In addition, it utilizes secondary data used to describe the industries affected by the proposed rule. Based on information provided by BAAQMD staff, ADE determined that the impacts would affect businesses in 24 Bay Area industries (listed in the preceding section).

With this information we began to prepare economic descriptions of the industry groups of which the impacted sites are a part, as well as to analyze data on the number of jobs, sales levels, the typical profit ratios and other economic indicators for the Bay Area businesses. ADE also reviewed and summarized documents available to the public such as annual reports for publicly traded companies.

With the annual reports and data from the US Economic Census and the IRS, ADE was able to estimate revenues and profit ratios for the sites impacted by the proposed rule. In calculating aggregate revenues generated by impacted businesses in the Bay Area, ADE estimated average annual revenues using the 2002 US Economic Census¹ and Dunn and Bradstreet data. Using the IRS Statistics and Income Integrated Business Data and other publicly available data, ADE calculated ratios of profit per dollar of sales for the businesses on which the analysis focused. To estimate

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¹ The average revenue estimates were calculated per Bay Area establishment and inflated to current dollars.

employment, ADE used employment data from the California Employment Development Department.

The result of the socioeconomic analysis shows what proportion of profit the compliance costs represent. Based on a given threshold of significance, ADE discusses in the report whether the affected sites are likely to reduce jobs as a means of recouping the cost of compliance or as a result of reducing business operations. To the extent that such job losses appear likely, the indirect multiplier effects of the job losses are estimated using a regional IMPLAN input-output model.

REGIONAL DEMOGRAPHIC TRENDS

The Bay Area experienced moderate population growth from 1995 to 2005. Between 1995 and 2000, the nine-county region increased by nearly 7.2 percent, from 6.3 million in 1995 to almost 6.8 million in 2000. From 1995 to 2005, the population increase was from 6.3 million to close to 7.1 million for an increase of approximately 11.2 percent. During the same time period, California had population growth of over 16 percent.

Within the Bay Area, the greatest percentage increase occurred in Contra Costa County. From 1995 to 2005 Contra Costa increased its population by over 17 percent. All other Bay Area counties had population increases slower than the State. The smallest percentage increase occurred in Marin County where population grew less than 6 percent from 1995 to 2005. Table 1 shows the population changes that have occurred in the Bay Area and California from 1995 to 2005.

Table 1
Population Growth: San Francisco Bay Area

| | | Perc | ent Cha | nge | | |
|----------------------|------------|------------|------------|------|------|-------|
| | | | | 95- | 00- | 95- |
| | 1995 | 2000 | 2005 | 00 | 05 | 00 |
| California | 31,617,000 | 33,871,648 | 36,728,196 | 7.1% | 8.4% | 16.2% |
| Bay Area | 6,329,800 | 6,783,760 | 7,067,403 | 7.2% | 4.2% | 11.2% |
| Alameda County | 1,332,900 | 1,443,741 | 1,500,228 | 8.3% | 3.9% | 12.6% |
| Contra Costa County | 869,200 | 948,816 | 1,019,101 | 9.2% | 7.4% | 17.2% |
| Marin County | 238,100 | 247,289 | 251,820 | 3.9% | 1.8% | 5.8% |
| Napa County | 116,800 | 124,279 | 132,990 | 6.4% | 7.0% | 13.9% |
| San Francisco County | 741,600 | 776,733 | 792,952 | 4.7% | 2.1% | 6.9% |
| San Mateo County | 673,300 | 707,161 | 719,655 | 5.0% | 1.8% | 6.9% |
| Santa Clara County | 1,568,200 | 1,682,585 | 1,752,653 | 7.2% | 4.2% | 11.8% |
| Solano County | 368,000 | 394,542 | 420,307 | 7.2% | 6.5% | 14.2% |
| Sonoma County | 421,700 | 458,614 | 477,697 | 8.9% | 4.2% | 13.3% |

Source: Applied Development Economics, based on household population estimates from The California Department of Finance

REGIONAL ECONOMIC TRENDS

The Bay Area is one of the world's greatest regional economies. It benefits from pre-eminent knowledge-based industries, with competitive strength flowing from an unmatched culture of entrepreneurship, world-leading research institutions, and some of the nation's best educated and most highly skilled workforce. With these remarkable advantages, it has led through innovation in a wide range of research and industrial fields.

Many of the Bay Area's most prominent industries are manufacturing related. From Intel to PowerBar, Bay Area manufacturers are often high profile companies with world-renowned recognition. From small to large, Bay Area industry has been dynamic, creating wealth and jobs in both the export sector and local serving industries.

The economic base is typically comprised of export industries within the manufacturing, minerals-resource extraction, and agricultural sectors. There are also the "local support industries" such as retail or service sectors, the progress of which is a function of the economic base and demographic changes, and more so the latter than the former. As population increases in a given area, demand for services – such as realtors, teachers, healthcare – increases, as does

demand for basic retail items like groceries, gas for commuting, or clothing at the local apparel shops.

As of 2005, the professional and business services sector was the largest employer in the region, at 529,100 jobs or 17 percent of all private and public sector jobs. This is a change from 1995 when professional and business services accounted for 16 percent of all Bay Area employment. During the same period, professional and business services increased 14 percent. The next largest industry in the Bay Area is public service, or government, with 468,100 jobs. In 2005, government accounted for 15 percent of all Bay Area employment. From 1995 to 2005, government had one of the lowest growth rates of all industries at less than 6 percent. Two other industries came close to manufacturing in total employment. Retail trade and education & health care both made up 11 percent of total employment and had only a few thousand jobs less than manufacturing. Unlike manufacturing, both retail trade and education & health care had significant job gains from 1995 to 2005. All other industries made up less than manufacturing in total employment in 2005. Table 2 shows Bay Area industry sectors and their trends from 1995 to 2005.

