

# **Draft Environmental Impact Report (Draft EIR)**

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for

**Los Angeles International Airport (LAX)  
Crossfield Taxiway Project**

**Volume 3**

## **Appendices D through H**

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Appendix D  
LAX Crossfield Taxiway Project Draft EIR

**Human Health Risk Assessment**

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# 1. INTRODUCTION

## 1.1 Purpose

This report presents the human health risk assessment (HHRA) for the Crossfield Taxiway Project (CFTP) construction activities compared to baseline (2007) conditions. The LAX Master Plan Final EIR<sup>1</sup> previously examined incremental health risks due to inhalation of toxic air contaminants (TACs)<sup>2</sup> from operational sources associated with four build alternatives and the No Action/No Project Alternative (see Technical Report 14a of the LAX Master Plan Final EIR). Incremental impacts were those impacts above the 1996 environmental baseline conditions used. Because project level details were not available regarding construction phasing, the programmatic level LAX Master Plan Final EIR did not address health risk associated with construction activities of any of the individual LAX Master Plan components, including the CFTP. Health risk associated with construction activities were addressed in the Final EIR prepared for the first LAX Master Plan project that was constructed, the South Airfield Improvement Project (SAIP).<sup>3</sup> Because the SAIP construction required that Runway 25L be shutdown for an extended period, the HHRA for SAIP also addressed health risks associated with operational changes. The proposed CFTP would provide a new crossfield taxiway and other associated improvements to help reduce existing aircraft congestion and reduce delays that periodically occur on the existing crossfield taxiway system and on adjacent taxiways. Construction of the project would result in temporary emissions of various air pollutants from construction equipment, worker's commute, truck haul delivery trips, surface paving, taxiway striping, and demolition/material crushing and grading activities (i.e., fugitive dust). The objective of this HHRA is to determine the increased incremental health impacts, if any, associated with construction of the CFTP for people working at the airport, and for people living, working, or attending school in communities near the airport.

Improvements to airport operations associated with the CFTP (e.g., reduced aircraft taxiing/idling times) would not be realized until after construction is complete. During construction, operational changes are expected to be minimal; therefore, changes in emissions associated with operations are not evaluated in this HHRA. Thus, the only notable emissions associated with the CFTP are emissions from construction sources. These emissions form the basis for estimating impacts from TAC, and baseline concentrations for the CFTP are assumed to be zero. That is, in the absence of CFTP construction, no construction associated TACs would be released. Possible human health risks are estimated using modeled TAC concentrations in air without any background correction by using standard methods developed by CalEPA and USEPA.

This HHRA addresses potential impacts to human health associated with releases of TACs that are anticipated to occur during the construction period of the CFTP. Health impacts were evaluated for chronic cancer and non-cancer health impacts and for acute non-cancer health hazards. An impact was considered significant if incremental cancer or non-cancer hazards exceeded regulatory thresholds.

## 1.2 General Approach

The CFTP would relieve airfield congestion and reduce operational emissions once completed. The cumulative effect on airport operational TAC emissions of this project, taken along with the effects of all LAX Master Plan projects were addressed in the LAX Master Plan Final EIR, as noted above. Therefore, this HHRA focuses on the construction sources of TAC emissions. Cancer risk, chronic non-cancer hazard, and acute hazard analyses for this HHRA consisted of two components: (1) estimation of

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<sup>1</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

<sup>2</sup> In the LAX Master Plan Final EIR, these were referred to as toxic air pollutants (TAPs). In this EIR, the term "toxic air contaminants," or TACs, is used to reflect California regulatory terminology.

<sup>3</sup> City of Los Angeles, Los Angeles World Airports, Draft Environmental Impact Report for South Airfield Improvement Project, Los Angeles International Airport (LAX), August 2005.

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emissions of TACs associated with project construction, and subsequent dispersion of those emissions to downwind receptor locations; and (2) determination of incremental health risks associated with those emissions. Specifically, this HHRA estimated possible future emissions associated with the CFTP construction. Estimated future emission rates from CFTP sources were then used as inputs, along with meteorological and geographic information, to an air dispersion model. The model predicted potential future concentrations of TACs within the study area around the airport.

Potential impacts to human health were estimated using methods developed by the California Environmental Protection Agency (CalEPA) and the U.S. Environmental Protection Agency (USEPA), as described further below. Health impacts were evaluated for cancer, chronic non-cancer, and for acute non-cancer health impacts using emissions estimates and air dispersion modeling discussed above.

Results of the analyses were interpreted by comparing incremental cancer risks and non-cancer hazards to regulatory thresholds. These comparisons were made for maximally exposed individuals (MEI) at locations where concentrations of TACs were predicted by air dispersion modeling. An impact was considered significant if incremental risks or hazards to MEI exceeded regulatory thresholds. Initially, off-site receptors (residents, workers, and students) were assessed only at locations of maximum predicted concentrations (1-hour or annual average). If concentrations of chemicals released during construction were below levels of concern at points of greatest impact (typically along the fence line), then impacts would not be anticipated for other locations where concentrations would be lower. However, risks and hazards were assessed at nearby schools to provide direct information on potential construction impacts on students, faculty, and staff at these locations.

Methods for estimating cumulative impacts followed the approach used for the LAX Master Plan Final EIR. The present analysis, however, used findings from the Multiple Air Toxics Exposure Study in the South Coast Air Basin (MATES-III) completed by the South Coast Air Quality Management District (SCAQMD) to evaluate cumulative cancer risks instead of information from the older MATES-II study. The analysis again used data presented in USEPA's National Air Toxics Assessment to evaluate cumulative chronic, non-cancer health hazards. For cumulative, acute risks, conservative (likely to overestimate) approximations of short-term concentrations were made using generic conversion factors and the annual average estimates of acrolein and formaldehyde in air from USEPA. The estimates are subject to much uncertainty, as further described in Section 5, but can be used to provide a semi-quantitative evaluation of the possible range of cumulative impacts.

In addition, cumulative impacts were assessed for construction impacts for a second Master Plan project, the TBIT Reconfiguration Project, as well as several non-Master Plan projects, that are expected to overlap the end of CFTP construction. Construction emissions for these projects were obtained from environmental documents prepared for these projects, where such documents were available, or were developed based on estimated equipment inventories developed by CDM in consultation with LAWA. Based on these data, it was possible to address the combined impacts relative to toxic air contaminants by a comparison of emission rates during the time when construction of the two projects would be ongoing concurrently. The methods for conducting this HHRA are presented in Section 2, TAC emission calculation approach and results and a discussion of the dispersion analysis are presented in Section 3, associated health risks are presented in Section 4, and uncertainties are discussed in Section 5.



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## 2. METHODOLOGY

An HHRA was conducted based on incremental TAC emissions associated with CFTP construction activities in 2009 and 2010 assuming that environmental baseline construction emissions are zero (0). The HHRA was conducted in four steps as defined in SCAQMD, CalEPA, and USEPA guidance<sup>4,5,6</sup> consisting of:

- ◆ Identification of chemicals (in this case, TACs) that may be released in sufficient quantities to present a public health risk (Hazard Identification)
- ◆ Analysis of ways in which people might be exposed to chemicals (TACs) (Exposure Assessment)
- ◆ Evaluation of the toxicity of chemicals (TACs) that may present public health risks (Toxicity Assessment)
- ◆ Characterization of the magnitude and location of potential health risks for the exposed community (Risk Characterization)

Analyses for the CFTP Draft EIR address the following issues, and provide additional information on potential for human health impacts:

- ◆ Quantitative assessment of potential chronic human health impacts due to release of TACs associated with CFTP construction activities.
- ◆ Quantitative evaluation of possible acute non-cancer hazards due to release of TACs during the approximately 16 month construction period associated with the CFTP.

Conservative methods were used to estimate human health risks and hazards. That is, methods were used that are much more likely to overestimate than underestimate possible health risks. For example, risks associated with CFTP construction activities were calculated for individuals at locations along the LAX fence-line where TAC concentrations are predicted to be highest (maximally exposed individual, MEI). For the CFTP, the HHRA also evaluates the potential for short-term (1-hour) exposures to cause immediate, or acute, health impacts. Resulting incremental risk estimates represent upper-bound predictions of exposure, and therefore health risk, which may be associated with living near, and breathing emissions from, LAX during construction. By protecting hypothetical individuals that receive the highest exposures, the risk assessment is also protective for actual members of the population near LAX that would not be as highly exposed.

Generally, methods used in preparation of the assessment provided in the LAX Master Plan Final EIR, as described in Technical Reports 14a and S-9a of that EIR, were used in this analysis. The Final EIR concluded that emissions of 1,3-butadiene, benzene, formaldehyde, and acrolein from aircraft, and of diesel particulates from ground support equipment as well as from trucks and construction equipment, are responsible for nearly all potential health risks posed by airport operations. Based on analysis of cumulative impacts, the LAX Master Plan Final EIR concluded that the airport is a relatively minor source

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<sup>4</sup> South Coast Air Quality Management District, Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics Hot Spots Information and Assessment Act (AB2588), July 2005.

<sup>5</sup> California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Risk Assessment Guidelines, Part I: Technical Support Document for the Determination of Acute Reference Exposure Levels for Airborne Toxicants, March 1999. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxic Hot Spots Program Risk Assessment Guidelines, Part IV: Technical Support Document for Exposure Assessment and Stochastic Analysis, September 2000. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Risk Assessment Guidelines, Part III: The Determination of Chronic Reference Exposure Levels for Airborne Toxicants, February 23, 2000. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Risk Assessment Guidelines, Part II: Technical Support Document for Describing Available Cancer Potency Factors, updated August 2003. California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, August 2003.

<sup>6</sup> U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Risk Assessment Guidance for Superfund, Vol. I, Human Health Evaluation Manual (Part A), Interim Final, EPA/540/1-89/002, December, 1989.

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of these TACs, and that improvements in airport operations as a result of implementing the LAX Master Plan, of which the CFTP is a part, could reduce the overall contribution of the airport to TAC emissions below that anticipated in the absence of improvements at the airport, i.e., the No Action/No Project Alternative.

### **2.1 Selection of TACs of Concern**

TACs of concern used in this HHRA were based on the list developed for the LAX Master Plan Final EIR, as described in Technical Report 14a, Section 3, of that EIR. TACs of concern for the LAX Master Plan were selected based on identification of chemicals as TACs in federal and state regulations, current or future presence in emissions at LAX, magnitude of possible emissions, and toxicity. Since the release of the LAX Master Plan Final EIR, current technical literature has not indicated a change in the selection process is needed; therefore, the previous selection process remains valid.

However, to focus the CFTP HHRA analysis on those TACs most likely to produce substantial incremental risks, the Long Beach Airport Terminal Area Improvement Project Draft EIR,<sup>7</sup> LAX South Airfield Improvement Project (SAIP) Draft EIR,<sup>8</sup> LAX Master Plan Final EIR,<sup>9</sup> Oakland International Airport - Airport Development Program (ADP) Draft Supplemental EIR,<sup>10</sup> and the Civilian Reuse of MCAS El Toro Draft EIR, Draft Supplemental Analysis<sup>11</sup> were reviewed. These documents represent the most recent EIRs conducted in California that assessed potential human health risk from airport operations.

The Long Beach Airport Terminal Area Improvement Project Draft EIR indicated that diesel particulate matter, 1,3-butadiene (to a lesser extent), and hexavalent chromium were the drivers of cancer risks for residents. Diesel particulate matter accounted for 65 to 87 percent and hexavalent chromium accounted for 9 to 30 percent of the cancer risk, depending on the receptor and the horizon year evaluated. Chronic non-cancer hazards for residents were mainly due to possible exposure to acrolein, (36-42 percent) and to a lesser extent, manganese (28-33 percent) and formaldehyde (16-18 percent). Acrolein accounted for nearly all acute risks.

The LAX South Airfield Improvement Project (SAIP) Draft EIR indicated that diesel particulate matter, 1,3-butadiene, formaldehyde, and benzene were the drivers of cancer risks. Diesel particulate matter accounted for 6 to 37 percent and 1,3-butadiene accounted for 42 to 62 percent of the cancer risk, depending on the receptor. Acrolein accounted for approximately 97 percent of the chronic non-cancer hazard and most acute risks.

The LAX Master Plan Final EIR, Technical Report 14a, Table 9, provided cancer risk for the No Action/No Project Alternative in 2005. Residential cancer risks were driven by diesel particulate matter (70 to 72 percent), 1,3-butadiene (15 percent), benzene (10 to 11 percent), and formaldehyde (2 to 3 percent). Non-cancer chronic health hazards were driven by acrolein (70 to 100 percent), diesel particulate matter (up to 2 percent), and acetaldehyde, naphthalene, and manganese (up to 1 percent each).

The Oakland International Airport ADP Draft Supplemental EIR, Appendix C, indicated that diesel particulate matter, 1,3-butadiene, benzene, acrolein, and formaldehyde were the drivers of cancer and non-cancer risks. Diesel particulate matter accounted for 54 to 60 percent and 1,3-butadiene accounted for 23 percent of the cancer risk. Acrolein accounted for approximately 75 percent of the chronic non-cancer hazard, with some contribution from formaldehyde. Acrolein also accounted for most acute risks.

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<sup>7</sup> City of Long Beach, [Long Beach Airport Terminal Area Improvement Project Draft EIR](#), September 2005.

<sup>8</sup> City of Los Angeles, Los Angeles World Airports, [Draft Environmental Impact Report for South Airfield Improvement Project, Los Angeles International Airport \(LAX\)](#), August 2005.

<sup>9</sup> City of Los Angeles, [Final Environmental Impact Report for Los Angeles International Airport \(LAX\) Proposed Master Plan Improvements](#), April 2004.

<sup>10</sup> Port of Oakland, [Draft Oakland International Airport – Airport Development Program \(ADP\) Supplemental Environmental Impact Report](#), September 2003.

<sup>11</sup> County of Orange, [Draft Environmental Impact Report No. 573 for the Civilian Reuse of MCAS El Toro and the Airport System Master Plan for John Wayne Airport and Proposed Orange County International Airport, Draft Supplemental Analysis](#), April 2001.

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The MCAS El Toro Draft Supplemental Analysis, Section 2.17, provided cancer and non-cancer risks for the proposed Orange County International Airport. The analysis indicated that diesel particulate matter contributed approximately 86 percent to the cancer risk, with various ROGs contributing 9 percent and metals contributing 5 percent. Non-cancer hazards were primarily attributable to acrolein. The report also indicated that diesel particulate matter and chromium were the primary drivers of cancer risk associated with operations at John Wayne Airport.

Based on this review and California Air Resources Board (CARB)-preferred speciation profiles (see discussion in Section 3.1 of this appendix), the original list of TACs included in the detailed HHRA prepared for the LAX Master Plan Final EIR was modified for the CFTP HHRA. TACs of concern for the LAX Master Plan were reviewed to select TACs associated with construction activities. From this specific list of TACs, TACs were further screened based on the availability of chronic or acute reference exposure levels (RELs), or cancer potency slopes from Cal EPA's Office of Environmental Health Hazard Assessment (OEHHA). The final list of TACs of concern for the CFTP is presented in **Table 1**. Emission estimates for individual TAC were developed by applying the appropriate CARB speciation profile to construction source emissions of ROG and PM10. In particular, Organic Profile No. 818 was applied to diesel engine ROG emissions, Organic Profile No. 441 was applied to gasoline engine ROG emissions, Organic Profile No. 715 was applied to paving ROG emissions, Organic Profile No. 1811 was applied to taxiway/roadway painting and striping ROG emissions, Particulate Profile No. 425 was applied to diesel engine PM10 emissions, Particulate Profile No. 400 was applied to gasoline engine PM10 emissions, Particulate Profile No. 420 was applied to fugitive dust PM10 emissions, and Particulate Profile No. 343 was applied to concrete batch plant emissions. Finally, those TACs with acute OEHHA RELs were included in the acute health hazards assessment.

As discussed in the LAX Master Plan Final EIR,<sup>12</sup> acrolein is the TAC of concern that is responsible for essentially all predicted chronic non-cancer health hazards associated with LAX operations and is primarily associated with aircraft emissions. Acrolein is also the only TAC of concern in emissions from LAX that might be present at concentrations approaching a threshold for acute effects and was therefore the only TAC evaluated for potential acute effects in the LAX Master Plan Final EIR. However, for the CFTP, all TACs with RELs, not just acrolein, were evaluated for potential acute health impacts since aircraft emissions, the major source of acrolein, were not included in emission estimates for the CFTP. TACs that do not have OEHHA-assigned RELs or cancer potency slopes are discussed in the Uncertainties Section.

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<sup>12</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

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Table 1

Toxic Air Contaminants of Concern for the CFTP

Toxic Air Contaminant	Type
Acetaldehyde	ROG
Acrolein	ROG
Benzene	ROG
1,3-Butadiene	ROG
Ethylbenzene	ROG
Ethyl glycol	ROG
Formaldehyde	ROG
n-Hexane	ROG
Isopropyl alcohol	ROG
Methyl alcohol	ROG
Methyl ethyl ketone	ROG
Methyl t-butyl ether	ROG
Propylene	ROG
Styrene	ROG
Toluene	ROG
Xylene (total)	ROG
Naphthalene	PAH
Antimony	PM-Metal
Arsenic	PM-Metal
Cadmium	PM-Metal
Chromium VI	PM-Metal
Copper	PM-Metal
Lead	PM-Metal
Manganese	PM-Metal
Mercury	PM-Metal
Nickel	PM-Metal
Selenium	PM-Metal
Silicon	PM-Metal
Vanadium	PM-Metal
Zinc	PM-Metal
Diesel PM	Diesel Exhaust
Ammonium Ion	PM-Inorganics
Bromine	PM-Inorganics
Chlorine	PM-Inorganics
Sulfates	PM-Inorganics

Source: CDM, 2008.

## 2.2 Exposure Assessment

The exposure assessment examines inhalation exposures to TACs of concern for several populations, consisting of on-airport workers, off-airport workers, resident children, school children, and resident adults. Analyses of cancer risk and non-cancer hazards, both chronic and acute are included in the exposure assessment for these receptors. Chronic and acute exposure to TACs from CFTP construction activities has been estimated by:

- ◆ Estimation of construction source emissions, both annual (for chronic exposure) and peak daily (for acute exposure)
- ◆ Dispersion analysis of the on-airport construction TAC emissions using AERMOD<sup>13</sup>

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<sup>13</sup> U.S. Environmental Protection Agency, *User's Guide for the AMS/EPA Regulatory Model – AERMOD*, EPA-454/B-03-001, September 2004.

The anticipated duration of the project is approximately 16 months. Construction-related sources of TAC emissions associated with the CFTP include off-road heavy duty construction equipment,<sup>14</sup> on-road equipment and vehicles, generators, and construction material (e.g., ROGs from striping and asphalt paving). Various models were used to estimate construction-related emissions, as described in Section 4.2 and Appendix C of the CFTP Draft EIR.

Air dispersion modeling using AERMOD Version 07026 was used to estimate ambient TAC concentrations. Annual TAC concentrations were calculated from annual (2009) construction emissions for 120 grid nodes located on the airport property line surrounding the construction site. Hourly concentrations were calculated using the peak daily emission rates. The same meteorological data set used in the LAX Master Plan Final EIR and SAIP Final EIR was used in the CFTP dispersion modeling. These modeled concentrations were then used to estimate incremental cancer risk as well as chronic and acute non-cancer hazards. Incremental risks serve as the basis of significance determinations.

### 2.3 Toxicity Assessment

Risks from exposure to TACs were calculated by combining estimates of potential exposure with toxicity criteria specific to each chemical. A toxicity assessment for TACs of concern was conducted for the LAX Master Plan Final EIR, as described in Technical Report 14a of that EIR. The conclusions of that assessment have not changed materially. As both the CalEPA's OEHHA and USEPA are continually updating toxicity values as new studies are completed, all toxicity information provided in Technical Report 14a was reviewed and updated as appropriate. Acute RELs developed by the State of California were used in the characterization of potential acute hazards associated with the CFTP.

### 2.4 Risk Characterization

Cancer risks were estimated by multiplying exposure estimates for carcinogenic chemicals by corresponding cancer slope factors. The result is a risk estimate expressed as the odds of developing cancer. Commonly, risks (or odds) of developing cancer of one to ten in one million ( $1 \times 10^{-6}$  to  $10 \times 10^{-6}$ ) or less are considered de minimis.<sup>15</sup> Higher risks may be deemed significant in some instances.

Non-cancer risk estimates were calculated by dividing exposure estimates by reference doses. Reference doses are estimates of highest exposure levels that would not cause adverse health effects even if exposures continue over a lifetime. The ratio of exposure to reference dose is termed the hazard quotient (HQ). A HQ greater than one indicates an exposure greater than that considered safe. Risks or odds of adverse effects cannot be estimated using reference doses. However, because reference doses are developed in a conservative fashion, HQs only slightly higher than one are generally accepted as being associated with low risks (or even no risk) of adverse effects, and that potential for adverse effects increases as the HQ gets larger.

Acute non-cancer risk estimates were calculated by dividing exposure estimates by a REL. The acute REL is a concentration in air below which adverse effects are for people, including sensitive subgroups, exposed for one hour on an intermittent basis. USEPA defines intermittent exposure as that lasting less than 24 hours and occurring no more than monthly.<sup>16</sup> RELs are based on the most sensitive, relevant, adverse health effect reported in the medical and toxicological literature. Since margins of safety are incorporated to address data gaps and uncertainties, exceeding the REL does not automatically indicate an adverse health impact.

Impacts of exposure to multiple chemicals were accounted for by adding cancer risk estimates for exposure to all carcinogenic chemicals, and by adding estimated HQs for non-carcinogenic chemicals

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<sup>14</sup> Examples of off-road heavy duty construction equipment include scalpers, graders, backhoes, and rock crushers.

<sup>15</sup> Clay, Don R., U.S. Environmental Protection Agency, Memorandum to OSWER, Subject: Role of the Baseline Risk Assessment in Superfund Remedy Selection Decisions, April 22, 1991.

<sup>16</sup> U.S. Environmental Protection Agency, Draft Methods for Exposure-Response Analysis and Health Assessment for Acute Inhalation Exposure to Chemicals, 1994.

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that affect the same target organ or tissue in the body. Addition of HQs for TACs that produce effects in similar organs and tissues results in a Hazard Index (HI) that reflects possible total hazards. Several TACs have effects on the respiratory system including acetaldehyde, acrolein, formaldehyde, xylenes, and diesel particulates. Non-cancer hazards calculated for the CFTP were calculated for the respiratory system which accounted for essentially all potential non-cancer hazards.

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## 3. TAC EMISSIONS AND DISPERSION

### 3.1 TAC Emissions

Both organic and particulate-bound TACs are analyzed in this HHRA. TACs are constituents of either ROG or PM10. Emissions of organic TACs were developed from the ROG emission inventories for the same sources analyzed in Section 4.2 of the CFTP Draft EIR, and emissions of particulate-bound TACs were developed from the PM10 emission inventories. Speciation profiles<sup>17</sup> for ROG and PM10 emissions from individual source types, primarily developed by CARB, were used to calculate TAC emissions.<sup>18,19</sup> The TAC emissions only from construction activities were included.

#### 3.1.1 Construction Sources

On-airport construction sources of TAC emissions include: (1) off-road heavy duty construction equipment; (2) on-road equipment and vehicles; (3) generators; and (4) and construction material (e.g., ROGs from striping and asphalt paving). The construction schedule combined with the ROG and PM10 pollutant emissions inventory prepared for the CFTP were the basis for development of the TAC emissions inventory. The methodology for estimating CFTP construction ROG and PM10 emissions are presented in Section 4.2, *Air Quality*, and calculation results are provided in Appendix C of the CFTP Draft EIR. A summary of construction ROG and PM10 emissions are included in Attachment A of this appendix. Short-term exposure was evaluated using the daily emissions during the peak month of CFTP construction. Long-term exposure was evaluated using average annual daily emissions in the peak year of construction to quantify chronic health impacts.

Note that construction-related commitments and mitigation measures for the LAX Master Plan applicable to the CFTP were considered in the emissions inventory as part of the project. Specific construction-related mitigation measures associated with LAX Master Plan Mitigation Measure MM-AQ-2 that were assumed to be in place during CFTP construction are shown in Table 4.2-7 of the CFTP Draft EIR. In addition, LAWA will comply with SCAQMD Rule 403 for fugitive dust control, and with the Community Benefits Agreement (CBA), Section X.F.1 for control of diesel particulate matter from construction equipment. The emission reductions associated with these controls are shown in Table 4.2-6 of the CFTP Draft EIR.

For the analysis included in Section 4.2, *Air Quality*, emissions from construction equipment engines and dust from construction activities, without application of CBA Section X.F.1 or Rule 403 requirements are presented as "uncontrolled" emissions. These uncontrolled emissions form the basis of the "unmitigated" risk characterization developed in this appendix. The controlled emissions in Section 4.2, *Air Quality*, estimated from installation of diesel particulate filters and application of dust control methods, form the basis of the "mitigated" risks described herein.

#### 3.1.2 Operational Sources

Changes in airport operations are not expected for the CFTP; therefore, emissions were not estimated for operational sources. Consequently, evaluation of potential impacts to human health associated with operational sources is not included for the CFTP. On-airport operational sources of TAC emissions would include: (1) aircraft; (2) ground support equipment (GSE); (3) ground access vehicles (GAV) on airport

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<sup>17</sup> Speciation profiles provide estimates of the chemical composition of emissions, and are used in the emission inventory and air quality models. CARB maintains and updates estimates of the chemical composition and size fractions of PM10 and the chemical composition and reactive fractions of ROG, for a variety of emission source categories. Speciation profiles are used to provide estimates of TAC emissions.

<sup>18</sup> California Air Resources Board, California Emission Inventory and Reporting System - Particulate Matter Speciation Profiles, Available: [http://www.arb.ca.gov/ei/speciate/PMPROF\\_09\\_27\\_02.xls](http://www.arb.ca.gov/ei/speciate/PMPROF_09_27_02.xls), 2002.

<sup>19</sup> California Air Resources Board, Draft California Emission Inventory Development and Reporting System- Organic Gas Speciation Profiles, 2003, Available: [http://www.arb.ca.gov/ei/speciate/ORGPROF\\_03\\_19\\_03.xls](http://www.arb.ca.gov/ei/speciate/ORGPROF_03_19_03.xls).

## **D. Human Health Risk Assessment**

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roadways and in airport parking lots; and (4) stationary sources (e.g., power plants, fuel tanks, maintenance, and surface coating facilities and other miscellaneous sources).

### **3.2 Exposure Concentrations (Dispersion)**

Dispersion modeling analysis of TACs was conducted for construction sources. The USEPA AERMOD<sup>20</sup> dispersion model was used to conduct this analysis. For the TAC analysis, ROG and PM concentrations were modeled using AERMOD, then the resulting concentrations were speciated into individual organic or particulate TAC concentrations. Receptors<sup>21</sup> included in the modeling analysis were located at the airport fence-line. Since the fence-line and the on-airport locations selected are the closest locations with unrestricted access to airport emission sources, the AERMOD-modeled concentrations at these locations would be higher than concentrations modeled further out from the airport. The highest fence-line 1-hour and annual average concentrations for each TAC are assumed to represent the exposure concentration for all receptor types. This approach is taken as a screening step to determine if more detailed analysis of risks and hazards is required at off-airport residential and non-residential locations. If fence-line concentrations are below levels that suggest a significant impact, then impacts at all off-airport locations will also be below these levels. In such case, no further analysis would be required to support a finding of no significant impact for the CFTP EIR. AERMOD input files are presented in Attachment B.

The construction-only analysis was used to determine the incremental contribution that CFTP construction would make to airport-related risks and hazards. The following subsections provide a brief summary of the modeling approach used for construction sources.

#### **3.2.1 Construction Activity Dispersion Analysis**

In addition to general modeling guidance for use of AERMOD, the analysis also incorporated modeling methodology adopted in the document titled "SCAQMD Localized Significance Threshold Methodology (SCAQMD LST Guidance)."<sup>22</sup>

The AERMOD model was used to calculate the annual average (chronic and carcinogenic exposure) and peak hour (acute exposure) chemical concentrations associated with each emitting source. The model requires various input parameters including chemical emission data and local meteorology. Inputs for each emitting source were based on characterizations of each pollutant. Exhaust emissions from construction equipment were treated as a set of elevated polygon area sources. The dimensions of the area sources reflect the active construction zone. The release height was assumed to be 4.5 meters which represents the mid-range of the expected plume rise from frequently used construction equipment during daytime atmospheric conditions. Construction materials (e.g., asphalt paving operations and coating and architectural coating) were treated as a set of ground-release volume sources with the number and dimensions of the volume sources reflecting the active construction zone.

#### **3.2.2 Operational Source Dispersion Analysis**

As discussed previously, operational sources were not modeled because no operation changes would take place during construction of the CFTP.

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<sup>20</sup> U.S. Environmental Protection Agency, User's Guide for the AMS/EPA Regulatory Model – AERMOD, EPA-454/B-03-001, September 2004.

<sup>21</sup> Receptors represent locations in the vicinity of the airport where people could potentially be exposed to the TACs by breathing the air.

<sup>22</sup> South Coast Air Quality Management District, SCAQMD Localized Significance Threshold Methodology SCAQMD LST Guidance, June 2003.



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## 4. HUMAN HEALTH RISK ASSESSMENT

This HHRA addresses potential impacts to human health associated with releases of TACs that are anticipated to occur during the construction period of the CFTP. Cancer and chronic non-cancer risk estimates for construction impacts of the CFTP are based on estimated CFTP emissions and air dispersion modeling as discussed above and are discussed in the following sections. Acute non-cancer hazard estimates for construction sources were also addressed using emissions estimates and dispersion modeling. Risk estimates for construction sources, presented in Attachments C and D to this appendix, indicate that construction impacts to health risk are below the thresholds of significance. Since assessment of health risks was based on locations where concentrations of TACs were predicted to be highest, either on-airport for construction workers, or along the fence-line (off-airport), for other receptors, this finding applies to all areas on and around LAX.

Cumulative risks were evaluated previously in the LAX Master Plan Final EIR; methods used to evaluate these risks have not changed. Methods used to evaluate cumulative non-cancer hazards are discussed in the LAX Master Plan Final EIR, Technical Report 9a.

### 4.1 Exposure Assessment

For the CFTP, four specific receptors were selected for quantitative evaluation: on-airport worker, off-airport adult resident, off-airport child resident and off-airport school child. Each receptor represents a unique population and set of exposure conditions. As a whole, they cover a range of exposure scenarios for the potentially most affected human receptors within the study area. Fire fighters at the Aircraft Rescue and Fire Fighting (ARFF) facility were also considered, but were not selected as potential receptors. Fire fighters were evaluated qualitatively in the Uncertainties subsection 5.3.3 using the modeling results for nearby locations. Receptors for which exposure scenarios are prepared were selected to provide the most conservative, and therefore, protective, values for health impact assessment. By providing estimates for the most exposed individuals, the general population would also be protected.

Exposure scenarios include receptors and the various pathways by which they might be exposed to TACs of concern. A complete exposure pathway consists of four parts:

- ◆ A TAC source (e.g., construction equipment fuel combustion)
- ◆ A release mechanism (e.g., construction equipment engine exhaust)
- ◆ A means of transport from point of release to point of exposure (e.g., local winds)
- ◆ A route of exposure (e.g., inhalation)

If any of these elements of an exposure pathway is absent, no exposure can take place and the pathway is considered incomplete and is not evaluated. Numerous potentially complete exposure pathways exist for receptors at or near LAX. For this HHRA, the inhalation pathway is considered the most important complete exposure pathway and is quantitatively evaluated for all receptors. Other exposure pathways (e.g., incidental ingestion of windblown TACs deposited in off-airport soil) which may potentially be complete are discussed in the Uncertainties Section.

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### **4.1.1 Calculation of Chronic Daily Intakes (CDI)**

To estimate potential cancer risks and the potential for adverse non-cancer health hazards, TAC intakes for each pathway for each receptor must be estimated. For cancer and chronic non-cancer risk assessment, average long-term daily intakes are used to estimate risk and hazards. Chronic daily intake (CDI) for TACs is estimated as follows:<sup>23</sup>

$$\text{CDI} = (\text{C} \times \text{IR} \times \text{EF} \times \text{ED}) / (\text{BW} \times \text{AT})$$

Where: CDI	=	chronic daily intake (mg/kg body weight/day)
C	=	chemical concentration in exposure medium (mg/kg)
IR	=	inhalation rate with exposure medium (mg/day)
EF	=	exposure frequency and duration (days/year)
ED	=	exposure duration (years)
BW	=	body weight (kg)
AT	=	average time; e.g., the period over which exposure is averaged (days)

Averaging time for estimation of cancer risk is 70 years or 25,550 days. Cancer risk is evaluated as the lifetime average daily dose (LADD) according to CalEPA and USEPA guidance. Averaging time for estimation of non-cancer hazards is the duration of exposure, expressed in days. Non-cancer hazards are evaluated as average daily dose (ADD) over the period of exposure, again, following CalEPA and USEPA guidance.

Exposure parameters used to calculate LADD and ADD for each of these pathways are summarized in **Table 2**, Parameters Used to Estimate Exposures to TACs of Concern. Exposure parameters are based on the CalEPA Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities,<sup>24</sup> USEPA Exposure Factors Handbook,<sup>25</sup> and CalEPA Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments.<sup>26</sup> These exposure parameters were selected to maintain consistency with the health risk analyses conducted for the LAX Master Plan Final EIR<sup>27</sup> and the SAIP EIR.<sup>28</sup> However, the CalEPA Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments recommends a range of exposure durations and inhalation rates be evaluated. Additional analyses presented in Section 5, *Uncertainties*, verify that the sensitivity of the analyses to these variations in exposure durations and inhalation rates does not change the conclusions of potential impacts of the project.

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<sup>23</sup> U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Risk Assessment Guidance for Superfund Vol. I, Human Health Evaluation Manual (Part A) Interim Final, EPA/540/1-89/002, December 1989.

<sup>24</sup> California Environmental Protection Agency, Supplemental Guidance for Human Health Multimedia Risk Assessments of Hazardous Waste Sites and Permitted Facilities, 1993.

<sup>25</sup> U.S. Environmental Protection Agency, Exposure Factors Handbook, USEPA/600/P-95/002Fa, 1997.

<sup>26</sup> California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, August 2003.

<sup>27</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

<sup>28</sup> City of Los Angeles, Los Angeles World Airports, Draft Environmental Impact Report for South Airfield Improvement Project Los Angeles International Airport, August 2005.

**Table 2**  
**Parameters Used To Estimate Exposures to TACs of Concern**

Exposure Pathway Inhalation of Particulates and Gases	Off-Airport Receptors			
	Off-Site Resident		Off-Site School Child	Off-Site Worker
	Adult	Child		
Daily Breathing Rate (m <sup>3</sup> /day)	20 <sup>2</sup>	15 <sup>2</sup>	6 <sup>2</sup>	10 <sup>2</sup>
Exposure Frequency (days/yr)	350 <sup>1,3</sup>	350 <sup>1,3</sup>	200 <sup>4</sup>	245 <sup>1</sup>
Exposure Duration (years)	70 <sup>1,5</sup>	6 <sup>2</sup>	6 <sup>4</sup>	40 <sup>1</sup>
Body Weight (kg)	70 <sup>1,6</sup>	15 <sup>2</sup>	40	70 <sup>1,6</sup>
Averaging Time - Non-cancer (days)	25,550 <sup>1,6</sup>	2,190 <sup>6</sup>	2,190 <sup>6</sup>	14,600 <sup>6</sup>
Averaging Time - Cancer (days)	25,550 <sup>1,6</sup>	25,550 <sup>1,6</sup>	25,550 <sup>1,6</sup>	25,550 <sup>1,6</sup>

- <sup>1</sup> Cal/EPA, Air Toxic Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, August 2003.  
<sup>2</sup> USEPA, Exposure Factors Handbook, USEPA/600/P-95/002Fa, 1997.  
<sup>3</sup> USEPA, Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors, Office of Solid Waste and Emergency Response, Washington D.C., August, 1991.  
<sup>4</sup> Site-specific. See Attachment C.  
<sup>5</sup> 70 year exposure duration will be used as basis for determining significance.  
<sup>6</sup> USEPA, Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual, Part A, USEPA/540/1-89/002, Office of Emergency and Remedial Response, Washington D.C., 1989.

Source: CDM, 2008.

## 4.2 Incremental Risks and Non-Cancer Hazards Associated with CFTP Construction

Risk estimates for construction sources are presented below for on-airport workers (occupational exposure), and off-airport residents and school children. Acute and chronic non-cancer risks are discussed.

### 4.2.1 Comparison of On-Airport Air Concentrations with OSHA Limits for Construction Workers

Effects on construction workers were evaluated by comparing estimated maximum 1-hour air concentrations of TACs for the CFTP to the California Occupational Safety and Health Administration (CalOSHA) 8-hour Time-Weighted Average Permissible Exposure Levels (PEL-TWAs).<sup>29</sup> For pollutants with no PELs, Threshold Limit Values (TLVs) established by the American Conference of Governmental Industrial Hygienists (ACGIH)<sup>30</sup> were used. Estimated on-airport air concentrations and PEL-TWAs for TACs of concern for LAX are presented in **Table 3**.

<sup>29</sup> California Occupational Safety and Health Administration, Permissible Exposure Limits for Chemical Contaminants, Table AC-1, Available: <http://www.dire.ca.gov/title8/5155.html>.

<sup>30</sup> American Conference of Governmental Industrial Hygienists, Documentation of the Threshold Limit Values and Biological Exposure Indices, 8th ed., 1998.

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Table 3

**Comparison of CalOSHA Permissible Exposures Limits to  
Maximum Estimated 8-Hour On-Airport Air Concentrations**

<b>Toxic Air Contaminant<sup>1</sup></b>	<b>Unmitigated CFTP (mg/m<sup>3</sup>)<sup>2</sup></b>	<b>Mitigated CFTP (mg/m<sup>3</sup>)<sup>2</sup></b>	<b>CAL OSHA PEL-TWA (mg/m<sup>3</sup>)<sup>3</sup></b>
Acetaldehyde	0.0040370	0.0040370	45
Acrolein	0.0000012	0.0000012	0.25
Benzene	0.0011215	0.0011215	0.32 <sup>4</sup>
Butadiene, 1-3-	0.0001092	0.0001092	2.2
Ethylbenzene	0.0009221	0.0009221	435
Ethylene Glycol	0.0000962	0.0000962	100
Formaldehyde	0.0080893	0.0080893	0.37 <sup>4</sup>
Hexane, n-	0.0023511	0.0023511	180
Isopropyl Alcohol	0.0002331	0.0002331	980
Methyl Alcohol	0.0001511	0.0001511	260
Methyl Ethyl Ketone	0.0008993	0.0008993	590
Methyl t-butyl ether	0.0000173	0.0000173	144
Naphthalene	0.0009925	0.0009925	50
Propylene	0.0014530	0.0014530	NA <sup>5</sup>
Styrene	0.0000330	0.0000330	215
Toluene	0.0078042	0.0078042	188
Xylene (total)	0.0007464	0.0007464	435
Antimony	0.0000043	0.0000017	0.5
Arsenic	0.0000045	0.0000015	0.01
Cadmium	0.0000083	0.0000030	0.005
Chromium VI	0.0000070	0.0000023	0.005
Copper	0.0000263	0.0000089	1
Lead	0.0001296	0.0000428	0.05
Manganese	0.0002120	0.0000699	0.2
Mercury	0.0000044	0.0000016	0.025
Nickel	0.0000148	0.0000051	1
Selenium	0.0000023	0.0000010	0.2
Vanadium	0.0000613	0.0000203	0.05
Zinc	0.0001324	0.0000464	NA
Ammonium Ion	0.0001086	0.0000578	18
Bromine	0.0000070	0.0000025	0.7
Chlorine	0.0008130	0.0002863	1.5
Diesel PM	0.0236474	0.0143397	NA
Silicon	0.0448265	0.0147072	5
Sulfates	0.0017655	0.0008155	NA

<sup>1</sup> All TACs for which PEL-TWAs are available are listed. PEL-TWAs are not available for diesel exhaust, propylene, zinc, and sulfates.