Table 2
Employment Profile of the San Francisco Bay Area, 1995-2005

| Industry | 1995 | 2000 | 2005 | % of Total Employment in 2005 | % Change 1995 - 2000 | % Change 2000 - 2005 |
|-------------------------------------------|-----------|-----------|-----------|-------------------------------------|----------------------------|-------------------------|
| Farm | 21,100 | 25,800 | 20,000 | 1% | 22% | -22% |
| Natural Resources & Mining | 2,920 | 4,600 | 4,560 | 0% | 58% | -1% |
| Construction | 105,200 | 165,700 | 164,100 | 5% | 58% | -1% |
| Manufacturing | 428,800 | 484,500 | 351,300 | 11% | 13% | -27% |
| Wholesale Trade | 121,700 | 138,800 | 122,900 | 4% | 14% | -11% |
| Retail Trade | 304,900 | 350,600 | 336,600 | 11% | 15% | -4% |
| Transportation, Warehousing and Utilities | 116,600 | 125,600 | 100,400 | 3% | 8% | -20% |
| Information | 92,100 | 151,600 | 112,300 | 4% | 65% | -26% |
| Financial Activities | 189,300 | 198,500 | 213,000 | 7% | 5% | 7% |
| Professional and Business Services | 464,400 | 670,300 | 529,100 | 17% | 44% | -21% |
| Educational and Health Services | 299,300 | 334,300 | 361,600 | 11% | 12% | 8% |
| Leisure and Hospitality | 260,400 | 297,700 | 311,000 | 10% | 14% | 4% |
| Other Services | 100,700 | 110,800 | 109,900 | 3% | 10% | -1% |
| Government | 442,100 | 465,200 | 468,100 | 15% | 5% | 1% |
| Total | 2,949,520 | 3,524,000 | 3,204,860 | 100% | 19% | -9% |

Source: Applied Development Economics from data supplied by the Labor Market Information Division of the California Employment Development Department

DESCRIPTION OF AFFECTED INDUSTRIES

The proposed amendments to Regulation 9, Rule 8 affect industries in the following NAICS codes:

- NAICS 2123, Nonmetallic Mineral Mining and Quarrying
- NAICS 213112, Support Services for Oil and Gas Operations
- NAICS 2211, Electric Power Generation, Transmission, and Distribution
- NAICS 237, Heavy and Civil Engineering Construction
- NAICS 23891, Site Preparation Contractors
- NAICS 32411, Petroleum Refineries
- NAICS 324121, Asphalt Paving Mixture and Block Manufacturing
- NAICS 325, Chemical Manufacturing
- NACIS 327, Nonmetallic Mineral Product Manufacturing
- NACIS 331, Food Manufacturing
- NACIS 332, Fabricated Metal Product Manufacturing
- NACIS 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing
- NACIS 334, Computer and Electronic Product Manufacturing
- NACIS 3391, Medical Equipment and Supplies Manufacturing
- NACIS 42471, Petroleum Bulk Stations and Terminals
- NACIS 4521, Department Stores
- NACIS 481, Air Transportation
- NACIS 484, Truck Transportation
- NACIS 531, Real Estate
- NACIS 5617, Services to Buildings and Dwellings
- NACIS 5622, Waste Treatment and Disposal
- NACIS 622, Hospitals
- NACIS 623, Nursing and Residential Care Facilities
- NACIS 812, Personal and Laundry Services

What follows is a description of these industries, along with their economic trends in the Bay Area, and it provides a comparison between 2001 and 2005. Data in Table 3 below are for all sources, not just the major sites that have been focused on in the Bay Area. Table 3 also shows each of the impacted industries relative to their larger economic sectors. Between 2001 and 2005, employment in ten of the impacted industries has been increasing. In half of these industries, the increase has been despite employment decreases in their larger economic sectors. For the fourteen industries that have experienced employment decreases, nine of them have been in larger economic sectors that also declined in employment during this period. Statewide, employment has increased in nine of the industries; and, only one of the increasing industries part of a was larger sector that was declining.

Table 3
Employment Trends: Industries Affected by Proposed Amendments, 2001 – 2005