<sup>2</sup> Maximum 1-hour concentrations at on-airport location. (W3 for ROGs and inorganics, except for sulfates and selenium, which is W1)

<sup>3</sup> California Occupational Safety and Health Administration. Permissible Exposure Limits for Chemical Contaminants, Table AC-1, 2008, [http://www.dir.ca.gov/title8/5155table\\_ac1.html](http://www.dir.ca.gov/title8/5155table_ac1.html).

<sup>4</sup> CalOSHA does not have a value; value is from American Conference of Governmental Industrial Hygienists (ACGIH), Documentation of the Threshold Limit Values and Biological Exposure Indices, 8th ed., Cincinnati, Ohio, 1998.

<sup>5</sup> NA = Not Available

Source: CDM, 2008.

Estimated maximum 1-hour air concentrations at on-airport locations under the CFTP are well below PELs or TLVs for all TACs. This result suggests that air concentrations from airport emissions with or without implementation of the CFTP would not exceed those considered "acceptable" by CalOSHA standards.

#### 4.2.2 Incremental Cancer Risks and Chronic Non-Cancer Hazards for Maximally Exposed Individuals (MEI) -- Residents and School Children

For the CFTP, approximately 120 grid points were analyzed along the airport fence-line. These concentrations along the fence-line were assumed to represent the exposure concentrations at commercial, residential, and school locations in the community. In essence, the calculations assumed that people live, work, and go to school at the LAX fence-line. Although this assumption is incorrect, it is obviously conservative. No exposures or risks within the community would be higher than those calculated in this HHRA.

Air concentrations for TACs for construction sources only were developed using emissions estimates and dispersion modeling as described in Sections 3.1 and 3.2. Using these construction emission estimates, exposure parameters for potential receptors and current toxicity values, cancer risks and chronic non-cancer health hazards were calculated for adult residents (adult+child), resident children ages 0 to 6 years, and for elementary-aged school children at fence-line locations where air concentrations for TACs were predicted. Incremental cancer risks and chronic non-cancer human health hazards for MEI at the fence-line location with maximum cancer risks are summarized in **Table 4**; calculations are presented in Attachment C.

**Table 4**

**Incremental Cancer Risks and Chronic Non-Cancer Human Health Hazards for Maximally Exposed Individuals for CFTP Construction**

Receptor Type	Incremental Cancer Risks <sup>1</sup> (per million people)	
	Unmitigated	Mitigated
Child Resident	1	0.7
School Child	0.1	0.06
Adult + Child Resident <sup>2</sup>	5	3
Adult Resident	4	2

Receptor Type	Incremental Non-Cancer Chronic Hazards <sup>3</sup>	
	Unmitigated	Mitigated
Child Resident	0.02	0.01
School Child	0.002	0.001
Adult Resident	0.006	0.004

<sup>1</sup> Values provided are changes in the number of cancer cases per million people exposed as compared to baseline conditions. All estimates are rounded to one significant figure.

<sup>2</sup> Includes exposure to TACs released from LAX from childhood (ages 0-6) through adulthood (ages 7-70).

<sup>3</sup> Hazard indices are totals for all TACs that may affect the respiratory system. This incremental hazard index is essentially equal to the total for all TACs.

Source: CDM, 2008.

##### 4.2.2.1 Residents (Adults and Young Children)

Total estimated incremental cancer risk for adult residents and child residents for the unmitigated CFTP were 4 in one million and one in one million, respectively. Estimated cancer risks are higher for adults than for children, because exposure duration for adults is longer. Total estimated incremental cancer risks for a young child through adulthood (adult + child) at the fence-line location with maximum cancer

## ***D. Human Health Risk Assessment***

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risks was 5 in one million. Cancer risks for adults and children under the CFTP due to construction impacts were almost entirely due to predicted exposure to diesel particulate matter contributing -- about 92 percent of the risk estimate. Importantly, these updated estimates show that project-related incremental cancer risks for adults and for young children are predicted to be below the threshold of significance of 10 in one million for the CFTP. These estimates also greatly overestimate the exposure because they assume that exposure to TACs released from the CFTP would occur during the entire lifetime exposure duration (childhood, ages 0 to 6 years and adulthood, ages 7 to 70 years) of the receptor. However, construction of the CFTP would only be approximately 16 months. Cancer risk estimates due to exposure during the approximately 16-month CFTP construction period are provided in Section 5 Uncertainties.

Project-related incremental chronic non-cancer hazard indices for construction impacts associated with the unmitigated CFTP are also provided in **Table 4**. Hazard indices for adult residents and child residents living at the fence-line location with maximum cancer risks are estimated to be 0.006 and 0.02, respectively. All hazard estimates for the CFTP are below the significance threshold of 1.

Hazard index estimates are higher for children than adults, because they are normalized to body weight, which is lower for children than for adults. Diesel particulate matter contributes 43 percent or more to the total hazard index for all receptor types. The source of diesel particulate matter is mainly construction equipment. The remaining portion of the total hazard index is attributable to formaldehyde (24 percent), manganese (4 percent), and chlorine (17 percent). Project-related incremental chronic non-cancer health hazards for adults and for young children are predicted to be below the threshold of significance.

Risks and hazards after mitigation are lower than under the unmitigated scenario. Mitigation measures only address PM10 emissions; therefore, under mitigated conditions, concentrations from ROG emissions remain the same as under unmitigated conditions. However, because diesel PM dominates potential risks and hazards, reducing diesel particulate emissions has a notable impact on estimated health impacts. Total estimated incremental cancer risk for adult residents and child residents for the mitigated CFTP were 2 in one million and 0.7 in one million, respectively. Total estimated incremental cancer risks for a young child through adulthood (adult + child) at the fence-line location with maximum cancer risks was 3 in one million. Cancer risks under CFTP after mitigation due to construction impacts are still almost entirely due to predicted exposure to diesel particulate matter contributing -- about 94 percent of the risk estimate.

Hazard indices for adult residents and child residents living at the fence-line location with maximum cancer risks after mitigation are estimated to be 0.004 and 0.01, respectively. After mitigation, the contribution of the constituents changes slightly: diesel particulate matter contributes 41 percent, formaldehyde contributes 38 percent, chlorine contributes 7 percent, and acetaldehyde contributes 6 percent.

### **4.2.2.2 School Children**

Incremental cancer risks for children attending schools within the study area in the unmitigated scenario are estimated to be 1 in ten million. Risks below 1 in one million are typically considered negligible by regulatory agencies in California. For the school child, diesel particulate matter contributed to the majority of the cancer risk. Project-related incremental cancer risks for school children are predicted to be below the threshold of significance for the CFTP.

Incremental HIs for chemicals affecting the same target (i.e., the respiratory system) for MEI school children are 0.002 for construction impacts under the unmitigated CFTP. Estimated HIs are 43 percent due to exposure to diesel particulates from construction equipment operations with the remaining portion of the total hazard index attributable to formaldehyde (24 percent), manganese (4 percent), and chlorine (17 percent). Project-related incremental chronic non-cancer health hazards for school children are predicted to be below the threshold of significance.

Risks and hazards after mitigation are lower than under the unmitigated scenario. Incremental cancer risks for children attending schools within the study area under the mitigated scenario are estimated to be 6 in hundred million. Incremental HIs for MEI school children are 0.001 after mitigation.

### 4.2.3 Acute Incremental Non-Cancer Hazards

As with chronic cancer risks and non-cancer hazards, acute hazards were analyzed using grid points along the airport fence-line. Land use distinctions and different exposure scenarios are irrelevant for assessment of acute risks. For example, someone visiting a commercial establishment would potentially be subject to the same acute risks as someone working at the establishment. However, likely receptors (residential, school, and occupational) for each grid point were designated through inspection of aerial photos, since these designations may provide some reflection of populations more likely to be exposed in certain locations. Residential land use was, for example, assumed for grid points along the fence-line that are adjacent to residential areas. Acute risks at these locations may reflect the relative magnitude of acute risks in residential areas nearest to emission sources. Likewise, off-airport workers were assumed at receptor locations along the fence-line that are adjacent to commercial land uses. Fence-line concentrations of TACs are likely to represent the highest concentrations and potential impacts for residents and workers. Thus, risks and hazards estimated for the LAX fence-line are likely to overestimate risks and hazards that may occur in actual residential or commercial areas. Two schools, Paseo del Rey Elementary and Center Street Elementary, were identified as schools in the study area closest to the fence-line; potential acute hazards for school children were estimated at the grid points (thirteen grid points) closest to these locations.

Acrolein is a TAC of concern and is responsible for essentially all predicted chronic non-cancer health hazards associated with LAX operations and is primarily associated with aircraft emissions. Acrolein is also the only TAC of concern in emissions from LAX that might be present at concentrations approaching a threshold for acute effects. (For a detailed discussion of uncertainties regarding the presence of acrolein in aircraft emissions, see Section 7.3 of Technical Report S-9a of the LAX Master Plan Final EIR.) Since aircraft emissions are not a component of emission estimates associated with the CFTP, only TACs identified for construction sources with acute RELs are evaluated for potential acute health impacts; however, potential acute health impacts associated with TACs without RELs are discussed in the Uncertainties Section.

Short-term concentrations of TACs for CFTP construction sources were estimated using the air dispersion model (AERMOD) with the model option for 1-hour maximum concentrations selected. TAC concentrations from AERMOD represent the increment above baseline that might be associated with the CFTP. Acute hazards were estimated at each grid point by comparison of the modeled TAC concentration at each grid point with the acute REL. All acute hazard estimates are specific for airport emissions and are independent of the county-wide estimates developed by USEPA.

Incremental hazards due to acute exposure to TACs are all significantly below 1 for selected grid nodes within the study area under both mitigated and unmitigated conditions. The maximum incremental acute hazard associated with construction activities for the CFTP is shown in **Table 5** and is based on potential exposure to formaldehyde for all receptors. For formaldehyde, if acute effects occurred, they would typically include irritation to the eye and respiratory system and potentially adverse effects to the immune system.<sup>31</sup> Also shown in **Table 5** are incremental acute hazards for potential exposure to acrolein associated with construction activities for the CFTP. Acute exposures to acrolein may result in mild irritation of eyes and mucous membranes.<sup>32</sup> Because no additional mitigation was assumed for ROG (VOC) emissions, mitigated and unmitigated concentrations of formaldehyde and acrolein are the same.

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<sup>31</sup> California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, OEHHA Toxicity Criteria Database. Available: <http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>, accessed May 1, 2008.

<sup>32</sup> California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, OEHHA Toxicity Criteria Database. Available: <http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>, accessed May 1, 2008.

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Incremental acute hazards for other TACs are orders of magnitude below 1 and below the acute hazards for formaldehyde and acrolein; these results are provided in Attachment D of this appendix.

	<b>Summary of Acute Hazard Indices</b>	
	<b>CFTP Increment Formaldehyde</b>	<b>CFTP Increment Acrolein</b>
<b>Residential</b>		
Maximum HI <sup>1</sup>	0.02	0.001
Minimum HI	0.003	0.0002
Average HI	0.008	0.0006
<b>Off-Airport Worker</b>		
Maximum HI	0.01	0.0008
Minimum HI	0.001	0.00008
Average HI	0.004	0.0003
<b>School Child</b>		
Maximum HI	0.01	0.0007
Minimum HI	0.006	0.0004
Average HI	0.008	0.0006
<b>Overall Off-Airport Maximum HI</b>	0.02	0.001
<b>On-Airport Construction Worker</b>		
Maximum HI	0.09	0.006
Minimum HI	0.03	0.002
Average HI	0.07	0.005

<sup>1</sup> HI = Hazard Index

Source: CDM, 2008.

Acute hazard estimates are applicable to all receptors. Toxicity criteria for acute health hazards do not distinguish between adults and children and are the same for all land uses. Acute RELs are established at levels that are considered protective of sensitive populations. A hazard index equal to or greater than 1, the threshold of significance for acute effects, indicates some potential for acute adverse health effects. A hazard index less than 1 suggests that acute adverse health effects are not expected. Project-related incremental acute cancer health hazards for all receptor types do not exceed the threshold of significance. Calculations for acute health hazards are provided in Attachment D.

### 4.3 Cumulative Risks and Non-Cancer Hazards Associated with the CFTP

Unlike air quality, for which standards have been established that determine acceptable levels of pollutant concentrations, no standards exist that establish acceptable levels of human health risks or that identify a threshold of significance for cumulative health risk impacts. Therefore, the discussion below addresses cumulative impacts, and the project-related contribution to those impacts, but does not make a determination regarding the significance of cumulative impacts.



### **4.3.1 Cumulative Risks and Chronic Non-Cancer Hazards**

The SCAQMD conducted an urban air toxics monitoring and evaluation study for the South Coast Air Basin from April 2004 through March 2006 called MATES-III. MATES-III is a follow up to MATES-II and provides an updated general evaluation of cancer risks associated with TACs from all sources within the South Coast Air Basin. According to the study, cancer risks in the Basin range from 870 in a million to 1,400 in a million, with an average of 1,200 in a million. These cancer risk estimates are high and indicate that current impacts associated with sources of TACs from past and present projects in the region are significant. The MATES-III study is an appropriate estimate of present cumulative impacts of TAC emissions in the South Coast Air Basin. It does not, however, have sufficient resolution to determine the fractional contribution of current LAX operations to TACs in the airshed. Only possible incremental contributions to cumulative impacts can be assessed.

The LAX Master Plan Final EIR used the results of the MATES-II study to address cumulative cancer risks associated with the build alternatives and the No Action/No Project Alternative. Overall, the analyses indicated that:

- ◆ LAX operations would have a small impact on cumulative human cancer risks associated with living in the South Coast Air Basin.
- ◆ Mitigation would reduce cancer risks below those predicted for pre-mitigation conditions. That is, mitigation would result in a decrease in cumulative risks for many people living closest to the airport.

Although project-specific construction activities of the CFTP were not analyzed in the LAX Master Plan Final EIR, total estimated cancer risks for the CFTP are less than those estimated for the No Action/No Project Alternative in 2005 in the LAX Master Plan Final EIR. Therefore, cumulative impacts for the CFTP would be less than those identified for the No Action/No Project Alternative in 2005 in the LAX Master Plan Final EIR. This conclusion is based on the assumption that impacts associated with construction sources for the CFTP would be less than construction impacts estimated for the SAIP. The HHRA for the SAIP concluded that the incremental contribution to cancer risk for both operational and construction sources would not be measurable against urban background conditions in the South Coast Air Basin. Based on this assumption, the CFTP can be expected to result in an extremely small increase in cumulative human cancer risks and the increase would probably not be measurable against urban background conditions in the South Coast Air Basin.

With regard to probable future projects, continued growth and development in the region, as well as other construction projects at LAX, would result in additional sources of TACs. Although future sources and releases of TACs are highly speculative, estimated emission rates of nearby LAX projects that may be constructed concurrently with the CFTP were assessed to see how they compare to estimated mitigated CFTP emissions during construction. LAX projects that were included in this evaluation are: TBIT Reconfiguration Project (Taxiway S and ARFF demolition), In-Line Baggage Screening System, TBIT Interior Improvements Program, Airfield Intersection Improvements (AIIP) -- Phase 2, North Airfield Waterline Repair, Airfield Operating Area (AOA) Perimeter Fence - Phases III and IV, Korean Air Cargo Terminal Improvement Project, Airport Operations Center (AOC)/Emergency Operation Center(EOC), and Westchester Rainwater Improvement Project. Estimated ROG and PM10 emissions for 2009 and 2010 from these projects are summarized in **Table 6**.

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Table 6

**Comparison of Mitigated CFTP Project Emissions during Construction in 2009 and 2010 with Emissions of Other LAX Projects Constructed Concurrently**

	Emissions <sup>1</sup> (tons per year)	
	2009	2010
<b>PM10</b>		
Mitigated CFTP	10.69	4.38
TBIT Reconfiguration	5.75	3.64
In-line Baggage	0.07	0.004
TBIT Interior	0.44	0.20
AIP	1.17	0.10
Waterline Repair	0.03	0
AOA Perimeter Fence	0.01	0
Projects		
Korean Air Cargo	0.16	0
AOC/EOC	0.18	0
Rainwater Improvement	6.54	0
<b>Total PM10</b>	<b>25.04</b>	<b>8.32</b>
<b>CFTP Percentage of Total PM10</b>	<b>43%</b>	<b>53%</b>
<b>ROG</b>		
Mitigated CFTP <sup>2</sup>	16.95	7.32
TBIT Reconfiguration	6.18	6.39
In-line Baggage	0.58	0.03
TBIT Interior	5.76	6.19
AIP	1.73	0.14
Waterline Repair	0.03	0
AOA Perimeter Fence	0.1	0
Korean Air Cargo	0.57	0
AOC/EOC	0.30	0
Rainwater Improvement	0.81	0
<b>Total ROG</b>	<b>33.01</b>	<b>20.07</b>
<b>CFTP Percentage of Total ROG</b>	<b>51%</b>	<b>36%</b>

<sup>1</sup> Emissions include both on- and off-site emissions.

<sup>2</sup> CFTP mitigation measures do not affect ROG estimates, thus mitigated and unmitigated ROG are the same.

Source: CDM, 2008.

As shown in **Table 6**, emissions from the mitigated CFTP project comprise approximately 40 to 50 percent of peak-year emissions from the combined LAX projects. Emissions are not directly proportional to risks and hazards because locations of emissions and toxicity of individual constituents differ. However, given the proximity of projects and the dominance of PM10 emissions (diesel PM accounts for 92 percent of the total cancer risk and for 41 percent of the total non-cancer hazard), emission estimates will provide a conservative approximation of relative impacts. In fact, since the period of overlapping construction activity would be short (a few months), this approach will substantially overestimate cumulative impacts associated with CFTP construction. When assuming a direct proportional relationship between emissions and risks/hazards, risks and hazards for the combined LAX projects (CFTP and those projects listed above) would roughly double the values estimated for the mitigated CFTP project alone. Thus, risks and hazards associated with CFTP emissions after mitigation combined with the risks and hazards of other concurrent LAX projects would result in a small increase in cumulative human cancer risks and health hazards. This increment would still not be measurable against urban background conditions in the South Coast Air Basin.

Meaningful quantification of future cumulative health risk exposure in the Basin is not possible. Moreover, the threshold of significance used in this analysis is based on the incremental cancer risk increase of individual projects; this threshold is not appropriately applied to conclusions regarding the cumulative cancer risk in the Basin. However, based on the relatively high cancer risk level associated with past and present projects, as represented by the environmental baseline (i.e., an additional 1,200 cancer cases per million), the CFTP would not add incrementally to the already high cumulative impacts in the South Cast Air Basin near LAX.

The above comparisons do not account for possible positive changes in air quality in the South Coast Air Basin in the future. SCAQMD and other agencies are consistently working to reduce air pollution. In particular, reductions in emission of diesel particulates are being considered for the near future. Since diesel particulates are the major contributors to estimated cancer risks, substantial reductions in diesel emissions would result in substantial reductions in cumulative cancer risks. These, and other such regulations intended to reduce TAC emissions within the Basin, would reduce cumulative impacts in the region. While continued, if not increased, regulation by the SCAQMD of point sources as well as more stringent emission controls on mobile sources would reduce TAC emissions, whether such measures would alter incremental contributions of TAC releases to cumulative impacts under the CFTP cannot be ascertained.

### **4.3.2 Cumulative Acute Non-Cancer Hazards**

Predicted concentrations of TACs released from construction activities for the CFTP suggest that acute health hazards would not be expected. The assessment of cumulative acute hazards follows the methods used to evaluate cumulative acute hazards presented in the LAX Master Plan Final EIR (Subsection 4.24.1.7 and Technical Report S-9a, Section 6.3) incorporating updated National-Scale Air Toxics Assessment (NATA)<sup>33</sup> Tables from 1999. When USEPA annual average estimates are converted to possible 1-hour maximum concentrations, acute hazard indices associated with total acrolein concentrations are estimated to range from 2 to 120, with an average of 23, for locations within the study area. Predicted incremental acute hazards associated with acrolein for the CFTP are 0.001 and 0.0008 for fence-line locations adjacent to residential and commercial land uses, respectively. Thus, the CFTP would be expected to contribute significantly less than 1 percent above current levels of acrolein at residential locations and off-airport locations. Acute hazard indices associated with total formaldehyde concentrations are estimated to range from 0.07 to 1.7, with an average of 0.55, for locations within the study area. Predicted incremental acute hazards associated with formaldehyde for the CFTP are 0.02 and 0.01 for fence-line locations adjacent to residential and commercial land uses, respectively. Thus, the CFTP would be expected to contribute less than 3 percent above current levels of formaldehyde at residential locations and at off-airport locations.

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<sup>33</sup> U.S. Environmental Protection Agency, Available: <http://www.epa.gov/ttn/atw/nata1999/tables.html>.

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## 5. UNCERTAINTIES

Uncertainties are present in all facets of human health risk assessment. Potential important uncertainties associated with the HHRA for the LAX Master Plan are discussed in detail in Technical Report 14a and Technical Report S-9a of the LAX Master Plan Final EIR. These same uncertainty considerations apply to the analyses presented in the CFTP Draft EIR. These uncertainties are briefly summarized below.

### 5.1 Uncertainties Associated with Emission Estimates and Dispersion Modeling

Risk estimates were based on chemical concentration estimates obtained through emissions and dispersion modeling. Emissions estimates are sensitive to the values used to represent the numerous emission source variables (e.g., future aircraft operation assumptions) and to the air toxic emission factor values used for each source. Consequently, estimated emissions values are subject to uncertainties. Different assumptions and values of variables would result in different emissions estimates. The HHRA used well-accepted methods and best available emission factor data to develop estimates of emissions, and estimates and assumptions are reasonable and appropriate. Actual emissions are unlikely to be meaningfully greater than those used in the analyses.

### 5.2 Evaluation of Sensitive Receptor Populations

Certain subpopulations may be more sensitive or susceptible to negative health impacts caused by environmental contaminants than the population at large. Risk estimates presented in the HHRA represent a wide range of potential exposures including the highest that can be reasonably expected. Thus, even though risk estimates are not provided for all potentially sensitive receptors in the area, populations not specifically evaluated are still expected to be represented. For example, quantitatively evaluated populations include those with the highest expected exposure durations and exposure frequencies (e.g., residents). Exposures are therefore expected to be less for other populations, even those with higher chemical sensitivities.

### 5.3 Uncertainties Associated with Exposure Parameter Assumptions

#### 5.3.1 Uncertainties in Exposure Duration for Cancer Risks

An exposure duration of 70 years was used to estimate possible cancer risks associated with CFTP construction. A 70-year exposure duration is generally used by the SCAQMD in risk assessments performed for permitting purposes. This exposure duration combined with other exposure parameters used in this HHRA assumes that an individual exists who resides where maximum impacts occur in a location near construction similar to construction anticipated for LAX, and that the individual is sedentary, spending essentially all of his/her time at home, and yet still breathes at a rate consistent with relatively high activity. Further, this exposure duration assumes that construction emissions continue for a lifetime (6 years for a child and 70 years for an adult) instead of approximately 16 months as anticipated. In essence, SCAQMD assumes that person would move to locations near construction and always be exposed to construction emissions at the point of greatest impact for their entire lives. This combination of factors never occurs, and any estimates of cancer risk based on such a combination will greatly overestimate possible cancer risks for everyone in the study area. Estimated cancer risks for a 16-month exposure duration presented in **Table 7** show that cancer risks for a 16-month exposure duration are estimated to be at least an order of magnitude lower than that estimated for lifetime exposure. Usually the cancer risk is smaller for children than for adults due to short childhood exposure duration; however, the exposure duration for all receptors in this analysis is approximately 16 months so cancer risk for the child is greater.

These calculations are provided in Attachment C.

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Table 7

**Incremental Cancer Risks for Maximally Exposed Individuals for the Sixteen-Month CFTP Construction Exposure Duration**

Receptor Type	Incremental Cancer Risks <sup>1</sup> (per million people)	
	Unmitigated	Mitigated
Child Resident	0.3	0.2
School Child	0.02	0.01
Adult Resident	0.08	0.05

<sup>1</sup> Values provided are changes in the number of cancer cases per million people exposed as compared to baseline conditions. All estimates are rounded to one significant figure.

Source: CDM, 2008.

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### 5.3.2 Uncertainties in Exposure Duration for Acute RELs

OEHHA uses an one-hour exposure duration for the determination of acute RELs for formaldehyde and acrolein. In acute toxicology experiments, the study design usually involves exposures of short duration to an otherwise unexposed animal. In the real world, acute exposures occur intermittently rather than as rare events in a lifetime. Thus, the typical ambient exposure scenario is not reflected in the standard acute toxicology experimental designs. In addition, the possibility of cumulative effects from intermittent ambient exposure is not addressed in acute REL development. However, none of the estimated maximum one-hour incremental concentrations for TACs associated with construction of the CFTP approach acute RELs.

### 5.3.3 Uncertainties in Exposure for Fire Fighters

Part of the proposed project includes relocating the Aircraft Rescue and Fire Fighting (ARFF) facility from its current location on the airfield adjacent to Taxiway S to a new location on the airfield adjacent to the proposed Taxiway C13. There are two locations currently being considered for the ARFF: one site is immediately north of World Way West and east of the southeast corner of the LAXFUEL fuel farm and the other site is adjacent to the proposed RON parking area south of World Way West.

The fire department personnel spends, on average, 56 hours per week (a 9-day cycle: 24 hours on, 24 off), at the ARFF facility, compared to the 40 hours per week of the typical industrial/commercial worker that was evaluated in this assessment. However, fire department personnel tend to average fewer years at this job than the exposure duration of 40 years assumed in this assessment for a typical industrial/commercial worker.

For fire department personnel, potential exposure to air pollutants through inhalation comes primarily from aircraft exhaust (i.e., products of complete and incomplete fuel combustion) as the aircraft move about the airfield on nearby taxiways. This potential exposure to emissions from aircraft is not expected to be appreciably different in type or amount at the new ARFF facility from that at the existing ARFF facility. Moreover, there would be no appreciable difference in exposure between the two proposed ARFF relocation sites. Therefore, the project would not result in any new human health impacts to fire department personnel.

A secondary source of potential exposure of fire department personnel at the ARFF facility to air pollutants comes from routine venting (working and breathing losses) from the fuel storage tanks at the LAXFUEL fuel farm. However, due to the very low volatility and composition of Jet A (jet kerosene) fuel stored in the fuel farm tanks, the speciation profile for jet kerosene fuel does not contain any target toxic

air contaminants. Thus, even with a location closer to the fuel farm at the new ARFF facility than at the existing ARFF facility, potential exposure to volatile fuel constituents from the fuel farm is expected to be negligible and no significant incremental human health impacts would occur. Finally, predicted concentrations of TAC in air are orders of magnitude less than occupational standards even for locations where maximum concentrations may occur. Given these results, the small increase in daily exposure for firemen (56 versus 40 hours per week) would not be anticipated to be consequential in determining possible health impacts associated with occupational exposure. Construction activities would not be predicted to have significant impacts on firemen at the current ARFF location during CFTP construction.

### 5.3.4 Uncertainties in Inhalation Rates

Inhalation rate for individuals can vary over a range of values for residents, off-airport workers or other receptor groups. These ranges reflect both differences in age and level of activity. Since residents have the longest exposure frequency and duration, and therefore the greatest incremental cancer risks and chronic non-cancer hazards, they were selected for the sensitivity analysis for inhalation rates. In the Air Toxics Hot Spots Guidance,<sup>34</sup> OEHHA recommends use of a range of inhalation rates for the 9-year, 30-year, 70-year scenarios, which span below and above the rates used in the LAX Master Plan Final EIR,<sup>35</sup> the SAIP Final EIR,<sup>36</sup> and the CFTP evaluation presented in Section 4. For a limited sensitivity analysis, rates from the OEHHA guidance were used as input values to calculations.

In this analysis, incremental cancer risks and chronic non-cancer hazard quotients were calculated for the range of inhalation rates recommended by OEHHA's Air Toxics "Hot Spots" program at the grid point where the highest incremental impacts were identified for the adult resident. For this sensitivity analysis, estimated concentrations for the unmitigated scenario were used. For an adult resident for the 9-year scenario, inhalation rate was varied from 452 L/kg BW-day to 581 L/kg BW-day. For an adult resident for the 30-year and 70-year scenarios, inhalation rate was varied from 271 L/kg BW-day to 393 L/kg BW-day. The lower end of the range is an estimate from OEHHA for inhalation rate for average activity levels. The upper end is an estimate from OEHHA for high activity levels. The adult resident inhalation rate used in the CFTP calculation in Section 4 was 20 m<sup>3</sup>/day, which is equivalent to 286 L/kg BW-day. Incremental cancer risks and chronic non-cancer hazards for adult residents resulting from these additional inhalation rates are summarized in **Table 8**. These calculations are provided in Attachment C.

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<sup>34</sup> California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, August 2003.

<sup>35</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

<sup>36</sup> City of Los Angeles, Los Angeles World Airports, Draft Environmental Impact Report for South Airfield Improvement Project, Los Angeles International Airport (LAX), August 2005.

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Table 8

### Estimated Incremental Cancer Risks and Incremental Chronic Non-Cancer Hazard Indices for Varying Inhalation Rates for Unmitigated Scenario

Inhalation Rates (L/kg BW-day) <sup>1</sup>	Presented in CFTP Analysis	Sensitivity Analysis					
	70-year Scenario	9-year Scenario		30-year Scenario		70-year Scenario	
	286 <sup>2</sup>	452	581	271	393	271	393
Off-Airport Adult Resident							
Cancer Inhalation Risks (per million individuals)	4	0.8	1.1	2	2	4	6
Chronic Non-cancer Inhalation Hazards Indices	0.006	0.009	0.01	0.005	0.008	0.005	0.008

<sup>1</sup> L/kg BW-day = Liters per kilogram of body weight per day

<sup>2</sup> 286 L/kg BW-day for the off-airport adult resident corresponds to a 70 kg adult breathing 20 m<sup>3</sup>/day for a 24 hour day. 20 m<sup>3</sup>/day is the breathing rate recommended for an adult resident by U.S. EPA, (1989).

Source: CDM, 2008.

Varying the inhalation rate for the adult resident would not materially affect conclusions about the impact of the CFTP. The highest incremental cancer risk for an adult resident under a 70-year scenario identified in Section 4 is 4 in one million. Using the upper end of the range of inhalation rates for the adults only increases this estimate to about 6, or about 50 percent. This increase does not change the conclusions of potential impacts of the project.

Highest incremental chronic non-cancer HIs for adult residents under the CFTP also show very little change as result of different assumptions for inhalation rate. Again, incremental chronic non-cancer hazards might increase for residents by about 50 percent, and would remain below the significance threshold of 1 in all instances.

## 5.4 Uncertainties Associated with Toxicity Assessment

A potentially large source of uncertainty is inherent in the derivation of the CalEPA toxicity criteria (cancer slope factors and RELs). In many cases, data used to develop toxicity criteria must be extrapolated from animals to sensitive humans. For example, the application of uncertainty factors to estimated no-observable-adverse-effects-levels (NOAELs) or lowest-observed-adverse-effects-levels (LOAELs) are typically used to develop RELs. While designed to be protective, in many cases toxicity criteria are likely to overestimate the magnitude of differences that may exist between humans and animals, and among humans.

In some cases, however, toxicity criteria may be based on studies that did not detect the most sensitive adverse effects. For example, many past studies have not measured possible toxic effects on the immune system. Moreover, some chemicals may cause subtle effects not easily recognized in animal studies. Overall, toxicity criteria are likely to be protective for most or all exposed populations. These criteria are constantly being reconsidered in light of new research and are subject to occasional change during this process. The nature and direction of these changes cannot be predicted and currently available criteria are the best source of toxicity information for use in health risk assessments.



## **5.5 Uncertainties in Risk Characterization**

### **5.5.1 Uncertainties in Acute Hazard Estimates**

TACs selected to evaluate acute hazards associated with construction-only impacts for the CFTP were selected from the list of TACs of concern prepared for the LAX Master Plan Final EIR<sup>37</sup> and subsequently refined as described in Section 4.3.2.4.1 of the CFTP Draft EIR. The refined list of TACs included only TACs with acute RELs developed by OEHHA. Estimation of potential acute hazards for the CFTP using only the acute RELs developed by OEHHA adds additional uncertainty to this analysis.

Acute toxicity screening levels for some of the TACs eliminated from the CFTP acute evaluation are available from the Agency for Toxic Substances and Disease Registry (ATSDR) in the form of published acute minimal risk levels (MRLs) for hazardous substances. MRLs were established to provide a screening tool for public health professionals to use to identify if potential human health hazards exist from contamination at hazardous waste sites. MRLs are often based on animal studies because relevant human studies are lacking. ATSDR assumes that humans are more sensitive than animals to the effects of hazardous substances and that certain persons may be particularly sensitive. Thus, the resulting MRL may be as much as a hundredfold below levels shown to be nontoxic in laboratory animals. This approach is conservative (i.e., protective) for public health.

Acetone, ethylbenzene, methyl-tert-butyl ether (MTBE), and phosphorus were eliminated from the CFTP acute evaluation; however, these TACs have acute ATSDR MRLs. Acute inhalation MRLs for acetone, ethylbenzene, MTBE, and phosphorus are 26 parts per million (ppm), 10 ppm, 2 ppm, and 0.02 mg/m<sup>3</sup>, respectively. All of these MRLs except for phosphorus are high, reflecting the low acute toxicity of these chemicals. It's unlikely that these chemicals would rival formaldehyde, the risk driver for potential acute hazards. Lack of inclusion of these chemicals in the quantitative risk assessment is not expected to change the conclusions of the acute risk evaluation. Phosphorus in combustion emissions is likely to be the form of oxyanions rather than as elemental P. The acute MRL for phosphorus is based on the elemental form (white phosphorus) which is not anticipated in LAX construction emissions. Thus, acute hazards due to phosphorus in construction-related sources are highly unlikely to be significant.

According to the LAX Master Plan Final EIR,<sup>38</sup> the majority of TACs associated with LAX, including those with toxicity similar to toxicity for the three VOCs identified above, do not contribute significantly to potential acute health hazards. As discussed in Section 4.1.3 of this appendix, acrolein is responsible for the majority of acute hazards associated with operations at LAX and is the only TAC that approaches the threshold for acute effects. Acrolein is primarily associated with aircraft emissions, which were not assessed in the CFTP incremental acute evaluation for construction-only activities.

### **5.5.2 Uncertainties Associated with Elimination of Potentially Complete Exposure Pathways**

The CFTP EIR HHRA evaluates the potentially complete exposure pathway of direct inhalation of TACs released from the CFTP. However, other exposure pathways, such as exposure to TACs deposited onto soils, could also be important. For example, children might ingest TACs that deposited onto soil through hand-to-mouth activity during outdoor play, or residents who have gardens could ingest TACs taken up from soil into plants. For the CFTP HHRA, based on the multi-pathway screening analysis in the LAX Master Plan Final EIR and other airport HHRAs, inhalation of TACs was considered the primary exposure pathway, and exposures and risks from inhalation of TACs were quantified.

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<sup>37</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

<sup>38</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

Other potential exposure pathways were analyzed in a two-step screening process described in Technical Report 14a Attachment B, Section 2.5.3 of the LAX Master Plan Final EIR. In the first step, air dispersion modeling was used to determine potential TAC concentrations in air on or near LAX, and these concentrations were used to estimate deposition of TACs onto soils over time. In the second screening step, concentrations of TACs estimated in soil were compared to the range of background concentrations of these chemicals to determine the relative impacts of deposition from air. This analysis indicated that impacts to soils from deposition of TACs from airport operations would be negligible and that the estimated contribution from LAX emissions would make no measurable difference in expected background concentrations of metals. Therefore, secondary pathways involving TACs in soil were not further evaluated.

### **5.6 Uncertainties in Background Estimates (MATES-III)**

Risks from MATES-III were calculated based on monitoring data collected from April 2005 through March 2006. Modeling during the MATES-III study was used only to fully characterize basin risks -- not to project what future concentrations and risks would be. As such, comparisons between project-related estimated risks with the MATES-III results must be interpreted in recognition of the different time periods being represented. One may surmise that basin-wide cancer risks would likely increase in time with the inevitable increase in mobile sources along with population growth. On the other hand, currently adopted emission standards for mobile sources will tend to push future TAC emissions downward. It is not known at this time to what extent these two conditions would offset one another.

However, according to the CARB data, carcinogenic risks due to many TACs have decreased 44 to 63 percent since 1990. If continuing progress is made toward reductions in TAC emissions in the South Coast Air Basin, MATES-III could over predict potential background risks for year 2007 and beyond. If this is true, however, the traffic component of the air dispersion modeling for LAX emissions is likely to be too large also. Progress toward decreasing TAC emissions in the South Coast Air Basin must focus on mobile sources, which are the major contributors. Reductions in mobile source emissions would affect emissions from both airport and non-airport related traffic. Overall, the effect of general reductions in mobile source emissions could increase the relative contribution of LAX to basin-wide risks, but any such increase may be tempered by effects of general reductions on LAX-related traffic.

Unfortunately, trends are not available for diesel particulates because these compounds were not previously monitored. Diesel particulates have been found to contribute about 84 percent of the carcinogenic risks in the South Coast Air Basin, whether estimated risks (such as those calculated in the MATES-III) would increase or decrease in the future. Again, and importantly, any general decrease in diesel emissions would also reduce diesel emissions in LAX-related traffic. Since diesel emissions were also a major contributor to LAX-related cancer risks, changing background as a result of better control of diesel emissions may not greatly affect the LAX contribution to basin-wide cancer risks.

### **5.7 Uncertainties Associated with Evaluation of Cumulative Chronic Non-Cancer Hazards**

A semi-quantitative evaluation was performed for the SAIP by taking a range of possible hazards calculated from USEPA estimates for census tracts in the study area, and comparing these estimates to hazards predicted from modeling of LAX emissions. The resulting comparisons are then used only to establish a range of possible relative contributions of LAX operations. These comparisons are subject to high uncertainty and could either under- or overestimate the possible impacts of LAX on cumulative chronic hazards. Estimated cumulative hazards can only be used to make general statements on the possible magnitude of relative contributions, and cannot be used as estimates of actual cumulative hazards for any locations around LAX. These uncertainties would also apply to the CFTP.

## **5.8 Uncertainties Associated with Evaluation of Cumulative Acute Non-Cancer Hazards**

The semi-quantitative evaluation of acute hazards performed for the HHRA must be interpreted with great caution. The process included taking a range of possible annual average concentrations from USEPA estimates, subject to high uncertainty, for census tracts in the study area, converting these values to 1-hour maximum concentrations, and comparing these estimates to 1-hour maxima from modeling of LAX emissions. Each of these steps compounds uncertainties and resulting comparisons can only be viewed as a general assessment of relative impacts that may substantially overestimate the contribution of LAX operations. Estimated cumulative hazards cannot be used as estimates of actual cumulative acute hazards for any locations around LAX.

Recent studies suggest that predicted concentrations of acrolein in air associated with LAX operations may be over-estimated. Acrolein is unlikely to be transported over long distances because of its high reactivity and estimated short half-life in air. A recent study at Chicago O'Hare Airport found that acrolein was not a significant TAP associated with airport operations. The Illinois EPA measured airborne levels of various air contaminants in the vicinity of the O'Hare Airport as well as at other locations in the Chicago area over a seven-month period in 2000. An objective of the air toxics monitoring program was to determine if emissions associated with O'Hare Airport had a measurable impact on air quality in areas adjacent to the airport. Acrolein was not reported at measurable levels in air at locations near the airport during the air toxic monitoring program.

## **5.9 Interactions Among Acrolein and Criteria Pollutants**

TACs that act in similar way to produce toxicity may cause additive, or even greater than additive, impacts to human health. Acrolein and criteria pollutants, such as oxides of nitrogen and ozone, all act as irritants to the upper respiratory system. Thus, interactions among these chemicals are possible. Whether such interactions actually occur, and are important for emissions from LAX operations, cannot be ascertained with available information. Many uncertainties exist, including:

- ◆ Reliability of acrolein concentration estimates (see Section 5.8).
- ◆ Lack of information on specific mechanisms of toxicity for the chemicals in question, which will affect the potential for and degree of any interactions.
- ◆ Lack of information on thresholds at which interactions may occur.

Without extensive additional research, the potential for impacts related to interactions among acrolein and criteria pollutants cannot be further assessed.