| Employment Trends: Industries Affected by Proposed Amendments, 2001 – 2005 | | | | | | | | | | |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------|---------|----------------------------|-----------------------------------|--|--|--|--|--|
| | | 2001 | 2005 | % Change from 2001 to 2005 | Annual % Change from 2001 to 2005 | | | | | |
| BAY AREA | REGION | 2001 | 2005 | 2003 | 10 2003 | | | | | |
| | | | | | | | | | | |
| 21 | MINING Nonmetallic Mineral Mining and | 3,699 | 1,997 | -46.00% | -11.60% | | | | | |
| 2123 | Quarrying | 579 | 839 | 44.87% | 7.70% | | | | | |
| 213112 | Support Services for Oil and Gas Operations | 77 | 343 | 345.67% | 34.84% | | | | | |
| 22 | UTILITIES | 3,821 | 5,876 | 53.79% | 8.99% | | | | | |
| 2211 | Electric Power Generation, Transmission, and Distribution | 3,007 | 2,771 | -7.85% | -1.62% | | | | | |
| 23 | CONSTRUCTION | 192,338 | 188,473 | -2.01% | -0.41% | | | | | |
| 227 | Heavy and Civil Engineering | 10.040 | 17 571 | 4.700/ | 1 200/ | | | | | |
| 237 | Construction | 18,848 | 17,571 | -6.78% | -1.39% | | | | | |
| 23891 | Site Preparation Contractors | 5,092 | 5,903 | 15.93% | 3.00% | | | | | |
| 31 – 33 | MANUFACTURING | 454,329 | 351,300 | -22.68% | -5.01% | | | | | |
| 32411 | Petroleum Refineries | 6,424 | 6,031 | -6.12% | -1.25% | | | | | |
| 324121 | Asphalt Paving Mixture and Block Manufacturing | 18 | 190 | 957.78% | 60.28% | | | | | |
| 325 | Chemical Manufacturing Nonmetallic Mineral Product | 19,262 | 20,301 | 5.39% | 1.06% | | | | | |
| 327 | Manufacturing | 9,593 | 9,411 | -1.90% | -0.38% | | | | | |
| 331 | Food Manufacturing | 5,601 | 4,263 | -23.89% | -5.31% | | | | | |
| | Farbicated Metal Product | 2,223 | ., | | | | | | | |
| 332 | Manufacturing Ventilation, Heating, Air- Conditioning, and Commercial | 28,898 | 21,626 | -25.16% | -5.63% | | | | | |
| 33341 | Refrigeration Equipment Manufacturing Computer and Electronic Product | 650 | 706 | 8.63% | 1.67% | | | | | |
| 334 | Computer and Electronic Product Manufacturing | 218,922 | 149,374 | -31.77% | -7.36% | | | | | |
| 3391 | Medical Equipment and Supplies Manufacturing | 14,769 | 13,395 | -9.30% | -1.93% | | | | | |
| 42 | WHOLESALE TRADE | 135,436 | 122,900 | -9.27% | -1.93% | | | | | |
| | Petroleum Bulk Stations and | | | | | | | | | |
| 42471 | Terminals | 175 | 753 | 330.29% | 33.89% | | | | | |
| 44 – 45 | RETAIL TRADE | 349,816 | 335,744 | -4.02% | -0.82% | | | | | |
| 4521 | Department Stores | 41,871 | 37,324 | -10.86% | -2.27% | | | | | |
| 40 | TRANSPORTATION AND | E2 227 | 00 F20 | E2.070/ | 0.000/ | | | | | |
| 48 | WAREHOUSING | 52,337 | 80,530 | 53.87% | 9.00% | | | | | |
| 481 | Air Transportation | 30,431 | 19,735 | -35.15% | -8.30% | | | | | |
| 484 | Truck Transportation REAL ESTATE AND RENTAL AND | 18,985 | 16,750 | -11.77% | -2.47% | | | | | |
| 53 | LEASING | 61,312 | 61,402 | 0.15% | 0.03% | | | | | |
| 531 | Real Estate; this appears to be a subsidiary of chevron texaco | 41,369 | 44,557 | 7.71% | 1.50% | | | | | |
| 561 | ADMINISTRATIVE AND SUPPORT SERVICES Services to Buildings and | 191,228 | 170,727 | -10.72% | -2.24% | | | | | |
| 5617 | Dwellings | 49,759 | 48,762 | -2.00% | -0.40% | | | | | |
| | WASTE MANAGEMENT AND | _ | | | | | | | | |
| 562 | REMEDIATION SERVICES | 9,718 | 10,333 | 6.33% | 1.23% | | | | | |
| 5622 | Waste Treatment and Disposal | 4,457 | 4,510 | 1.19% | 0.24% | | | | | |

Table 3 (cont.)

| | | Employment Trends: In HEALTH CARE AND SOCIAL | ndustries Affe | cted by Propo | sed Amendments, 2001 – 2005 | |
|---------|--------|--------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|-----------------------------|-----------------|
| | 62 | ASSISTANCE | 276,359 | 283,210 | 2.48% | 0.49% |
| | 622 | Hospitals | 73,395 | 95,187 | 29.69% | 5.34% |
| | | Nursing & Residential Care | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , - | | |
| | 623 | Facilities | 45,715 | 45,103 | -1.34% | -0.27% |
| | | OTHER SERVICES, EXCEPT | | | | |
| | 81 | PUBLIC ADMINISTRATION | 130,973 | 140,159 | 7.01% | 1.36% |
| | 812 | Personal and Laundry Services | 29,464 | 28,757 | -2.40% | -0.48% |
| CALIFOR | NIA | | | | | |
| | 21 | MINING Nonmetallic Mineral Mining and | 23,620 | 22,083 | -6.51% | -1.34% |
| | 2123 | Quarrying Support Services for Oil and Gas | 6,493 | 6,239 | -3.91% | -0.79% |
| | 213112 | Operations | 6,335 | 5,654 | -10.75% | -2.25% |
| | 22 | UTILITIES | 54,468 | 55,742 | 2.34% | 0.46% |
| | | Electric Power Generation, | | | | |
| | 2211 | Transmission, and Distribution | 17,488 | 19,206 | 9.82% | 1.89% |
| | 23 | CONSTRUCTION | 774,145 | 900,684 | 16.35% | 3.07% |
| | 227 | Heavy and Civil Engineering | 00 / 40 | 00.210 | 0.7/0/ | 0.150/ |
| | 237 | Construction | 88,649 | 89,319 | 0.76% | 0.15% |
| 21 22 | 23891 | Site Preparation Contractors | 22,441 1,779,012 | 28,727 | 28.01% -15.77% | 5.06% -3.37% |
| 31-33 | 32411 | MANUFACTURING Petroleum Refineries | 1,779,012 | 1,498,497 12,442 | -15.77% -7.47% | -3.37% |
| | 32411 | Asphalt Paving Mixture and | 13,447 | 12,442 | -1.4770 | -1.54% |
| 3 | 324121 | Block Manufacturing | 747 | 612 | -18.07% | -3.91% |
| | 325 | Chemical Manufacturing | 82,035 | 81,985 | -0.06% | -0.01% |
| | 020 | Nonmetallic Mineral Product | 02,000 | 0.,,00 | 3.3375 | 0.0170 |
| | 327 | Manufacturing | 47,767 | 46,990 | -1.63% | -0.33% |
| | 331 | Food Manufacturing | 29,010 | 24,975 | -13.91% | -2.95% |
| | 000 | Farbicated Metal Product | 4/0.005 | 100 (70 | 44.5007 | 0.000/ |
| | 332 | Manufacturing Ventilation, Heating, Air- Conditioning, and Commercial Refrigeration Equipment | 163,395 | 139,678 | -14.52% | -3.09% |
| | 33341 | Manufacturing | 7,347 | 5,924 | -19.37% | -4.21% |
| | | Computer and Electronic Product | | | | |
| | 334 | Manufacturing | 419,819 | 320,196 | -23.73% | -5.27% |
| | 2201 | Medical Equipment and Supplies | F1 041 | 47.7/0 | 7.070/ | 1 (20) |
| • | 3391 | Manufacturing | 51,841 | 47,762 | -7.87% | -1.63% |
| | 42 | WHOLESALE TRADE Petroleum Bulk Stations and | 652,968 | 671,375 | 2.82% | 0.56% |
| | 42471 | Terminals | 1,614 | 1,860 | 15.24% | 2.88% |
| 44-45 | | RETAIL TRADE | 1,571,994 | 1,650,052 | 4.97% | 0.97% |
| | 4521 | Department Stores | 195,490 | 208,878 | 6.85% | 1.33% |
| | | TRANSPORTATION AND | | · | | |
| 48-49 | | WAREHOUSING | 440,042 | 413,500 | -6.03% | -1.24% |
| | 481 | Air Transportation | 68,001 | 47,556 | -30.07% | -6.90% |
| | 484 | Truck Transportation | 115,134 | 112,939 | -1.91% | -0.38% |
| | | REAL ESTATE AND RENTAL AND | 0// 700 | 202 522 | . 070/ | 4.000 |
| | 53 | LEASING | 266,783 | 283,520 | 6.27% | 1.22% |
| | 531 | Real Estate; this appears to be a subsidiary of chevron texaco | 180,331 | 204,943 | 13.65% | 2.59% |