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## **Attachment A**

### **Construction Activity Parameters and Emission Rates**

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**TABLE A-1**

Construction - Emissions Summary (Maximum Daily, Maximum Quarterly, Annual, and Project Total)

**Maximum Daily Emissions, Uncontrolled (lb/day)**

Pollutant	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Project Max
Reactive organic Gas, ROG	95.3	130.1	249.9	261.7	278.1	228.3	278.1
Respirable particulates, PM10	67.7	288.6	310.4	231.3	274.3	72.5	310.4

Source: ESC 2008, CDM 2008, and SCAQMD 2007.

Prepared by: CDM 2008.

**Maximum Daily Emissions, Controlled (lb/day)<sup>a</sup>**

Pollutant	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Project Max
Reactive organic Gas, ROG	95.3	130.1	249.9	261.7	278.1	228.3	278.1
Respirable particulates, PM10	50.2	114.7	97.7	72.1	126.2	48.7	126.2

Source: ESC 2008, CDM 2008, and SCAQMD 2007.

Prepared by: CDM 2008.

a. "Controlled" includes emission reduction measures required by regulation (e.g., SCAQMD Rule 403), or the LAX Master Plan Community

Benefits Agreement (construction equipment diesel particulate filters). These reduction are part of the project design.

**Maximum Daily Emissions, Controlled, by Equipment Category (lb/day)**

Equipment Type	ROG	PM10
Off-road, On-Site Equipment	88.8	20.8
On-Road, On-Site Trucks	2.3	1.9
On-Road, Offsite Deliveries <sup>b</sup>	20.2	17.2
On-Road, Offsite Workers <sup>b</sup>	11.3	10.1
Fugitive Dust		76.1
Paving/Painting ROG	148.2	
<b>Total (lbs/day)</b>	<b>270.8</b>	<b>126.2</b>

Prepared by: CDM 2008.

b. Offsite vehicle trip emissions for worker trips, delivery and haul truck trips are not included in dispersion modeling of on-airport TAC emissions.

**Maximum Quarterly Emissions, Uncontrolled (tons/quarter)**

Pollutant	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Project Max
Reactive organic Gas, ROG	2.89	4.61	5.12	4.39	4.98	2.36	5.12
Respirable particulates, PM10	2.32	10.16	9.95	7.93	10.03	2.10	10.16

**Maximum Quarterly Emissions, Controlled (tons/quarter)**

Pollutant	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 5	Qtr 6	Project Max
Reactive organic Gas, ROG	2.89	4.61	5.12	4.39	4.98	2.36	5.12
Respirable particulates, PM10	1.81	4.29	3.40	2.74	4.29	1.57	4.29

Source: ESC 2008, CDM 2008, and SCAQMD 2007.

Prepared by: CDM 2008.

SCAQMD Significance Threshold = South Coast Air Quality Management District Air Quality Significance Threshold for construction emissions,

December 2007, <http://www.aqmd.gov/CEQA/handbook/signthres.pdf>

**Total Emissions, Uncontrolled (tons)**

Pollutant	Year 1	Year 2	Project Total
ROG	16.95	7.32	24.27
PM10	30.37	12.13	42.49

**Total Emissions, Controlled (tons)**

Pollutant	Year 1	Year 2	Project Total
ROG <sup>c</sup>	16.95	7.32	24.27
PM10 <sup>c</sup>	10.69	4.38	15.06

c. Annual emissions of ROG from painting/paving and PM10 from fugitive dust were calculated using URBEMIS 2007 v.9.2.4.





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**Attachment B**

**AERMOD Output Files for 2007 CFTP**

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**Table B-1**  
**TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP**

TOG Profile 441-Gasoline Vehicles-Catalyst-Stabilized-2003			TOG Profile 818-Diesel Farm Equipment		
Compound	TOG fraction		Compound	TOG fraction	
acetaldehyde	0.00241	ChC	acetaldehyde	0.07353	ChC
acetone	0.00164		acetone	0.07507	
acetylene	0.03320998		acetylene	0.04254	
acrolein	0.00135	ACh	alkene ketone	0.01749	
benzaldehyde	0.00164		benzaldehyde	0.00699	
benzene	0.02636	AChC	benzene	0.02000998	AChC
1,2-butadiene (methylallene)	0.0001		butadiene, 1,3-	0.0019	ChC
butadiene, 1,3-	0.0055	ChC	n-butane	0.00104	
n-butane	0.00782		1-butene	0.00666	
1-butene	0.00425		cis-2-butene	0.00094	
cis-2-butene	0.00174		trans-2-butene	0.00195	
trans-2-butene	0.00241		isomers of butylbenzene	0.00127	
butyraldehyde	0.00019		t-butylbenzene	0.00006	
c6 aldehydes	0.00019		butyraldehyde	0.01867998	
crotonaldehyde	0.00029		c10 aromatics	0.00079	
cyclohexane	0.00608		c5 aldehyde	0.0011	
cyclohexene	0.00087		c6 aldehydes	0.03799	
cyclopentane	0.00357		c9 aromatics	0.00497	
cyclopentene	0.00193		cyclohexane	0.00026	
n-decane	0.00154		cyclohexanone	0.00107	
1,3-diethylbenzene (meta)	0.00029		cyclopentane	0.00012	
1,4-diethylbenzene (para)	0.00068		n-decane	0.00529	
1-(1,1-dimethylethyl)-3,5-dimethylbenzene	0.0001		1,2-diethylbenzene (ortho)	0.00086	
1,2-dimethyl-3-ethylbenzene	0.0001		isomers of diethylbenzene	0.00135	
1,2-dimethyl-4-ethylbenzene	0.00106		2,2-dimethylbutane	0.00061	
2,2-dimethylbutane	0.00637		2,3-dimethyl-1-butene	0.00028	
2,2-dimethylhexane	0.00068		2,3-dimethylhexane	0.00011	
2,2-dimethyloctane	0.0001		2,3-dimethylpentane	0.00073	
2,3-dimethyl-1-butene	0.0001		2,4-dimethylhexane	0.00036	
2,3-dimethylbutane	0.01051998		2,4-dimethylpentane	0.00019	
2,3-dimethylhexane	0.00241		3,3-dimethyl-1-butene	0.0282	
2,3-dimethyloctane	0.0001		ethane	0.00565	
2,3-dimethylpentane	0.01438998		ethanol	0.00009	
2,4-dimethyl-2-pentene	0.00019		ethylbenzene	0.00305	ChC
2,4-dimethylheptane	0.00068		ethylene	0.14377	
2,4-dimethylhexane	0.0027		ethylhexane	0.00061	
2,4-dimethyloctane	0.00039		formaldehyde	0.14714	AChC
2,4-dimethylpentane	0.00434		n-heptane	0.00068	
2,5-dimethylhexane	0.00338		hexane, n-	0.00157	Ch
2,5-dimethyloctane	0.00039		indan	0.00188	
2,6-dimethylheptane	0.00174		isobutane	0.01221998	
2,6-dimethyloctane	0.0001		isobutylene	0.00922	
3,3-dimethyloctane	0.00039		isopentane	0.00602	
3,3-dimethylpentane	0.0001		isopropylbenzene (cumene)	0.00015	
3,4-dimethylheptane	0.00039		methane	0.04084	
3,5-dimethylheptane	0.00145		(1-methylpropyl)benzene	0.00051	
cis-1,2-dimethylcyclohexane	0.00029		(2-methylpropyl)benzene	0.00126	
cis-1,3-dimethylcyclohexane	0.00077		1-methyl-2-ethylbenzene	0.00138	
cis-1,3-dimethylcyclopentane	0.00232		1-methyl-3-ethylbenzene	0.00247	
trans-1,3-dimethylcyclohexane	0.00039		2-methylheptane	0.00057	
trans-1,3-dimethylcyclopentane	0.00261		2-methylhexane	0.00115	
trans-1,4-dimethylcyclohexane	0.00039		2-methylpentane	0.00392	
1,3-dipropylbenzene	0.0001		3-methylhexane	0.00348	
n-dodecane	0.0001		3-methylpentane	0.00115	
ethane	0.01051998		b-methylstyrene	0.00047	
ethanol	0.00068		methylcyclohexane	0.00068	
3-ethylpentane	0.00261		methylcyclopentane	0.00149	
ethylbenzene	0.01072	ChC	methyl alcohol	0.0003	ACh
ethylcyclopentane	0.00145		methyl ethyl ketone	0.01476998	ACh
ethylene	0.06497998		methyl n-butyl ketone	0.00899	
formaldehyde	0.01698998	AChC	naphthalene	0.00085	ChC
n-heptane	0.00502		n-nonane	0.0023	
cis-2-heptene	0.0001		n-octane	0.0014	
trans-2-heptene	0.0001		n-pentane	0.00175	
trans-3-heptene	0.00048		1-pentene	0.00324	
hexane, n-	0.01584	Ch	cis-2-pentene	0.0003	
1-hexene	0.00048		trans-2-pentene	0.0004	
cis-2-hexene	0.00039		1,2-propadiene	0.00466	
trans-2-hexene	0.00126		propane	0.00185	
trans-3-hexene	0.00048		propionaldehyde	0.0097	
indan	0.00087		n-propylbenzene	0.00122	
isobutane	0.00019		propylene	0.02596998	Ch
isobutylene	0.03341		styrene	0.00058	ACh
isopentane	0.06835999		toluene	0.01473	ACh
isoprene	0.00145		1,2,3-trimethylbenzene	0.0012	
isopropylbenzene (cumene)	0.0001		1,2,4-trimethylbenzene	0.0053	
isovaleraldehyde	0.00039		1,3,5-trimethylbenzene	0.00194	
methane	0.18719986		2,2,4-trimethylpentane	0.00298	
1-methyl-2-ethylbenzene	0.0028		2,3,4-trimethylpentane	0.00015	
1-methyl-2-isopropylbenzene	0.00048		n-undecane	0.00261	
1-methyl-2-n-butylbenzene	0.0001		unidentified	0.13862	
1-methyl-2n-propylbenzene	0.0001		xylene, m-	0.00611	ACh
1-methyl-3-ethylbenzene	0.00811		xylene, o-	0.00335	ACh

**Table B-1**  
**TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP**

TOG Profile 441-Gasoline Vehicles-Catalyst-Stabilized-2003		TOG Profile 818-Diesel Farm Equipment	
Compound	TOG fraction	Compound	TOG fraction
1-methyl-3-isopropylbenzene	0.00029	xylene, p-	0.00095 ACh
1-methyl-3n-propylbenzene	0.00154	acrolein	0
1-methyl-4-ethylbenzene	0.00338	ethylene glycol	0
1-methyl-4-ethylcyclohexane	0.0001	isopropyl alcohol	0
2-methyl-1-butene	0.0029	methyl t-butyl ether	0
2-methyl-1-pentene	0.00068		
2-methyl-2-butene	0.00415		
2-methyl-2-pentene	0.00077		
2-methyl-2-propenal	0.00087		
2-methylheptane	0.00338		
2-methylindan	0.00019		
2-methylnonane	0.00087		
2-methyloctane	0.0001		
2-methylpentane	0.03716998		
2-methyl-trans-3-hexene	0.00039		
3-methyl-1-butene	0.00232		
3-methyl-1-pentene	0.00106		
3-methyl-cis-2-hexene	0.0001		
3-methylcyclopentene	0.00068		
3-methylheptane	0.00599		
3-methylhexane	0.00763		
3-methyloctane	0.00299		
3-methylpentane	0.02181998		
4-methyl-1-pentene	0.0001		
4-methylheptane	0.00154		
4-methylindan	0.0001		
4-methyloctane	0.00232		
4-methyl-trans-2-pentene	0.00058		
5-methylindan	0.00019		
cis-1-methyl-3-ethylcyclopentane	0.00068		
trans-1-methyl-3-ethylcyclopentane	0.00106		
methyl alcohol	0.00406	ACh	
methyl ethyl ketone	0.00019	ACh	
methyl t-butyl ether	0.01941	ChC	
methylcyclohexane	0.00608		
methylcyclopentane	0.02761		
naphthalene	0.00048	ChC	
n-nonane	0.00174		
n-octane	0.00386		
n-pentane	0.02761		
1-pentene	0.00135		
cis-2-pentene	0.00116		
trans-2-pentene	0.00212		
n-pentylbenzene	0.0001		
1,2-propadiene	0.00145		
propane	0.00058		
propionaldehyde	0.00039		
n-propylbenzene	0.00232		
propylene	0.03127998	Ch	
1-propyne	0.00232		
styrene	0.00126	ACh	
1,2,3,4-tetramethylbenzene	0.00019		
1,2,3,5-tetramethylbenzene	0.00029		
1,2,4,5-tetramethylbenzene	0.00019		
tolualdehyde	0.00222		
toluene	0.05879998	ACh	
1,2,3-trimethylbenzene	0.00174		
1,2,4-trimethylbenzene	0.00985		
1,2,4-trimethylcyclopentene	0.00126		
1,3,5-trimethylbenzene	0.00396		
1,3,5-trimethylcyclohexane	0.00068		
1,3-dimethyl-4-ethylbenzene	0.00048		
1,3-dimethyl-5-ethylbenzene	0.00116		
1,4-dimethyl-2-ethylbenzene	0.00048		
2,2,3-trimethylbutane	0.0001		
2,2,4-trimethylheptane	0.00019		
2,2,4-trimethylhexane	0.00077		
2,2,4-trimethylpentane	0.01719		
2,2,5-triethylheptane	0.00058		
2,2,5-trimethylhexane	0.00319		
2,3,4-trimethylpentane	0.00599		
2,3,5-trimethylhexane	0.00019		
cis-1,trans-2,3-trimethylcyclopentane	0.00058		
n-undecane	0.0001		
vinylacetylene	0.00068		
xylene, m-	0.03639998	ACh	
xylene, o-	0.01264998	ACh	
ethylene glycol	0		
isopropyl alcohol	0		
xylene, p-	0		

**Table B-1**  
**TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP**

TOG Profile 715-Slow cure asphalt		TOG Profile 1811-Ground/Traffic/Marking Coatings	
Compound	TOG fraction	Compound	TOG fraction
c11 cycloalkanes	0.04120998	acetone	0.065871
c12 cycloalkanes	0.03115998	aliphatics	0.009309
c13 internal alkenes	0.05627998	butane, n-	0.064566
c2 alkyl decalin	0.03919998	butyl alcohol, n-	0.000338
c2 alkyl indan	0.11254	butyl cellosolve {2-butoxyethanol} {egbe}	0.006001
c4 substituted cyclohexanone	0.02311998	cyclohexane	0.001986
decane, n-	0.02813998	cyclohexanol	0.000286
dodecane, n-	0.18592972	di(propylene glycol) methyl ether	0.004519
methylnaphthalenes	0.10250998	distillates/naphtha/mineral spirits	0.220853
naphthalene	0.06533	ethylbenzene	0.009931
pentylcyclohexane, n-	0.02009998	ethylene glycol	0.001282
tetradecane, isomers of	0.03115998	hexane, n-	0.029998
tridecane, isomers of	0.09648	hydrocarbon propellant {lpg, sweetened}	0.150870
trimethylbenzene	0.08945	isobutane	0.034194
undecane, n-	0.07738998	isopropyl alcohol	0.003107
acetaldehyde	0	methyl alcohol	0.001746
acrolein	0	methyl ethyl ketone	0.001181
benzene	0	other misc voc compounds aggregated in profile	0.008752
butadiene, 1,3-	0	propane	0.157580
ethylbenzene	0	propyleneglycolmonomethyletheracetate(2-(1-methoxy)propylacetate)	0.000435
ethylene glycol	0	toluene	0.092542
formaldehyde	0	xylene, isomers of	0.132904
hexane, n-	0	xylene, m-	0.000930
isopropyl alcohol	0	xylene, o-	0.000410
methyl alcohol	0	xylene, p-	0.000410
methyl ethyl ketone	0	acetaldehyde	0
methyl t-butyl ether	0	acrolein	0
propylene	0	benzene	0
styrene	0	butadiene, 1,3-	0
toluene	0	formaldehyde	0
xylene, m-	0	methyl t-butyl ether	0
xylene, o-	0	naphthalene	0
xylene, p-	0	propylene	0
		styrene	0

Table B-1  
TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP

TOG Profile 715-Slow cure asphalt		TOG Profile 1811-Ground/Traffic/Marking Coatings	
Compound	TOG fraction	Compound	TOG fraction