Table 3 (cont.)
Employment Trends: Industries Affected by Proposed Amendments, 2001 – 2005

| F (4 | ADMINISTRATIVE AND | 040.000 | 047.054 | 0.4007 | 0.000/ |
|---------|-------------------------------|-----------|-----------|---------|--------|
| 561 | | 918,008 | 917,051 | -0.10% | -0.02% |
| F (4 7 | Services to Buildings and | 407.000 | 000 550 | 0.000/ | 0 (50) |
| 5617 | Dwellings | 196,080 | 202,559 | 3.30% | 0.65% |
| | WASTE MANAGEMENT AND | | | | |
| 562 | REMEDIATION SERVICES | 34,960 | 38,793 | 10.96% | 2.10% |
| 5622 | Waste Treatment and Disposal | 16,364 | 13,074 | -20.11% | -4.39% |
| | HEALTH CARE AND SOCIAL | | | | |
| 62 | 2 ASSISTANCE | 1,201,718 | 1,296,611 | 7.90% | 1.53% |
| 622 | P Hospitals | 332,386 | 374,904 | 12.79% | 2.44% |
| | Nursing & Residential Care | | | | |
| 623 | B Facilities | 217,941 | 216,956 | -0.45% | -0.09% |
| | OTHER SERVICES, EXCEPT | | | | |
| 81 | PUBLIC ADMINISTRATION | 587,115 | 685,603 | 16.77% | 3.15% |
| 812 | Personal and Laundry Services | 132,811 | 136,954 | 3.12% | 0.62% |

Source: Calculations by Applied Development Economics; Based upon California Employment Development Department, Quarterly Census of Employment and Wages, BAAQMD

Table 4 identifies the economic characteristics of the specific sites affected by the proposed amendments to Regulation 9, Rule 8. This table shows that there are 65 impacted private sector businesses; and, that they employ an estimated 4,158 workers. These sites have an estimated aggregate payroll of more than \$244 million, and estimated revenues of nearly \$34.3 billion. In calculating aggregate revenues generated by impacted businesses, the consultant utilized a combination of Dunn and Bradstreet data and the 2002 US Economic Census to estimate an average revenue figure per establishment, expressed in current dollars.

Table 4
Economic Characteristics of Impacted Businesses in the San Francisco Bay Area

| | No. of Businesses | E | Stimated Sales Estimated Employment | | Esti | mated Payroll |
|---------------------------------------------------------|----------------------|----|-------------------------------------|-------|------|---------------|
| Heavy and Civil Construction | 3 | \$ | 61,928,026 | 67 | \$ | 4,800,948 |
| Food Manufacturing | 3 | \$ | 152,442,365 | 130 | \$ | 7,108,765 |
| Nonmetallic Mineral Product Manufacturing | 5 | \$ | 204,308,770 | 151 | \$ | 7,444,445 |
| Farbicated Metal Product Manufacturing | 6 | \$ | 129,041,369 | 92 | \$ | 4,557,756 |
| Computer and Electronic Product Manufacturing | 3 | \$ | 79,668,321 | 264 | \$ | 31,991,328 |
| Air Transportation | 3 | \$ | 29,447,524,079 | 559 | \$ | 31,367,405 |
| Real Estate | 3 | \$ | 16,504,282 | 16 | \$ | 843,018 |
| Nonmetallic Mineral Mining & Quarrying | 3 | \$ | 22,536,866 | 79 | \$ | 5,053,160 |
| Electric Power Generation, Transmission, & Distribution | 11 | \$ | 437,684,575 | 802 | \$ | 15,110,207 |
| Waste Treatment & Disposal | 8 | \$ | 56,681,313 | 469 | \$ | 29,240,304 |
| Other ¹ | 17 | \$ | 3,658,282,215 | 1,528 | \$ | 106,526,998 |
| TOTAL | 65 | \$ | 34,266,602,180 | 4,158 | \$ | 244,044,334 |

Source: California Employment Development Department Quarterly Census of Employment and Wages; Minnesota IMPLAN Group; BAAQMD; Calculations by Applied Development Economics.