**Table B-2**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs , Gasoline, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                    DEFAULT ELEV   FLGPOL  
 \*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE  
 \*                    FOR A TOTAL OF 120 RECEPTORS.  
 \*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	Gasoline TOG/VOC Ratio	TOG	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol
											(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
367484	3755199	0.11564	0	0	1.8	1-HR	GASOLINE	1ST	96020707	1.118	0.12927	3.116E-04	1.745E-04	3.408E-03	7.110E-04	1.386E-03	0.000E+00	2.196E-03	2.048E-03	0.000E+00
367301	3755623	0.13839	0	0	1.8	1-HR	GASOLINE	1ST	96011508		0.15471	3.728E-04	2.089E-04	4.078E-03	8.509E-04	1.658E-03	0.000E+00	2.628E-03	2.451E-03	0.000E+00
367114	3756056	0.15354	0	0	1.8	1-HR	GASOLINE	1ST	96030207		0.17164	4.137E-04	2.317E-04	4.524E-03	9.440E-04	1.840E-03	0.000E+00	2.916E-03	2.719E-03	0.000E+00
366985	3756358	0.11513	0	0	1.8	1-HR	GASOLINE	1ST	96020407		0.12870	3.102E-04	1.738E-04	3.393E-03	7.079E-04	1.380E-03	0.000E+00	2.187E-03	2.039E-03	0.000E+00
366853	3756663	0.09177	0	0	1.8	1-HR	GASOLINE	1ST	96012907		0.10259	2.472E-04	1.385E-04	2.704E-03	5.642E-04	1.100E-03	0.000E+00	1.743E-03	1.625E-03	0.000E+00
366902	3756692	0.09207	0	0	1.8	1-HR	GASOLINE	1ST	96012907		0.10292	2.480E-04	1.389E-04	2.713E-03	5.661E-04	1.103E-03	0.000E+00	1.749E-03	1.630E-03	0.000E+00
366876	3756760	0.08816	0	0	1.8	1-HR	GASOLINE	1ST	96012907		0.09855	2.375E-04	1.330E-04	2.598E-03	5.420E-04	1.056E-03	0.000E+00	1.674E-03	1.561E-03	0.000E+00
366813	3756739	0.0872	0	0	1.8	1-HR	GASOLINE	1ST	96012907		0.09748	2.349E-04	1.316E-04	2.570E-03	5.361E-04	1.045E-03	0.000E+00	1.656E-03	1.544E-03	0.000E+00
366677	3757025	0.06773	0	0	1.8	1-HR	GASOLINE	1ST	96012907		0.07572	1.825E-04	1.022E-04	1.996E-03	4.164E-04	8.117E-04	0.000E+00	1.286E-03	1.199E-03	0.000E+00
366536	3757322	0.05777	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.06458	1.556E-04	8.718E-05	1.702E-03	3.552E-04	6.923E-04	0.000E+00	1.097E-03	1.023E-03	0.000E+00
366437	3757531	0.0516	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.05768	1.390E-04	7.787E-05	1.521E-03	3.173E-04	6.184E-04	0.000E+00	9.800E-04	9.137E-04	0.000E+00
366487	3757537	0.05199	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.05812	1.401E-04	7.846E-05	1.532E-03	3.197E-04	6.230E-04	0.000E+00	9.875E-04	9.206E-04	0.000E+00
366624	3757468	0.05587	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.06246	1.505E-04	8.432E-05	1.646E-03	3.435E-04	6.695E-04	0.000E+00	1.061E-03	9.893E-04	0.000E+00
366644	3757531	0.05403	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.06040	1.456E-04	8.154E-05	1.592E-03	3.322E-04	6.475E-04	0.000E+00	1.026E-03	9.567E-04	0.000E+00
366777	3757520	0.05605	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.06266	1.510E-04	8.459E-05	1.652E-03	3.446E-04	6.717E-04	0.000E+00	1.065E-03	9.925E-04	0.000E+00
366999	3757642	0.0514	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.05746	1.385E-04	7.757E-05	1.515E-03	3.160E-04	6.160E-04	0.000E+00	9.762E-04	9.102E-04	0.000E+00
367174	3757740	0.0444	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.04963	1.196E-04	6.701E-05	1.308E-03	2.730E-04	5.321E-04	0.000E+00	8.433E-04	7.862E-04	0.000E+00
367291	3757694	0.04724	0	0	1.8	1-HR	GASOLINE	1ST	96020207		0.05281	1.273E-04	7.129E-05	1.392E-03	2.905E-04	5.661E-04	0.000E+00	8.972E-04	8.365E-04	0.000E+00
367413	3757695	0.05295	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.05919	1.427E-04	7.991E-05	1.560E-03	3.256E-04	6.345E-04	0.000E+00	1.006E-03	9.376E-04	0.000E+00
367410	3757736	0.05404	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.06041	1.456E-04	8.154E-05	1.592E-03	3.323E-04	6.476E-04	0.000E+00	1.026E-03	9.569E-04	0.000E+00
367518	3757796	0.06203	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.06934	1.671E-04	9.361E-05	1.828E-03	3.814E-04	7.434E-04	0.000E+00	1.178E-03	1.098E-03	0.000E+00
367539	3757802	0.06347	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.07095	1.710E-04	9.579E-05	1.870E-03	3.902E-04	7.606E-04	0.000E+00	1.205E-03	1.124E-03	0.000E+00
367609	3757677	0.06509	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.07276	1.754E-04	9.823E-05	1.918E-03	4.002E-04	7.800E-04	0.000E+00	1.236E-03	1.153E-03	0.000E+00
367769	3757644	0.07668	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.08572	2.066E-04	1.157E-04	2.260E-03	4.715E-04	9.189E-04	0.000E+00	1.456E-03	1.358E-03	0.000E+00
367775	3757719	0.07836	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.08760	2.111E-04	1.183E-04	2.309E-03	4.818E-04	9.391E-04	0.000E+00	1.488E-03	1.388E-03	0.000E+00
367809	3757835	0.08063	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.09014	2.172E-04	1.217E-04	2.376E-03	4.957E-04	9.663E-04	0.000E+00	1.531E-03	1.428E-03	0.000E+00
367807	3757936	0.07868	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.08796	2.120E-04	1.187E-04	2.319E-03	4.838E-04	9.429E-04	0.000E+00	1.494E-03	1.393E-03	0.000E+00
367775	3757959	0.07674	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.08579	2.067E-04	1.158E-04	2.261E-03	4.718E-04	9.196E-04	0.000E+00	1.458E-03	1.359E-03	0.000E+00
367798	3758011	0.07619	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.08517	2.053E-04	1.150E-04	2.245E-03	4.685E-04	9.131E-04	0.000E+00	1.447E-03	1.349E-03	0.000E+00
367914	3757962	0.08173	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.09137	2.202E-04	1.233E-04	2.408E-03	5.025E-04	9.794E-04	0.000E+00	1.552E-03	1.447E-03	0.000E+00
367905	3757930	0.08274	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.09249	2.229E-04	1.249E-04	2.438E-03	5.087E-04	9.915E-04	0.000E+00	1.571E-03	1.465E-03	0.000E+00
368109	3757840	0.09393	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.10500	2.531E-04	1.418E-04	2.768E-03	5.775E-04	1.126E-03	0.000E+00	1.784E-03	1.663E-03	0.000E+00
368233	3757790	0.10036	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.11219	2.704E-04	1.515E-04	2.957E-03	6.171E-04	1.203E-03	0.000E+00	1.906E-03	1.777E-03	0.000E+00
368309	3757762	0.10381	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.11605	2.797E-04	1.567E-04	3.059E-03	6.383E-04	1.244E-03	0.000E+00	1.972E-03	1.838E-03	0.000E+00
368603	3757765	0.09518	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.10640	2.564E-04	1.436E-04	2.805E-03	5.852E-04	1.141E-03	0.000E+00	1.808E-03	1.685E-03	0.000E+00
368604	3757719	0.09733	0	0	1.8	1-HR	GASOLINE	1ST	96020108		0.10881	2.622E-04	1.469E-04	2.868E-03	5.984E-04	1.166E-03	0.000E+00	1.849E-03	1.723E-03	0.000E+00
368770	3757799	0.12888	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.14407	3.472E-04	1.945E-04	3.798E-03	7.924E-04	1.544E-03	0.000E+00	2.448E-03	2.282E-03	0.000E+00
369017	3757954	0.12799	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.14308	3.448E-04	1.932E-04	3.772E-03	7.869E-04	1.534E-03	0.000E+00	2.431E-03	2.266E-03	0.000E+00
369080	3757864	0.13621	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.15227	3.670E-04	2.056E-04	4.014E-03	8.375E-04	1.632E-03	0.000E+00	2.587E-03	2.412E-03	0.000E+00
369224	3757952	0.1045	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.11682	2.815E-04	1.577E-04	3.079E-03	6.425E-04	1.252E-03	0.000E+00	1.985E-03	1.850E-03	0.000E+00
369409	3757730	0.08601	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.09615	2.317E-04	1.298E-04	2.535E-03	5.288E-04	1.031E-03	0.000E+00	1.634E-03	1.523E-03	0.000E+00
369454	3757776	0.07246	0	0	1.8	1-HR	GASOLINE	1ST	96040807		0.08100	1.952E-04	1.094E-04	2.135E-03	4.455E-04	8.684E-04	0.000E+00	1.376E-03	1.283E-03	0.000E+00
369265	3757997	0.09262	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.10354	2.495E-04	1.398E-04	2.729E-03	5.695E-04	1.110E-03	0.000E+00	1.759E-03	1.640E-03	0.000E+00
369452	3758128	0.05094	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.05695	1.372E-04	7.688E-05	1.501E-03	3.132E-04	6.105E-04	0.000E+00	9.675E-04	9.020E-04	0.000E+00
369460	3758394	0.04089	0	0	1.8	1-HR	GASOLINE	1ST	96032207		0.04571	1.102E-04	6.171E-05	1.205E-03	2.514E-04	4.900E-04	0.000E+00	7.766E-04	7.241E-04	0.000E+00





**Table B-2**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs , Gasoline, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                    DEFAULT ELEV   FLGPOL  
 \*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE  
 \*                    FOR A TOTAL OF 120 RECEPTORS.  
 \*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	Gasoline TOG/VOC									
										TOG (ug/m <sup>3</sup> )	acetaldehyde (ug/m <sup>3</sup> )	acrolein (ug/m <sup>3</sup> )	benzene (ug/m <sup>3</sup> )	butadiene, 1,3- (ug/m <sup>3</sup> )	ethylbenzene (ug/m <sup>3</sup> )	ethylene glycol (ug/m <sup>3</sup> )	formaldehyde (ug/m <sup>3</sup> )	hexane, n- (ug/m <sup>3</sup> )	isopropyl alcohol (ug/m <sup>3</sup> )
373457	3756236	0.01531	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.01712	4.125E-05	2.311E-05	4.512E-04	9.413E-05	1.835E-04	0.000E+00	2.908E-04	2.711E-04	0.000E+00
373448	3755560	0.01042	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01165	2.807E-05	1.573E-05	3.071E-04	6.407E-05	1.249E-04	0.000E+00	1.979E-04	1.845E-04	0.000E+00
373222	3755569	0.01096	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01225	2.953E-05	1.654E-05	3.230E-04	6.739E-05	1.313E-04	0.000E+00	2.082E-04	1.941E-04	0.000E+00
373219	3755705	0.01139	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01273	3.069E-05	1.719E-05	3.356E-04	7.003E-05	1.365E-04	0.000E+00	2.163E-04	2.017E-04	0.000E+00
373135	3755704	0.01163	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01300	3.133E-05	1.755E-05	3.427E-04	7.151E-05	1.394E-04	0.000E+00	2.209E-04	2.059E-04	0.000E+00
373131	3755567	0.01116	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01248	3.007E-05	1.684E-05	3.289E-04	6.862E-05	1.337E-04	0.000E+00	2.120E-04	1.976E-04	0.000E+00
373054	3755563	0.01131	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.01264	3.047E-05	1.707E-05	3.333E-04	6.954E-05	1.355E-04	0.000E+00	2.148E-04	2.003E-04	0.000E+00
373046	3755174	0.01381	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.01544	3.721E-05	2.084E-05	4.070E-04	8.491E-05	1.655E-04	0.000E+00	2.623E-04	2.445E-04	0.000E+00
372725	3755177	0.01606	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.01795	4.327E-05	2.424E-05	4.733E-04	9.874E-05	1.925E-04	0.000E+00	3.050E-04	2.844E-04	0.000E+00
372624	3755182	0.0168	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.01878	4.526E-05	2.535E-05	4.951E-04	1.033E-04	2.013E-04	0.000E+00	3.191E-04	2.975E-04	0.000E+00
372238	3755186	0.01992	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.02227	5.367E-05	3.006E-05	5.870E-04	1.225E-04	2.387E-04	0.000E+00	3.783E-04	3.527E-04	0.000E+00
371843	3755189	0.02327	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.02601	6.269E-05	3.512E-05	6.857E-04	1.431E-04	2.789E-04	0.000E+00	4.420E-04	4.121E-04	0.000E+00
371463	3755192	0.02632	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.02942	7.091E-05	3.972E-05	7.756E-04	1.618E-04	3.154E-04	0.000E+00	4.999E-04	4.661E-04	0.000E+00
371049	3755196	0.02868	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03206	7.727E-05	4.328E-05	8.451E-04	1.763E-04	3.437E-04	0.000E+00	5.447E-04	5.079E-04	0.000E+00
371056	3755349	0.03168	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03542	8.535E-05	4.781E-05	9.335E-04	1.948E-04	3.796E-04	0.000E+00	6.017E-04	5.610E-04	0.000E+00
371043	3755384	0.03241	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03623	8.732E-05	4.891E-05	9.551E-04	1.993E-04	3.884E-04	0.000E+00	6.156E-04	5.739E-04	0.000E+00
371042	3755556	0.03464	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03872	9.332E-05	5.228E-05	1.021E-03	2.130E-04	4.151E-04	0.000E+00	6.579E-04	6.134E-04	0.000E+00
370996	3755560	0.03543	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03961	9.545E-05	5.347E-05	1.044E-03	2.178E-04	4.246E-04	0.000E+00	6.729E-04	6.274E-04	0.000E+00
371001	3755419	0.03342	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03736	9.004E-05	5.044E-05	9.848E-04	2.055E-04	4.005E-04	0.000E+00	6.347E-04	5.918E-04	0.000E+00
370801	3755276	0.03146	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03517	8.476E-05	4.748E-05	9.271E-04	1.934E-04	3.770E-04	0.000E+00	5.975E-04	5.571E-04	0.000E+00
370667	3755262	0.03119	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03487	8.403E-05	4.707E-05	9.191E-04	1.918E-04	3.738E-04	0.000E+00	5.924E-04	5.523E-04	0.000E+00
370380	3755263	0.03023	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.03379	8.144E-05	4.562E-05	8.908E-04	1.859E-04	3.623E-04	0.000E+00	5.742E-04	5.353E-04	0.000E+00
370076	3755265	0.04194	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.04688	1.130E-04	6.329E-05	1.236E-03	2.579E-04	5.026E-04	0.000E+00	7.966E-04	7.427E-04	0.000E+00
369787	3755267	0.05383	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.06018	1.450E-04	8.124E-05	1.586E-03	3.310E-04	6.451E-04	0.000E+00	1.022E-03	9.532E-04	0.000E+00
369498	3755268	0.05656	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.06323	1.524E-04	8.536E-05	1.667E-03	3.478E-04	6.778E-04	0.000E+00	1.074E-03	1.002E-03	0.000E+00
369194	3755270	0.08288	0	0	1.8	1-HR	GASOLINE	1ST	96030107	0.09265	2.233E-04	1.251E-04	2.442E-03	5.096E-04	9.932E-04	0.000E+00	1.574E-03	1.468E-03	0.000E+00
368889	3755272	0.13003	0	0	1.8	1-HR	GASOLINE	1ST	96011009	0.14536	3.503E-04	1.962E-04	3.832E-03	7.995E-04	1.558E-03	0.000E+00	2.470E-03	2.303E-03	0.000E+00
368569	3755273	0.18669	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.20870	5.030E-04	2.817E-04	5.501E-03	1.148E-03	2.237E-03	0.000E+00	3.546E-03	3.306E-03	0.000E+00
368275	3755275	0.17486	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.19548	4.711E-04	2.639E-04	5.153E-03	1.075E-03	2.096E-03	0.000E+00	3.321E-03	3.096E-03	0.000E+00
367936	3755213	0.1429	0	0	1.8	1-HR	GASOLINE	1ST	96020707	0.15975	3.850E-04	2.157E-04	4.211E-03	8.786E-04	1.712E-03	0.000E+00	2.714E-03	2.530E-03	0.000E+00

**Table B-2**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs , Gasoline, Unmitigated**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC           DFault ELEV FLGPOL
- \* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE
- \* FOR A TOTAL OF 120 RECEPTORS.
- \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	methyl alcohol	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylylene, m-	xylylene, o-	xylylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
367484	3755199	0.11564	0	0	1.8	1-HR	GASOLINE	1ST	96020707	5.249E-04	2.456E-05	2.509E-03	6.205E-05	4.044E-03	1.629E-04	7.601E-03	4.706E-03	1.635E-03	0.000E+00
367301	3755623	0.13839	0	0	1.8	1-HR	GASOLINE	1ST	96011508	6.281E-04	2.939E-05	3.003E-03	7.426E-05	4.839E-03	1.949E-04	9.097E-03	5.631E-03	1.957E-03	0.000E+00
367114	3756056	0.15354	0	0	1.8	1-HR	GASOLINE	1ST	96030207	6.969E-04	3.261E-05	3.332E-03	8.239E-05	5.369E-03	2.163E-04	1.009E-02	6.248E-03	2.171E-03	0.000E+00
366985	3756358	0.11513	0	0	1.8	1-HR	GASOLINE	1ST	96020407	5.225E-04	2.445E-05	2.498E-03	6.178E-05	4.026E-03	1.622E-04	7.568E-03	4.685E-03	1.628E-03	0.000E+00
366853	3756663	0.09177	0	0	1.8	1-HR	GASOLINE	1ST	96012907	4.165E-04	1.949E-05	1.991E-03	4.924E-05	3.209E-03	1.293E-04	6.032E-03	3.734E-03	1.298E-03	0.000E+00
366902	3756692	0.09207	0	0	1.8	1-HR	GASOLINE	1ST	96012907	4.179E-04	1.956E-05	1.998E-03	4.940E-05	3.219E-03	1.297E-04	6.052E-03	3.746E-03	1.302E-03	0.000E+00
366876	3756760	0.08816	0	0	1.8	1-HR	GASOLINE	1ST	96012907	4.001E-04	1.873E-05	1.913E-03	4.731E-05	3.083E-03	1.242E-04	5.795E-03	3.587E-03	1.247E-03	0.000E+00
366813	3756739	0.0872	0	0	1.8	1-HR	GASOLINE	1ST	96012907	3.958E-04	1.852E-05	1.892E-03	4.679E-05	3.049E-03	1.228E-04	5.732E-03	3.548E-03	1.233E-03	0.000E+00
366677	3757025	0.06773	0	0	1.8	1-HR	GASOLINE	1ST	96012907	3.074E-04	1.439E-05	1.470E-03	3.634E-05	2.368E-03	9.540E-05	4.452E-03	2.756E-03	9.578E-04	0.000E+00
366536	3757322	0.05777	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.622E-04	1.227E-05	1.254E-03	3.100E-05	2.020E-03	8.137E-05	3.797E-03	2.351E-03	8.169E-04	0.000E+00
366437	3757531	0.0516	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.342E-04	1.096E-05	1.120E-03	2.769E-05	1.804E-03	7.268E-05	3.392E-03	2.100E-03	7.297E-04	0.000E+00
366487	3757537	0.05199	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.360E-04	1.104E-05	1.128E-03	2.790E-05	1.818E-03	7.323E-05	3.417E-03	2.116E-03	7.352E-04	0.000E+00
366624	3757468	0.05587	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.536E-04	1.187E-05	1.212E-03	2.998E-05	1.954E-03	7.870E-05	3.672E-03	2.273E-03	7.901E-04	0.000E+00
366644	3757531	0.05403	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.452E-04	1.148E-05	1.172E-03	2.899E-05	1.889E-03	7.610E-05	3.552E-03	2.199E-03	7.641E-04	0.000E+00
366777	3757520	0.05605	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.544E-04	1.191E-05	1.216E-03	3.008E-05	1.960E-03	7.895E-05	3.684E-03	2.281E-03	7.926E-04	0.000E+00
366999	3757642	0.0514	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.333E-04	1.092E-05	1.115E-03	2.758E-05	1.797E-03	7.240E-05	3.379E-03	2.092E-03	7.269E-04	0.000E+00
367174	3757740	0.0444	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.015E-04	9.431E-06	9.634E-04	2.382E-05	1.553E-03	6.254E-05	2.919E-03	1.807E-03	6.279E-04	0.000E+00
367291	3757694	0.04724	0	0	1.8	1-HR	GASOLINE	1ST	96020207	2.144E-04	1.003E-05	1.025E-03	2.535E-05	1.652E-03	6.654E-05	3.105E-03	1.922E-03	6.680E-04	0.000E+00
367413	3757695	0.05295	0	0	1.8	1-HR	GASOLINE	1ST	96020108	2.403E-04	1.125E-05	1.149E-03	2.841E-05	1.852E-03	7.458E-05	3.481E-03	2.155E-03	7.488E-04	0.000E+00
367410	3757736	0.05404	0	0	1.8	1-HR	GASOLINE	1ST	96020108	2.453E-04	1.148E-05	1.173E-03	2.900E-05	1.890E-03	7.612E-05	3.552E-03	2.199E-03	7.642E-04	0.000E+00
367518	3757796	0.06203	0	0	1.8	1-HR	GASOLINE	1ST	96020108	2.815E-04	1.318E-05	1.346E-03	3.328E-05	2.169E-03	8.737E-05	4.077E-03	2.524E-03	8.772E-04	0.000E+00
367539	3757802	0.06347	0	0	1.8	1-HR	GASOLINE	1ST	96020108	2.881E-04	1.348E-05	1.377E-03	3.406E-05	2.219E-03	8.940E-05	4.172E-03	2.583E-03	8.976E-04	0.000E+00
367609	3757677	0.06509	0	0	1.8	1-HR	GASOLINE	1ST	96020108	2.954E-04	1.383E-05	1.412E-03	3.493E-05	2.276E-03	9.168E-05	4.279E-03	2.649E-03	9.205E-04	0.000E+00
367769	3757644	0.07668	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.480E-04	1.629E-05	1.664E-03	4.115E-05	2.681E-03	1.080E-04	5.040E-03	3.120E-03	1.084E-03	0.000E+00
367775	3757719	0.07836	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.557E-04	1.664E-05	1.700E-03	4.205E-05	2.740E-03	1.104E-04	5.151E-03	3.189E-03	1.108E-03	0.000E+00
367809	3757835	0.08063	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.660E-04	1.713E-05	1.750E-03	4.327E-05	2.819E-03	1.136E-04	5.300E-03	3.281E-03	1.140E-03	0.000E+00
367807	3757936	0.07868	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.571E-04	1.671E-05	1.707E-03	4.222E-05	2.751E-03	1.108E-04	5.172E-03	3.202E-03	1.113E-03	0.000E+00
367775	3757959	0.07674	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.483E-04	1.630E-05	1.665E-03	4.118E-05	2.683E-03	1.081E-04	5.044E-03	3.123E-03	1.085E-03	0.000E+00
367798	3758011	0.07619	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.458E-04	1.618E-05	1.653E-03	4.088E-05	2.664E-03	1.073E-04	5.008E-03	3.100E-03	1.077E-03	0.000E+00
367914	3757962	0.08173	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.709E-04	1.736E-05	1.773E-03	4.386E-05	2.858E-03	1.151E-04	5.372E-03	3.326E-03	1.156E-03	0.000E+00
367905	3757930	0.08274	0	0	1.8	1-HR	GASOLINE	1ST	96020108	3.755E-04	1.757E-05	1.795E-03	4.440E-05	2.893E-03	1.165E-04	5.439E-03	3.367E-03	1.170E-03	0.000E+00
368109	3757840	0.09393	0	0	1.8	1-HR	GASOLINE	1ST	96020108	4.263E-04	1.995E-05	2.038E-03	5.040E-05	3.285E-03	1.323E-04	6.174E-03	3.822E-03	1.328E-03	0.000E+00
368233	3757790	0.10036	0	0	1.8	1-HR	GASOLINE	1ST	96020108	4.555E-04	2.132E-05	2.178E-03	5.385E-05	3.509E-03	1.414E-04	6.597E-03	4.149E-03	1.419E-03	0.000E+00
368309	3757762	0.10381	0	0	1.8	1-HR	GASOLINE	1ST	96020108	4.712E-04	2.205E-05	2.253E-03	5.570E-05	3.630E-03	1.462E-04	6.824E-03	4.224E-03	1.468E-03	0.000E+00
368603	3757765	0.09518	0	0	1.8	1-HR	GASOLINE	1ST	96032207	4.320E-04	2.022E-05	2.065E-03	5.107E-05	3.328E-03	1.341E-04	6.256E-03	3.873E-03	1.346E-03	0.000E+00
368604	3757719	0.09733	0	0	1.8	1-HR	GASOLINE	1ST	96020108	4.417E-04	2.067E-05	2.112E-03	5.223E-05	3.403E-03	1.371E-04	6.398E-03	3.961E-03	1.376E-03	0.000E+00
368770	3757799	0.12888	0	0	1.8	1-HR	GASOLINE	1ST	96032207	5.849E-04	2.737E-05	2.796E-03	6.916E-05	4.507E-03	1.815E-04	8.472E-03	5.244E-03	1.823E-03	0.000E+00
369017	3757954	0.12799	0	0	1.8	1-HR	GASOLINE	1ST	96032207	5.809E-04	2.719E-05	2.777E-03	6.868E-05	4.476E-03	1.803E-04	8.413E-03	5.208E-03	1.810E-03	0.000E+00
369080	3757864	0.13621	0	0	1.8	1-HR	GASOLINE	1ST	96032207	6.182E-04	2.893E-05	2.956E-03	7.309E-05	4.763E-03	1.919E-04	8.953E-03	5.543E-03	1.926E-03	0.000E+00
369224	3757952	0.1045	0	0	1.8	1-HR	GASOLINE	1ST	96032207	4.743E-04	2.220E-05	2.267E-03	5.607E-05	3.654E-03	1.472E-04	6.869E-03	4.252E-03	1.478E-03	0.000E+00
369409	3757730	0.08601	0	0	1.8	1-HR	GASOLINE	1ST	96032207	3.904E-04	1.827E-05	1.866E-03	4.615E-05	3.008E-03	1.211E-04	5.654E-03	3.500E-03	1.216E-03	0.000E+00
369454	3757776	0.07246	0	0	1.8	1-HR	GASOLINE	1ST	96040807	3.289E-04	1.539E-05	1.572E-03	3.888E-05	2.534E-03	1.021E-04	4.763E-03	2.949E-03	1.025E-03	0.000E+00
369265	3757997	0.09262	0	0	1.8	1-HR	GASOLINE	1ST	96032207	4.204E-04	1.967E-05	2.010E-03	4.970E-05	3.239E-03	1.305E-04	6.088E-03	3.769E-03	1.310E-03	0.000E+00
369452	3758128	0.05094	0	0	1.8	1-HR	GASOLINE	1ST	96032207	2.312E-04	1.082E-05	1.105E-03	2.733E-05	1.781E-03	7.175E-05	3.348E-03	2.073E-03	7.204E-04	0.000E+00
369460	3758394	0.04089	0	0	1.8	1-HR	GASOLINE	1ST	96032207	1.856E-04	8.685E-06	8.872E-04	2.194E-05	1.430E-03	5.760E-05	2.688E-03	1.664E-03	5.782E-04	0.000E+00

**Table B-2**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs , Gasoline, Unmitigated**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC           DFault ELEV FLGPOL
- \* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE
- \* FOR A TOTAL OF 120 RECEPTORS.
- \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	methyl alcohol	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylylene, m-	xylylene, o-	xylylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
369853	3758394	0.03948	0	0	1.8	1-HR	GASOLINE	1ST	96040807	1.792E-04	8.386E-06	8.567E-04	2.118E-05	1.381E-03	5.561E-05	2.595E-03	1.607E-03	5.583E-04	0.000E+00
369850	3758078	0.05221	0	0	1.8	1-HR	GASOLINE	1ST	96092907	2.370E-04	1.109E-05	1.133E-03	2.802E-05	1.826E-03	7.354E-05	3.432E-03	2.125E-03	7.383E-04	0.000E+00
370299	3758078	0.08025	0	0	1.8	1-HR	GASOLINE	1ST	96092907	3.642E-04	1.705E-05	1.741E-03	4.306E-05	2.806E-03	1.130E-04	5.275E-03	3.265E-03	1.135E-03	0.000E+00
370298	3757963	0.09056	0	0	1.8	1-HR	GASOLINE	1ST	96092907	4.110E-04	1.924E-05	1.965E-03	4.859E-05	3.167E-03	1.276E-04	5.953E-03	3.685E-03	1.281E-03	0.000E+00
370382	3757966	0.08906	0	0	1.8	1-HR	GASOLINE	1ST	96092907	4.042E-04	1.892E-05	1.932E-03	4.779E-05	3.114E-03	1.254E-04	5.854E-03	3.624E-03	1.259E-03	0.000E+00
370510	3758027	0.08222	0	0	1.8	1-HR	GASOLINE	1ST	96092907	3.731E-04	1.746E-05	1.784E-03	4.411E-05	2.874E-03	1.158E-04	5.403E-03	3.345E-03	1.162E-03	0.000E+00
370506	3758088	0.07927	0	0	1.8	1-HR	GASOLINE	1ST	96092907	3.598E-04	1.684E-05	1.720E-03	4.254E-05	2.772E-03	1.117E-04	5.211E-03	3.226E-03	1.121E-03	0.000E+00
370886	3758089	0.06887	0	0	1.8	1-HR	GASOLINE	1ST	96100807	3.118E-04	1.459E-05	1.491E-03	3.686E-05	2.402E-03	9.677E-05	4.516E-03	2.796E-03	9.715E-04	0.000E+00
370885	3757751	0.07471	0	0	1.8	1-HR	GASOLINE	1ST	96100807	3.391E-04	1.587E-05	1.621E-03	4.009E-05	2.612E-03	1.052E-04	4.911E-03	3.040E-03	1.057E-03	0.000E+00
370907	3757702	0.07253	0	0	1.8	1-HR	GASOLINE	1ST	96100807	3.292E-04	1.541E-05	1.574E-03	3.892E-05	2.536E-03	1.022E-04	4.768E-03	2.951E-03	1.026E-03	0.000E+00
370945	3757670	0.06923	0	0	1.8	1-HR	GASOLINE	1ST	96100807	3.142E-04	1.470E-05	1.502E-03	3.715E-05	2.421E-03	9.751E-05	4.551E-03	2.817E-03	9.790E-04	0.000E+00
371046	3757668	0.06258	0	0	1.8	1-HR	GASOLINE	1ST	96100807	2.840E-04	1.329E-05	1.358E-03	3.358E-05	2.188E-03	8.815E-05	4.114E-03	2.546E-03	8.850E-04	0.000E+00
371046	3757585	0.06337	0	0	1.8	1-HR	GASOLINE	1ST	96022008	2.876E-04	1.346E-05	1.375E-03	3.400E-05	2.216E-03	8.926E-05	4.165E-03	2.579E-03	8.961E-04	0.000E+00
371122	3757584	0.06114	0	0	1.8	1-HR	GASOLINE	1ST	96022008	2.775E-04	1.299E-05	1.327E-03	3.281E-05	2.138E-03	8.612E-05	4.019E-03	2.488E-03	8.646E-04	0.000E+00
371193	3757720	0.0562	0	0	1.8	1-HR	GASOLINE	1ST	96022008	2.551E-04	1.194E-05	1.219E-03	3.016E-05	1.965E-03	7.916E-05	3.694E-03	2.287E-03	7.947E-04	0.000E+00
371254	3757762	0.05386	0	0	1.8	1-HR	GASOLINE	1ST	96100807	2.445E-04	1.144E-05	1.169E-03	2.890E-05	1.883E-03	7.586E-05	3.540E-03	2.192E-03	7.617E-04	0.000E+00
371264	3757783	0.05401	0	0	1.8	1-HR	GASOLINE	1ST	96100807	2.451E-04	1.147E-05	1.172E-03	2.898E-05	1.889E-03	7.608E-05	3.550E-03	2.198E-03	7.638E-04	0.000E+00
371372	3757782	0.0512	0	0	1.8	1-HR	GASOLINE	1ST	96022008	2.324E-04	1.087E-05	1.111E-03	2.747E-05	1.790E-03	7.212E-05	3.366E-03	2.083E-03	7.240E-04	0.000E+00
371399	3757806	0.0502	0	0	1.8	1-HR	GASOLINE	1ST	96022008	2.278E-04	1.066E-05	1.098E-03	2.694E-05	1.755E-03	7.071E-05	3.300E-03	2.043E-03	7.099E-04	0.000E+00
371798	3758080	0.03979	0	0	1.8	1-HR	GASOLINE	1ST	96100807	1.806E-04	8.451E-06	8.634E-04	2.135E-05	1.391E-03	5.605E-05	2.615E-03	1.619E-03	5.627E-04	0.000E+00
371908	3757934	0.04031	0	0	1.8	1-HR	GASOLINE	1ST	96022008	1.830E-04	8.562E-06	8.747E-04	2.163E-05	1.410E-03	5.678E-05	2.650E-03	1.640E-03	5.700E-04	0.000E+00
371964	3757922	0.03957	0	0	1.8	1-HR	GASOLINE	1ST	96022008	1.796E-04	8.405E-06	8.586E-04	2.123E-05	1.384E-03	5.574E-05	2.601E-03	1.610E-03	5.596E-04	0.000E+00
371970	3757842	0.03981	0	0	1.8	1-HR	GASOLINE	1ST	96022008	1.807E-04	8.456E-06	8.638E-04	2.136E-05	1.392E-03	5.607E-05	2.617E-03	1.620E-03	5.630E-04	0.000E+00
372023	3757843	0.03891	0	0	1.8	1-HR	GASOLINE	1ST	96022008	1.766E-04	8.265E-06	8.443E-04	2.088E-05	1.361E-03	5.481E-05	2.558E-03	1.583E-03	5.502E-04	0.000E+00
372020	3757552	0.04031	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.830E-04	8.562E-06	8.747E-04	2.163E-05	1.410E-03	5.678E-05	2.650E-03	1.640E-03	5.700E-04	0.000E+00
372002	3757140	0.05143	0	0	1.8	1-HR	GASOLINE	1ST	96021407	2.334E-04	1.092E-05	1.116E-03	2.760E-05	1.798E-03	7.244E-05	3.381E-03	2.093E-03	7.273E-04	0.000E+00
371514	3757136	0.06266	0	0	1.8	1-HR	GASOLINE	1ST	96021407	2.844E-04	1.331E-05	1.360E-03	3.362E-05	2.191E-03	8.826E-05	4.119E-03	2.550E-03	8.861E-04	0.000E+00
371035	3757133	0.07756	0	0	1.8	1-HR	GASOLINE	1ST	96021407	3.520E-04	1.647E-05	1.683E-03	4.162E-05	2.712E-03	1.092E-04	5.098E-03	3.156E-03	1.097E-03	0.000E+00
371034	3757085	0.07967	0	0	1.8	1-HR	GASOLINE	1ST	96021407	3.616E-04	1.692E-05	1.729E-03	4.275E-05	2.786E-03	1.122E-04	5.237E-03	3.242E-03	1.127E-03	0.000E+00
370764	3757087	0.09162	0	0	1.8	1-HR	GASOLINE	1ST	96021407	4.158E-04	1.946E-05	1.988E-03	4.916E-05	3.204E-03	1.291E-04	6.022E-03	3.728E-03	1.296E-03	0.000E+00
370754	3756818	0.09733	0	0	1.8	1-HR	GASOLINE	1ST	96021407	4.417E-04	2.067E-05	2.112E-03	5.223E-05	3.403E-03	1.371E-04	6.398E-03	3.961E-03	1.376E-03	0.000E+00
371031	3756807	0.08141	0	0	1.8	1-HR	GASOLINE	1ST	96021407	3.695E-04	1.729E-05	1.766E-03	4.368E-05	2.847E-03	1.147E-04	5.351E-03	3.313E-03	1.151E-03	0.000E+00
371033	3756780	0.08054	0	0	1.8	1-HR	GASOLINE	1ST	96021407	3.655E-04	1.711E-05	1.748E-03	4.322E-05	2.816E-03	1.134E-04	5.294E-03	3.277E-03	1.139E-03	0.000E+00
371483	3756770	0.06192	0	0	1.8	1-HR	GASOLINE	1ST	96021407	2.810E-04	1.315E-05	1.344E-03	3.323E-05	2.165E-03	8.722E-05	4.070E-03	2.520E-03	8.756E-04	0.000E+00
371817	3756763	0.05193	0	0	1.8	1-HR	GASOLINE	1ST	96021407	2.357E-04	1.103E-05	1.127E-03	2.787E-05	1.816E-03	7.315E-05	3.413E-03	2.113E-03	7.344E-04	0.000E+00
372274	3756753	0.04165	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.890E-04	8.846E-06	9.037E-04	2.235E-05	1.456E-03	5.867E-05	2.738E-03	1.695E-03	5.890E-04	0.000E+00
372713	3756743	0.03431	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.557E-04	7.287E-06	7.445E-04	1.841E-05	1.200E-03	4.833E-05	2.255E-03	1.396E-03	4.852E-04	0.000E+00
372703	3756553	0.02943	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.336E-04	6.251E-06	6.386E-04	1.579E-05	1.029E-03	4.145E-05	1.935E-03	1.198E-03	4.162E-04	0.000E+00
372819	3756549	0.02798	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.270E-04	5.943E-06	6.071E-04	1.501E-05	9.784E-04	3.941E-05	1.839E-03	1.139E-03	3.957E-04	0.000E+00
372814	3756455	0.02539	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.152E-04	5.393E-06	5.509E-04	1.362E-05	8.878E-04	3.576E-05	1.669E-03	1.033E-03	3.591E-04	0.000E+00
372797	3756368	0.02303	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.045E-04	4.892E-06	4.997E-04	1.236E-05	8.053E-04	3.244E-05	1.514E-03	9.371E-04	3.257E-04	0.000E+00
372705	3756372	0.02398	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.088E-04	5.093E-06	5.203E-04	1.287E-05	8.385E-04	3.378E-05	1.576E-03	9.758E-04	3.391E-04	0.000E+00
372706	3756327	0.02261	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.026E-04	4.802E-06	4.906E-04	1.213E-05	7.906E-04	3.185E-05	1.486E-03	9.200E-04	3.197E-04	0.000E+00
372927	3756319	0.02059	0	0	1.8	1-HR	GASOLINE	1ST	96021407	9.345E-05	4.373E-06	4.468E-04	1.105E-05	7.200E-04	2.900E-05	1.353E-03	8.378E-04	2.912E-04	0.000E+00
372926	3756245	0.01858	0	0	1.8	1-HR	GASOLINE	1ST	96021407	8.433E-05	3.946E-06	4.032E-04	9.970E-06	6.497E-04	2.617E-05	1.221E-03	7.560E-04	2.627E-04	0.000E+00

**Table B-2**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs , Gasoline, Unmitigated**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC                   DFault ELEV FLGPOL
- \*     PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE
- \*     FOR A TOTAL OF 120 RECEPTORS.
- \*     FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

*	X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	methyl alcohol	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylylene, m-	xylylene, o-	xylylene, p-
											(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
373457	3756236	0.01531	0	0	1.8	1-HR	GASOLINE	1ST	96021407	6.949E-05	3.252E-06	3.322E-04	8.215E-06	5.354E-04	2.156E-05	1.006E-03	6.230E-04	2.165E-04	0.000E+00	
373448	3755560	0.01042	0	0	1.8	1-HR	GASOLINE	1ST	96052101	4.729E-05	2.213E-06	2.261E-04	5.591E-06	3.644E-04	1.468E-05	6.849E-04	4.240E-04	1.474E-04	0.000E+00	
373222	3755569	0.01096	0	0	1.8	1-HR	GASOLINE	1ST	96052101	4.974E-05	2.328E-06	2.378E-04	5.881E-06	3.832E-04	1.544E-05	7.204E-04	4.460E-04	1.550E-04	0.000E+00	
373219	3755705	0.01139	0	0	1.8	1-HR	GASOLINE	1ST	96052101	5.170E-05	2.419E-06	2.471E-04	6.112E-06	3.983E-04	1.604E-05	7.487E-04	4.635E-04	1.611E-04	0.000E+00	
373135	3755704	0.01163	0	0	1.8	1-HR	GASOLINE	1ST	96052101	5.278E-05	2.470E-06	2.524E-04	6.241E-06	4.067E-04	1.638E-05	7.645E-04	4.732E-04	1.645E-04	0.000E+00	
373131	3755567	0.01116	0	0	1.8	1-HR	GASOLINE	1ST	96052101	5.065E-05	2.370E-06	2.422E-04	5.988E-06	3.902E-04	1.572E-05	7.336E-04	4.541E-04	1.578E-04	0.000E+00	
373054	3755563	0.01131	0	0	1.8	1-HR	GASOLINE	1ST	96052101	5.133E-05	2.402E-06	2.454E-04	6.069E-06	3.955E-04	1.593E-05	7.434E-04	4.602E-04	1.599E-04	0.000E+00	
373046	3755174	0.01381	0	0	1.8	1-HR	GASOLINE	1ST	96010208	6.268E-05	2.933E-06	2.997E-04	7.410E-06	4.829E-04	1.945E-05	9.078E-04	5.619E-04	1.953E-04	0.000E+00	
372725	3755177	0.01606	0	0	1.8	1-HR	GASOLINE	1ST	96010208	7.289E-05	3.411E-06	3.485E-04	8.618E-06	5.616E-04	2.262E-05	1.056E-03	6.535E-04	2.271E-04	0.000E+00	
372624	3755182	0.0168	0	0	1.8	1-HR	GASOLINE	1ST	96010208	7.625E-05	3.568E-06	3.645E-04	9.015E-06	5.875E-04	2.366E-05	1.104E-03	6.836E-04	2.376E-04	0.000E+00	
372238	3755186	0.01992	0	0	1.8	1-HR	GASOLINE	1ST	96010208	9.041E-05	4.231E-06	4.322E-04	1.069E-05	6.966E-04	2.806E-05	1.309E-03	8.106E-04	2.817E-04	0.000E+00	
371843	3755189	0.02327	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.056E-04	4.943E-06	5.049E-04	1.249E-05	8.137E-04	3.278E-05	1.530E-03	9.469E-04	3.291E-04	0.000E+00	
371463	3755192	0.02632	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.195E-04	5.590E-06	5.711E-04	1.412E-05	9.204E-04	3.707E-05	1.730E-03	1.071E-03	3.722E-04	0.000E+00	
371049	3755196	0.02868	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.302E-04	6.092E-06	6.223E-04	1.539E-05	1.003E-03	4.040E-05	1.885E-03	1.167E-03	4.056E-04	0.000E+00	
371056	3755349	0.03168	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.438E-04	6.729E-06	6.874E-04	1.700E-05	1.108E-03	4.462E-05	2.082E-03	1.289E-03	4.480E-04	0.000E+00	
371043	3755384	0.03241	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.471E-04	6.884E-06	7.032E-04	1.739E-05	1.133E-03	4.565E-05	2.130E-03	1.319E-03	4.583E-04	0.000E+00	
371042	3755556	0.03464	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.572E-04	7.358E-06	7.516E-04	1.859E-05	1.211E-03	4.879E-05	2.277E-03	1.410E-03	4.899E-04	0.000E+00	
370996	3755560	0.03543	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.608E-04	7.525E-06	7.688E-04	1.901E-05	1.239E-03	4.991E-05	2.329E-03	1.442E-03	5.010E-04	0.000E+00	
371001	3755419	0.03342	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.517E-04	7.098E-06	7.252E-04	1.793E-05	1.169E-03	4.707E-05	2.197E-03	1.360E-03	4.726E-04	0.000E+00	
370801	3755276	0.03146	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.428E-04	6.682E-06	6.826E-04	1.688E-05	1.100E-03	4.431E-05	2.068E-03	1.280E-03	4.449E-04	0.000E+00	
370667	3755262	0.03119	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.416E-04	6.625E-06	6.768E-04	1.674E-05	1.091E-03	4.393E-05	2.050E-03	1.269E-03	4.411E-04	0.000E+00	
370380	3755263	0.03023	0	0	1.8	1-HR	GASOLINE	1ST	96010208	1.372E-04	6.421E-06	6.559E-04	1.622E-05	1.057E-03	4.258E-05	1.987E-03	1.230E-03	4.275E-04	0.000E+00	
370076	3755265	0.04194	0	0	1.8	1-HR	GASOLINE	1ST	96100707	1.904E-04	8.908E-06	9.100E-04	2.250E-05	1.467E-03	5.907E-05	2.757E-03	1.707E-03	5.931E-04	0.000E+00	
369787	3755267	0.05383	0	0	1.8	1-HR	GASOLINE	1ST	96100707	2.443E-04	1.143E-05	1.168E-03	2.888E-05	1.882E-03	7.582E-05	3.538E-03	2.190E-03	7.612E-04	0.000E+00	
369498	3755268	0.05656	0	0	1.8	1-HR	GASOLINE	1ST	96100707	2.567E-04	1.201E-05	1.227E-03	3.035E-05	1.978E-03	7.967E-05	3.718E-03	2.302E-03	7.998E-04	0.000E+00	
369194	3755270	0.08288	0	0	1.8	1-HR	GASOLINE	1ST	96030107	3.762E-04	1.760E-05	1.798E-03	4.447E-05	2.898E-03	1.167E-04	5.448E-03	3.373E-03	1.172E-03	0.000E+00	
368889	3755272	0.13003	0	0	1.8	1-HR	GASOLINE	1ST	96011009	5.902E-04	2.762E-05	2.821E-03	6.977E-05	4.547E-03	1.832E-04	8.547E-03	5.291E-03	1.839E-03	0.000E+00	
368569	3755273	0.18669	0	0	1.8	1-HR	GASOLINE	1ST	96012607	8.473E-04	3.965E-05	4.051E-03	1.002E-04	6.528E-03	2.630E-04	1.227E-02	7.597E-03	2.640E-03	0.000E+00	
368275	3755275	0.17486	0	0	1.8	1-HR	GASOLINE	1ST	96012607	7.936E-04	3.714E-05	3.794E-03	9.383E-05	6.114E-03	2.463E-04	1.149E-02	7.115E-03	2.473E-03	0.000E+00	
367936	3755213	0.1429	0	0	1.8	1-HR	GASOLINE	1ST	96020707	6.486E-04	3.035E-05	3.101E-03	7.668E-05	4.997E-03	2.013E-04	9.393E-03	5.815E-03	2.021E-03	0.000E+00	