¹Includes: Chemical Manufacturing (NAICS 325); Truck Transportation (NAICS 484); Hospitals (NAICS 622); Nursing & Residential Care Facilities (NAICS 623); Medical Equipment and Supplies Manufacturing (NAICS 3391); Department Stores (NAICS 4521); Services to Buildings and Dwellings (NAICS 5617); Site Preparation Contractors (NAICS 23891); Petroleum Refineries (NAICS 32411); Ventilation, Heating, Air-Conditiong, and Commercial Refrigeration Equipment Manufacturing (NAICS 33341); Petroleum Bulk Stations and Terminals (NAICS 42471); Support Services for Oil and Gas Operations (NAICS 213112); Asphalt Paving Mixture and Block Manufacturing (NAICS 324121); Other services, except public administration (NAICS 812)

As Table 5 shows, the businesses impacted by the rule amendments represent less than one percent of employment for all impacted industries. Though this overall share is low, some impacted industries are represented at a higher degree. For example, impacted Electric Power Generation, Transmission, and Distribution businesses represent nearly 30 percent of all Bay Area employment in that industry. The impacted sites also represent less than one percent of the State's employment in these industries.

Table 5
Employment at Impacted Sites Relative to Bay Area and California

| | No. of Businesses | inesses Employment % of Bay Area a % | | Impacted Sites as a % of California Total |
|-----------------------------------------------------------|----------------------|--------------------------------------|--------|-------------------------------------------------|
| Heavy and Civil Construction | 3 | 67 | 0.38% | 0.08% |
| Food Manufacturing | 3 | 130 | 3.06% | 0.52% |
| Nonmetallic Mineral Product Manufacturing | 5 | 151 | 1.60% | 0.32% |
| Farbicated Metal Product Manufacturing | 6 | 92 | 0.43% | 0.07% |
| Computer and Electronic Product Manufacturing | 3 | 264 | 0.18% | 0.08% |
| Air Transportation | 3 | 559 | 2.83% | 1.17% |
| Real Estate | 3 | 16 | 0.04% | 0.01% |
| Nonmetallic Mineral Mining and Quarrying | 3 | 79 | 9.38% | 1.26% |
| Electric Power Generation, Transmission, and Distribution | 11 | 802 | 28.95% | 4.18% |
| Waste Treatment and Disposal | 8 | 469 | 10.39% | 3.58% |
| Other ¹ | 17 | 1,528 | 0.48% | 0.11% |
| TOTAL | 65 | 4,158 | 0.70% | 0.18% |

Source: U.S. Economic Census 2002; California Employment Development Department Quarterly Census of Employment and Wages; Minnesota IMPLAN Group; BAAQMD; Calculations by Applied Development Economics.

¹Includes: Chemical Manufacturing (NAICS 325); Truck Transportation (NAICS 484); Hospitals (NAICS 622); Nursing & Residential Care Facilities (NAICS 623); Medical Equipment and Supplies Manufacturing (NAICS 3391); Department Stores (NAICS 4521); Services to Buildings and Dwellings (NAICS 5617); Site Preparation Contractors (NAICS 23891); Petroleum Refineries (NAICS 32411); Ventilation, Heating, Air-Conditiong, and Commercial Refrigeration Equipment Manufacturing (NAICS 33341); Petroleum Bulk Stations and Terminals (NAICS 42471); Support Services for Oil and Gas Operations (NAICS 213112); Asphalt Paving Mixture and Block Manufacturing (NAICS 324121); Other services, except public administration (NAICS 812)

The proposed amendments to Regulation 9, Rule 8 also impact a number of local, state, and federal government and non-profit agencies. Table 6 identifies these agencies and divides them into two groups: 1) local governments and non-profits and 2) state and federal governments.

Table 6 List of Impacted Government Agencies and Non-profits

LOCAL GOVERNMENT AND NON-PROFIT

2200 Pacific Homeowner's Association Central Contra Costa Sanitary District City & County of San Francisco

City of Santa Rosa Wastewater Treatment City of Sunnyvale Water Pollution Control

Contra Costa Water District Delta Diablo Sanitation District

City of San Jose

East Bay Municipal Utility District Fairfield-Suisun Sewer District

Coastside County Water District (San Mateo County)

Las Gallinas Valley Sanitary District Napa Sanitation District - Soscol Oro Loma Sanitary District Pinole-Hercules Wastewater Treatment Plant

San Francisco, City & County, PUC San Mateo Water Quality Control Plant

San Ramon Valley Fire District

Solano County Sonoma County

South Bayside System Authority

South San Francisco-San Bruno Water Quality Plant

The City of Brentwood Town of Windsor

University of San Francisco West Contra Costa County Landfill West County Wastewater District

STATE AND FEDERAL GOVERNMENT

Chabot Community College
Clean Air Vehicle Test Center (an EPA facility)
East Side Unified High School District
Fremont Union High School District
DOE-KAO Sandia National Laboratories
Lawrence Livermore National Laboratory

NASA-AMES Research Center National Park Service Presentation High School Santa Rosa Junior College SF State University, Main Campus

SFSU Housing Facilities (Cogeneration Plant) SJ Unified School Dist - Leland High

Skyline Colleges Travis AFB

Source: BAAQMD

Table 7 then estimates the annual revenues for the local government and non-profit agencies. State and federal government agency revenues are subject to annual budgeting at the state and federal level. They are not approximated for this analysis.

Estimated revenues for impacted local governments and non-profits total nearly \$7.4 billion. The City and County of San Francisco, the City of San Jose, and the Contra Costa County constitute approximately two-thirds of the total. Sonoma County represents approximately seven percent. East Bay Municipal Utility District constitutes five percent. None of the other agencies represent more than five percent of the total.

Table 7
Local Government General Fund and Operating Revenues

| Agency | Revnues |
|---------------------------------------------------|---------------------|
| 2200 Pacific Homeowner's Association | \$ 2,318,653 |
| Central Contra Costa Sanitary District | \$ 54,200,000 |
| City & County of San Francisco | \$ 2,664,546,000 |
| City of Santa Rosa Wastewater Treatment | \$ 126,333,000 |
| City of Sunnyvale Water Pollution Control | \$ 186,261,551 |
| Contra Costa Water District | \$ 92,481,000 |
| Delta Diablo Sanitation District | \$ 28,803,147 |
| City of San Jose | \$ 956,829,159 |
| East Bay Municipal Utility District | \$ 368,421,000 |
| Fairfield-Suisun Sewer District | \$ 17,257,000 |
| Las Gallinas Valley Sanitary District | \$ 5,956,546 |
| Napa Sanitation District - Soscol | \$ 14,143,778 |
| Oro Loma Sanitary District | \$ 26,640,000 |
| Pinole-Hercules Wastewater Treatment Plant | \$ 11,899,397 |
| San Francisco, City & County, PUC | \$ 188,800,000 |
| San Mateo Water Quality Control Plant | \$ 75,100,000 |
| San Ramon Valley Fire District | \$ 40,984,317 |
| Solano County | \$ 193,061,207 |
| Sonoma County | \$ 518,479,924 |
| South Bayside System Authority | \$ 118,968,199 |
| South San Francisco-San Bruno Water Quality Plant | \$ 88,437,083 |
| The City of Brentwood | \$ 6,924,951 |
| Town of Windsor | \$ 11,147,661 |
| University of San Francisco | \$ 247,853,000 |
| Contra Costa County | \$ 1,307,505,097 |
| West County Wastewater District | \$ 12,191,151 |
| TOTAL | \$ 7,365,542,820 |

Source: See Appendix A to the report

COMPLIANCE COSTS

This section discusses the compliance costs associated with the proposed rule. The compliance costs include both capital and operating costs; and, are amortized over ten years. Both the size of the engine and the fuel it uses impact the costs associated with compliance. Table 8 details the annualized costs by engine size and fuel type.

Table 8
Annualized Control Costs

| Engine Size Ranges | No. of Impacted Engines | Annualized Quarterly Monitoring Costs | | Annualized Capital Cost of Control | | lized Operating st of Control | Total Annualized Costs | | |
|---------------------------|----------------------------|---------------------------------------------|---------------|---------------------------------------|------------|----------------------------------|---------------------------|-----------|--|
| DIESEL ENGINES | | | | | | | | | |
| 51-150 | 34 | \$ | 47,396 | \$ | 272,043 | \$ 30,530 | \$ | 349,969 | |
| 151-300 | 32 | \$ | 44,608 | \$ | 256,041 | \$ 78,633 | \$ | 379,282 | |
| 301-500 | 15 | \$ | 20,910 | \$ | 160,027 | \$ 108,273 | \$ | 289,210 | |
| 501-1000 | 15 | \$ | 20,910 | \$ | 397,403 | \$ 292,936 | \$ | 711,249 | |
| 1001-2000 | 3 | \$ | 4,182 | \$ | 101,715 | \$ 117,979 | \$ | 223,876 | |
| < 2001 | 6 | \$ | 8,364 | \$ | 243,672 | \$ 1,007,083 | \$ | 1,259,119 | |
| Totals | 105 | | \$ 146,370 | \$ | 1,430,901 | \$ 1,635,434 | \$ | 3,212,705 | |
| SPARK-IGNITED EI FUEL) | NGINES (FOSSIL | | | | | | | | |
| 51-150 | 35 | \$ | 48,790 | \$ | 130,551 | \$ 52,624 | \$ | 231,965 | |
| 151-300 | 42 | \$ | 58,548 | \$ | 195,992 | \$ 172,387 | \$ | 426,927 | |
| 301-500 | 8 | \$ | 11,152 | \$ | 41,898 | \$ 42,539 | \$ | 95,590 | |
| 501-1000 | 25 | \$ | 34,850 | \$ | 236,164 | \$ 283,722 | \$ | 554,735 | |
| 1001-2000 | 10 | \$ | 13,940 | \$ | 148,256 | \$ 254,850 | \$ | 417,046 | |
| < 2001 | 14 | \$ | 19,516 | \$ | 326,827 | \$ 502,135 | \$ | 848,478 | |
| Totals | 134 | | \$ 186,796 | \$ | 1,079,688 | \$ 1,308,257 | \$ | 2,574,742 | |
| SPARK-IGNITED (V | VASTE FUEL) | | | | | | | | |
| 51-150 | 6 | \$ | 8,364 | \$ | 21,556 | \$ 29,205 | \$ | 59,125 | |
| 151-300 | 0 | \$ | · - | \$ | · <u>-</u> | \$ · <u>-</u> | \$ | · - | |
| 301-500 | 0 | \$ | - | \$ | - | \$ - | \$ | - | |
| 501-1000 | 22 | \$ | 30,668 | \$ | 151,869 | \$ 220,207 | \$ | 402,744 | |
| 1001-2000 | 30 | \$ | 41,820 | \$ | 179,701 | \$ 304,316 | \$ | 525,837 | |
| < 2001 | 15 | \$ | 20,910 | \$ | 164,436 | \$ 342,161 | \$ | 527,507 | |
| Totals | 73 | \$ | 101,762 | \$ | 517,562 | \$ 895,890 | \$ | 1,515,213 | |

Souce: BAAQMD

The proposed rule amendments will impact 312 engines operated by the 65 private sector businesses and 42 government agencies and non-profits. The total cost of compliance for all 312 engines is \$7.3 million. Approximately 94 percent of this cost will be borne by the 65 private sector businesses and 27 local government and non-profit agencies.

BUSINESS RESPONSE TO COMPLIANCE COSTS

Sites impacted by the proposed amendments to the stationary internal combustion engine rule may respond in a variety of ways when faced with new regulatory costs. These responses may range from simply absorbing the costs and accepting a lower rate of return to shutting down the business operation all together. Businesses may also seek to pass the costs on to their customers in the form of higher prices. More likely, they may renew efforts to increase productivity and reduce costs elsewhere in their operation in order to recoup the regulatory costs and maintain profit levels.

IMPACT ANALYSIS

The businesses' responses to increased compliance costs hinge on the effect of the costs on the profits generated at the affected sites. An impact on estimated profits greater than 10 percent implies that the source would experience serious economic effects because of the compliance cost. When compliance costs are greater than 10 percent of estimated profits, companies typically respond to the impact by laying off some workers, reducing hours of operation, or, in the most drastic case, possibly closing operations. A similar response is assumed to occur when the compliance costs exceed 10 percent of the revenues for local government and non-profit agencies.

Using the annual compliance cost estimates developed for the proposed rule amendments, ADE calculated the socioeconomic impacts of the proposed actions. In calculating impacts on profits, ADE used the IRS Statistics of Income Integrated Business Data. Based on this information, we estimate that the impacted businesses generated a combined profit of \$1.88 billion on \$34.3 billion in revenues. Table 9 details the profit ration assumptions used in estimating the profits for impacted private sector sites.

Table 9
Private Sector Profit Margin Assumptions

| NAICS | Description | Profit Margin |
|--------|-------------------------------------------------------------------------------------------------|---------------|
| 237 | Heavy and Civil Construction | 4.11% |
| 311 | • | 5.79% |
| 325 | Food Manufacturing | 5.87% |
| 327 | Chemical Manufacturing | 5.87% |
| ~=- | Nonmetallic Mineral Product Manufacturing | |
| 332 | Fabricated Metal Product Manufacturing | 5.87% |
| 334 | Computer and Electronic Product Manufacturing | 5.87% |
| 481 | Air Transportation | 5.25% |
| 484 | Truck Transportation | 3.64% |
| 531 | Real Estate | 38.83% |
| 622 | Hospitals | 3.87% |
| 623 | Nursing & Residential Care Facilities | 3.87% |
| 2123 | Nonmetallic Mineral Mining and Quarrying | 9.82% |
| 2211 | Electric Power Generation, Transmission, and Distribution | 13.24% |
| 3391 | Medical Equipment and Supplies Manufacturing | 5.53% |
| 4521 | Department Stores | 2.26% |
| 5617 | Services to Buildings and Dwellings | 3.18% |
| 5622 | Waste Treatment and Disposal | 7.22% |
| 23891 | Site Preparation Contractors | 4.33% |
| 32411 | Petroleum Refineries | 7.00% |
| 33341 | Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing | 5.53% |
| 42471 | Petroleum Bulk Stations and Terminals | 2.70% |
| 213112 | Support Services for Oil and Gas Operations | 8.07% |
| 324121 | Asphalt Paving Mixture and Block Manufacturing | 5.53% |
| 812332 | Industrial Launderers | 6.08% |

Source: ADE calculations based upon SEC 10k Annual Reports and IRS Statistics of Income Integrated Business Data

Table 10 details the projected impacts of compliance with the proposed rule amendments on the profits of affected sites. The annual costs associated with compliance do not result in a significant impact on affected private sector sites. For all impacted private sector sites, the annual cost of compliance represents less than one percent of profits. Furthermore, there is not a single industry for which the cost of compliance represents more than ten percent of profits. For most of the industries, the annual cost is well below five percent of profits. The cost is in excess of five percent for only two industries, Waste Treatment and Disposal (7.45 percent) and Nonmetallic Mineral Mining and Quarrying (6.73 percent).

Table 10
Impact of Estimated Compliance Cost on Estimated Private Sector Profits

| Industry | No. of Businesses | Estimated Compliance | | Cost as % of Profits | |
|-----------------------------------------------------------|----------------------|----------------------|------|----------------------------|-------|
| Heavy and Civil Construction | 3 | \$ 2,547,322 | \$ | 83,384 | 3.27% |
| Food Manufacturing | 3 | \$ 8,819,455 | \$ | 108,096 | 1.23% |
| Nonmetallic Mineral Product Manufacturing | 5 | \$ 11,988,162 | \$ | 184,286 | 1.54% |
| Fabricated Metal Product Manufacturing | 6 | \$ 7,571,720 | \$ | 138,532 | 1.83% |
| Computer and Electronic Product Manufacturing | 3 | \$ 4,674,673 | \$ | 117,200 | 2.51% |
| Air Transportation | 3 | \$ 1,545,576,827 | \$ | 147,380 | 0.01% |
| Real Estate | 3 | \$ 6,407,820 | \$ | 145,733 | 2.27% |
| Nonmetallic Mineral Mining and Quarrying | 3 | \$ 2,212,010 | \$ | 148,937 | 6.73% |
| Electric Power Generation, Transmission, and Distribution | 11 | \$ 57,929,408 | \$ | 814,345 | 1.41% |
| Waste Treatment and Disposal | 8 | \$ 3,472,217 | \$ | 258,797 | 7.45% |
| Other ¹ | 17 | \$ 224,706,441 | \$ | 503,237 | 0.22% |
| TOTAL | 65 | \$ 1,875,906,056 | \$ 2 | 2,649,927 | 0.14% |

Source: ADE calculations, based upon 2002 US Economic Census; SEC 10k Annual Reports; IRS Statistics of Income Integrated Business Data; BAAQMD

¹Includes: Chemical Manufacturing (NAICS 325); Truck Transportation (NAICS 484); Hospitals (NAICS 622); Nursing & Residential Care Facilities (NAICS 623); Medical Equipment and Supplies Manufacturing (NAICS 3391); Department Stores (NAICS 4521); Services to Buildings and Dwellings (NAICS 5617); Site Preparation Contractors (NAICS 23891); Petroleum Refineries (NAICS 32411); Ventilation, Heating, Air-Conditiong, and Commercial Refrigeration Equipment Manufacturing (NAICS 33341); Petroleum Bulk Stations and Terminals (NAICS 42471); Support Services for Oil and Gas Operations (NAICS 213112); Asphalt Paving Mixture and Block Manufacturing (NAICS 324121); Other services, except public administration (NAICS 812)

Table 11 illustrates the cost of compliance as a percent of revenue for affected local government and non-profit sites; and, shows that the rule amendments do not result in a significant impact for these agencies either. Total revenues for affected local governments and non-profits are \$7.4 billion. The total annual cost of compliance is \$4.3 million, less than one percent.

Table 11
Impact of Estimated Compliance Cost on Local Government and Non-Profit Revenues

| Revnues ¹ | Annual Compliance Cost | Cost as % of Revenues |
|----------------------|------------------------|--------------------------|
| \$ 7,365,542,820 | \$ 4,241,399 | 0.06% |

Source: ADE Calculations, based upon BAAQMD

¹Sources for local government and non-profit revenue are cited in Appendix A to this report.

IMPACT ON SMALL BUSINESS

DEFINITION OF SMALL BUSINESS PER CALIFORNIA STATUTE

For purposes of qualifying small businesses for bid preferences on state contracts and other benefits, the State of California defines small businesses in the following manner:

- Must be independently owned and operated;
- Cannot be dominant in its field of operation;
- Must have its principal office located in California
- Must have its owners (or officers in the case of a corporation) domiciled in California; and,
- Together with its affiliates, be either:
 - A business with 100 or fewer employees, and an average gross receipts of \$10 million or less over the previous tax years, or
 - A manufacturer with 100 or fewer employees

SMALL BUSINESS IMPACT ANALYSIS

Most of the affected private sector sites generate annual revenues in excess of \$10 million. Less than one-third of them (31 percent; 20 sites) do not. Employment at each of these sites is estimated to be less than 100. Since the total cost of compliance for these 20 sites is less than \$475,000, or 18 percent of the total, small businesses are not disproportionately impacted by the proposed rule amendments.

APPENDIX A: LOCAL GOVERNMENT AND NON-PROFIT REVENUE SOURCE CITATIONS

Central Contra Costa Sanitary

District

2200 Pacific Homeowner's

Association

City & County of San Francisco

City of Santa Rosa Wastewater

Treatment

City of Sunnyvale Water Pollution

Control

Contra Costa Water District **Delta Diablo Sanitation District**

City of San Jose

East Bay Municipal Utility District

Fairfield-Suisun Sewer District Las Gallinas Valley Sanitary

District

Napa Sanitation District - Soscol Oro Loma Sanitary District

Pinole-Hercules Wastewater

Treatment Plant

San Francisco, City & County,

PUC

San Mateo Water Quality Control

Plant

San Ramon Valley Fire District

Solano County Sonoma County

South Bayside System Authority

South San Francisco-San Bruno

Water Quality Plant The City of Brentwood

Town of Windsor

University of San Francisco

Contra Costa County

West County Wastewater District

http://www.centralsan.org/organization/finance.html

2002 US Economic Census

City and County of San Francisco Consolidated Budget and Annual Appropriation

Ordinance, Fiscal Year Ending June 30, 2007

http://ci.santa-rosa.ca.us/default.aspx?PageId=2053

http://sunnyvale.ca.gov/Departments/Finance/Budget/

http://www.ccwater.com/welcome/financials.asp http://www.ddsd.org/pdfs/Budget_Document.pdf

http://www.sanjoseca.gov/budget/

http://www.ebmud.com/about_ebmud/financial_information/default.htm

http://www.fssd.com/indexSub.cfm?page=1367700

http://lafco.marin.org/District_revu.cfm?DistrictID=31

http://www.napasanitationdistrict.com/about/finances.html http://www.oroloma.org/management/budget/budget.html

http://www.ci.pinole.ca.us/about/finance_issues.html

http://sfwater.org/detail.cfm/MC_ID/18/MSC_ID/133/C_ID/3281

http://www.cityofsanmateo.org/downloads/finance/2006-

7 finances at a glance.pdf

Comprehensive Annual Financial Report, Year Ended June 30, 2005

http://www.co.solano.ca.us/FileDownloads/Downloads.asp?NavID=183 http://www.sonoma-county.org/auditor/financial_reports.htm#revenue

http://www.ci.san-carlos.ca.us/civica/filebank/blobdload.asp?BlobID=3093

http://www.belmont.gov/SubContent.asp?CatId=240001609&C ID=240002235 http://www.belmont.gov/SubContent.asp?CatId=240001609&C_ID=240002235 http://www.westbaysanitary.org/pdf/AuditedApprovedBudget2005-06.pdf

http://sanbruno.ca.gov/city_services/finance/Documents/06_07Budget.pdf

http://www.ci.ssf.ca.us/civica/filebank/blobdload.asp?BlobID=9098

http://www.ci.brentwood.ca.us/department/finance/past_fiscal_year_docs.cfm#2005

http://www.ci.windsor.ca.us/3031.html#GeneralFundFinancialOverview

Dunn and Bradstreet

http://www.co.contra-costa.ca.us/depart/cd/recycle/options/v5126.htm

http://www.wcwd.org/index.htm