Table B-3

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET_ID	DATE(CONC)	Diesel TOG/VOC Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol	methyl alcohol
												(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
373457	3756236	1.03645	0	0	1.8	1-HR	DIESEL	1ST	96021407		1.05318	7.744E-02	0.000E+00	2.107E-02	2.001E-03	3.212E-03	0.000E+00	1.550E-01	1.653E-03	0.000E+00	3.160E-04
373448	3755560	0.70492	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.71630	5.267E-02	0.000E+00	1.433E-02	1.361E-03	2.185E-03	0.000E+00	1.054E-01	1.125E-03	0.000E+00	2.149E-04
373222	3755569	0.74134	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.75331	5.539E-02	0.000E+00	1.507E-02	1.431E-03	2.298E-03	0.000E+00	1.108E-01	1.183E-03	0.000E+00	2.260E-04
373219	3755705	0.77061	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.78305	5.758E-02	0.000E+00	1.567E-02	1.488E-03	2.388E-03	0.000E+00	1.152E-01	1.229E-03	0.000E+00	2.349E-04
373135	3755704	0.78699	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.79970	5.880E-02	0.000E+00	1.600E-02	1.519E-03	2.439E-03	0.000E+00	1.177E-01	1.256E-03	0.000E+00	2.399E-04
373131	3755567	0.75482	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.76701	5.640E-02	0.000E+00	1.535E-02	1.457E-03	2.339E-03	0.000E+00	1.129E-01	1.204E-03	0.000E+00	2.301E-04
373054	3755563	0.76542	0	0	1.8	1-HR	DIESEL	1ST	96052101		0.77778	5.719E-02	0.000E+00	1.556E-02	1.478E-03	2.372E-03	0.000E+00	1.144E-01	1.221E-03	0.000E+00	2.333E-04
373046	3755174	0.93483	0	0	1.8	1-HR	DIESEL	1ST	96010208		0.94992	6.985E-02	0.000E+00	1.901E-02	1.805E-03	2.897E-03	0.000E+00	1.398E-01	1.491E-03	0.000E+00	2.850E-04
372725	3755177	1.08675	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.10429	8.120E-02	0.000E+00	2.210E-02	2.098E-03	3.368E-03	0.000E+00	1.625E-01	1.734E-03	0.000E+00	3.313E-04
372624	3755182	1.13716	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.15552	8.497E-02	0.000E+00	2.312E-02	2.195E-03	3.524E-03	0.000E+00	1.700E-01	1.814E-03	0.000E+00	3.467E-04
372238	3755186	1.34802	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.36978	1.007E-01	0.000E+00	2.741E-02	2.603E-03	4.178E-03	0.000E+00	2.015E-01	2.151E-03	0.000E+00	4.109E-04
371843	3755189	1.5747	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.60012	1.177E-01	0.000E+00	3.202E-02	3.040E-03	4.880E-03	0.000E+00	2.354E-01	2.512E-03	0.000E+00	4.800E-04
371463	3755192	1.78093	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.80968	1.331E-01	0.000E+00	3.621E-02	3.438E-03	5.520E-03	0.000E+00	2.663E-01	2.841E-03	0.000E+00	5.429E-04
371049	3755196	1.94057	0	0	1.8	1-HR	DIESEL	1ST	96010208		1.97190	1.450E-01	0.000E+00	3.946E-02	3.747E-03	6.014E-03	0.000E+00	2.901E-01	3.096E-03	0.000E+00	5.916E-04
371056	3755349	2.1438	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.17841	1.602E-01	0.000E+00	4.359E-02	4.139E-03	6.644E-03	0.000E+00	3.205E-01	3.420E-03	0.000E+00	6.535E-04
371043	3755384	2.19292	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.22832	1.638E-01	0.000E+00	4.459E-02	4.234E-03	6.796E-03	0.000E+00	3.279E-01	3.498E-03	0.000E+00	6.685E-04
371042	3755556	2.3444	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.38225	1.752E-01	0.000E+00	4.767E-02	4.526E-03	7.266E-03	0.000E+00	3.505E-01	3.740E-03	0.000E+00	7.147E-04
370996	3755560	2.39748	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.43619	1.791E-01	0.000E+00	4.875E-02	4.629E-03	7.430E-03	0.000E+00	3.585E-01	3.825E-03	0.000E+00	7.309E-04
371001	3755419	2.26178	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.29829	1.690E-01	0.000E+00	4.599E-02	4.367E-03	7.010E-03	0.000E+00	3.382E-01	3.608E-03	0.000E+00	6.895E-04
370801	3755276	2.12861	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.16298	1.590E-01	0.000E+00	4.328E-02	4.110E-03	6.597E-03	0.000E+00	3.183E-01	3.396E-03	0.000E+00	6.489E-04
370667	3755262	2.11011	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.14418	1.577E-01	0.000E+00	4.290E-02	4.074E-03	6.540E-03	0.000E+00	3.155E-01	3.366E-03	0.000E+00	6.433E-04
370380	3755263	2.04529	0	0	1.8	1-HR	DIESEL	1ST	96010208		2.07831	1.528E-01	0.000E+00	4.159E-02	3.949E-03	6.339E-03	0.000E+00	3.058E-01	3.263E-03	0.000E+00	6.235E-04
370076	3755265	2.83975	0	0	1.8	1-HR	DIESEL	1ST	96100707		2.88560	2.122E-01	0.000E+00	5.774E-02	5.483E-03	8.801E-03	0.000E+00	4.246E-01	4.530E-03	0.000E+00	8.657E-04
369787	3755267	3.64332	0	0	1.8	1-HR	DIESEL	1ST	96100707		3.70214	2.722E-01	0.000E+00	7.408E-02	7.034E-03	1.129E-02	0.000E+00	5.447E-01	5.812E-03	0.000E+00	1.111E-03
369498	3755268	3.82525	0	0	1.8	1-HR	DIESEL	1ST	96100707		3.88701	2.858E-01	0.000E+00	7.778E-02	7.385E-03	1.186E-02	0.000E+00	5.719E-01	6.103E-03	0.000E+00	1.166E-03
369194	3755270	5.61123	0	0	1.8	1-HR	DIESEL	1ST	96030107		5.70182	4.193E-01	0.000E+00	1.141E-01	1.083E-02	1.739E-02	0.000E+00	8.390E-01	8.952E-03	0.000E+00	1.711E-03
368889	3755272	8.80098	0	0	1.8	1-HR	DIESEL	1ST	96011009		8.94307	6.576E-01	0.000E+00	1.790E-01	1.699E-02	2.728E-02	0.000E+00	1.316E+00	1.404E-02	0.000E+00	2.683E-03
368569	3755273	12.63701	0	0	1.8	1-HR	DIESEL	1ST	96012607		12.84103	9.442E-01	0.000E+00	2.569E-01	2.440E-02	3.917E-02	0.000E+00	1.889E+00	2.016E-02	0.000E+00	3.852E-03
368275	3755275	11.82104	0	0	1.8	1-HR	DIESEL	1ST	96012607		12.01188	8.832E-01	0.000E+00	2.404E-01	2.282E-02	3.664E-02	0.000E+00	1.767E+00	1.886E-02	0.000E+00	3.604E-03
367936	3755213	9.66374	0	0	1.8	1-HR	DIESEL	1ST	96020707		9.81975	7.220E-01	0.000E+00	1.965E-01	1.866E-02	2.995E-02	0.000E+00	1.445E+00	1.542E-02	0.000E+00	2.946E-03

Table B-3

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DEFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET.ID	DATE(CONC)	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylylene, m-	xylylene, o-	xylylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
367484	3755199	7.82623	0	0	1.8	1-HR	DIESEL	1ST	96020707	1.175E-01	0.000E+00	6.760E-03	2.065E-01	4.612E-03	1.171E-01	4.859E-02	2.664E-02	7.555E-03
367301	3755623	9.37045	0	0	1.8	1-HR	DIESEL	1ST	96011508	1.406E-01	0.000E+00	8.093E-03	2.473E-01	5.523E-03	1.403E-01	5.818E-02	3.190E-02	9.046E-03
367114	3756056	10.3813	0	0	1.8	1-HR	DIESEL	1ST	96020207	1.558E-01	0.000E+00	8.967E-03	2.740E-01	6.118E-03	1.554E-01	6.445E-02	3.534E-02	1.002E-02
366985	3756358	7.77943	0	0	1.8	1-HR	DIESEL	1ST	96020407	1.168E-01	0.000E+00	6.719E-03	2.053E-01	4.585E-03	1.164E-01	4.830E-02	2.648E-02	7.510E-03
366853	3756663	6.20396	0	0	1.8	1-HR	DIESEL	1ST	96012907	9.311E-02	0.000E+00	5.359E-03	1.637E-01	3.656E-03	9.286E-02	3.852E-02	2.112E-02	5.989E-03
366902	3756692	6.22485	0	0	1.8	1-HR	DIESEL	1ST	96012907	9.343E-02	0.000E+00	5.377E-03	1.643E-01	3.669E-03	9.317E-02	3.865E-02	2.119E-02	6.009E-03
366876	3756760	5.96121	0	0	1.8	1-HR	DIESEL	1ST	96012907	8.947E-02	0.000E+00	5.149E-03	1.573E-01	3.513E-03	8.923E-02	3.701E-02	2.029E-02	5.755E-03
366813	3756739	5.8958	0	0	1.8	1-HR	DIESEL	1ST	96012907	8.849E-02	0.000E+00	5.092E-03	1.556E-01	3.475E-03	8.825E-02	3.660E-02	2.007E-02	5.691E-03
366677	3757025	4.58048	0	0	1.8	1-HR	DIESEL	1ST	96012907	6.875E-02	0.000E+00	3.956E-03	1.209E-01	2.700E-03	6.856E-02	2.844E-02	1.559E-02	4.422E-03
366536	3757322	3.90703	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.864E-02	0.000E+00	3.375E-03	1.031E-01	2.303E-03	5.848E-02	2.426E-02	1.330E-02	3.772E-03
366437	3757531	3.48992	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.238E-02	0.000E+00	3.014E-03	9.210E-02	2.057E-03	5.224E-02	2.167E-02	1.188E-02	3.369E-03
366487	3757537	3.51606	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.277E-02	0.000E+00	3.037E-03	9.279E-02	2.072E-03	5.263E-02	2.183E-02	1.197E-02	3.394E-03
366624	3757468	3.77871	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.671E-02	0.000E+00	3.264E-03	9.972E-02	2.227E-03	5.656E-02	2.346E-02	1.286E-02	3.648E-03
366644	3757531	3.6544	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.485E-02	0.000E+00	3.156E-03	9.644E-02	2.154E-03	5.470E-02	2.269E-02	1.244E-02	3.528E-03
366777	3757520	3.79113	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.690E-02	0.000E+00	3.274E-03	1.000E-01	2.234E-03	5.674E-02	2.354E-02	1.291E-02	3.660E-03
366999	3757642	3.47647	0	0	1.8	1-HR	DIESEL	1ST	96020207	5.218E-02	0.000E+00	3.003E-03	9.174E-02	2.049E-03	5.204E-02	2.158E-02	1.183E-02	3.356E-03
367174	3757740	3.00346	0	0	1.8	1-HR	DIESEL	1ST	96020207	4.508E-02	0.000E+00	2.594E-03	7.926E-02	1.770E-03	4.496E-02	1.865E-02	1.022E-02	2.899E-03
367291	3757694	3.19574	0	0	1.8	1-HR	DIESEL	1ST	96020207	4.796E-02	0.000E+00	2.760E-03	8.433E-02	1.883E-03	4.783E-02	1.984E-02	1.088E-02	3.085E-03
367413	3757695	3.57945	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.372E-02	0.000E+00	3.092E-03	9.446E-02	2.110E-03	5.358E-02	2.222E-02	1.218E-02	3.455E-03
367410	3757736	3.65289	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.482E-02	0.000E+00	3.155E-03	9.640E-02	2.153E-03	5.468E-02	2.268E-02	1.243E-02	3.526E-03
367518	3757796	4.19318	0	0	1.8	1-HR	DIESEL	1ST	96020108	6.293E-02	0.000E+00	3.622E-03	1.107E-01	2.471E-03	6.276E-02	2.603E-02	1.427E-02	4.048E-03
367539	3757802	4.29088	0	0	1.8	1-HR	DIESEL	1ST	96020108	6.440E-02	0.000E+00	3.706E-03	1.132E-01	2.529E-03	6.423E-02	2.664E-02	1.461E-02	4.142E-03
367609	3757677	4.39991	0	0	1.8	1-HR	DIESEL	1ST	96020108	6.604E-02	0.000E+00	3.800E-03	1.161E-01	2.593E-03	6.586E-02	2.732E-02	1.498E-02	4.247E-03
367769	3757644	5.18408	0	0	1.8	1-HR	DIESEL	1ST	96020108	7.780E-02	0.000E+00	4.478E-03	1.368E-01	3.055E-03	7.759E-02	3.219E-02	1.765E-02	5.004E-03
367775	3757719	5.29741	0	0	1.8	1-HR	DIESEL	1ST	96020108	7.951E-02	0.000E+00	4.575E-03	1.398E-01	3.122E-03	7.929E-02	3.289E-02	1.803E-02	5.114E-03
367809	3757835	5.45216	0	0	1.8	1-HR	DIESEL	1ST	96020108	8.183E-02	0.000E+00	4.709E-03	1.439E-01	3.213E-03	8.161E-02	3.385E-02	1.856E-02	5.263E-03
367807	3757936	5.32037	0	0	1.8	1-HR	DIESEL	1ST	96020108	7.985E-02	0.000E+00	4.595E-03	1.404E-01	3.136E-03	7.963E-02	3.303E-02	1.811E-02	5.136E-03
367775	3757959	5.18934	0	0	1.8	1-HR	DIESEL	1ST	96020108	7.788E-02	0.000E+00	4.482E-03	1.369E-01	3.058E-03	7.767E-02	3.222E-02	1.766E-02	5.009E-03
367798	3758011	5.15265	0	0	1.8	1-HR	DIESEL	1ST	96020108	7.733E-02	0.000E+00	4.450E-03	1.360E-01	3.037E-03	7.712E-02	3.199E-02	1.754E-02	4.974E-03
367914	3757962	5.52764	0	0	1.8	1-HR	DIESEL	1ST	96020108	8.296E-02	0.000E+00	4.774E-03	1.459E-01	3.258E-03	8.274E-02	3.432E-02	1.882E-02	5.336E-03
367905	3757930	5.59563	0	0	1.8	1-HR	DIESEL	1ST	96020108	8.398E-02	0.000E+00	4.833E-03	1.477E-01	3.298E-03	8.375E-02	3.474E-02	1.905E-02	5.402E-03
368109	3757840	6.35313	0	0	1.8	1-HR	DIESEL	1ST	96020108	9.535E-02	0.000E+00	5.487E-03	1.677E-01	3.744E-03	9.509E-02	3.944E-02	2.163E-02	6.133E-03
368233	3757790	6.78851	0	0	1.8	1-HR	DIESEL	1ST	96020108	1.019E-01	0.000E+00	5.863E-03	1.791E-01	4.001E-03	1.016E-01	4.215E-02	2.311E-02	6.553E-03
368309	3757762	7.02225	0	0	1.8	1-HR	DIESEL	1ST	96020108	1.054E-01	0.000E+00	6.065E-03	1.853E-01	4.139E-03	1.051E-01	4.360E-02	2.390E-02	6.779E-03
368603	3757765	6.42872	0	0	1.8	1-HR	DIESEL	1ST	96032207	9.649E-02	0.000E+00	5.553E-03	1.696E-01	3.789E-03	9.622E-02	3.991E-02	2.188E-02	6.206E-03
368604	3757719	6.58696	0	0	1.8	1-HR	DIESEL	1ST	96020108	9.886E-02	0.000E+00	5.689E-03	1.738E-01	3.882E-03	9.859E-02	4.090E-02	2.242E-02	6.359E-03
368770	3757799	8.71	0	0	1.8	1-HR	DIESEL	1ST	96032207	1.307E-01	0.000E+00	7.523E-03	2.299E-01	5.133E-03	1.304E-01	5.408E-02	2.965E-02	8.408E-03
369017	3757954	8.6601	0	0	1.8	1-HR	DIESEL	1ST	96032207	1.300E-01	0.000E+00	7.480E-03	2.285E-01	5.104E-03	1.296E-01	5.377E-02	2.948E-02	8.360E-03
369080	3757864	9.2175	0	0	1.8	1-HR	DIESEL	1ST	96032207	1.383E-01	0.000E+00	7.961E-03	2.432E-01	5.432E-03	1.380E-01	5.723E-02	3.138E-02	8.988E-03
369224	3757952	7.07689	0	0	1.8	1-HR	DIESEL	1ST	96032207	1.062E-01	0.000E+00	6.112E-03	1.868E-01	4.171E-03	1.059E-01	4.394E-02	2.409E-02	6.832E-03
369409	3757730	5.83091	0	0	1.8	1-HR	DIESEL	1ST	96032207	8.751E-02	0.000E+00	5.036E-03	1.539E-01	3.437E-03	8.728E-02	3.620E-02	1.985E-02	5.629E-03
369454	3757776	4.90022	0	0	1.8	1-HR	DIESEL	1ST	96040807	7.354E-02	0.000E+00	4.232E-03	1.293E-01	2.888E-03	7.335E-02	3.042E-02	1.668E-02	4.730E-03
369265	3757997	6.27358	0	0	1.8	1-HR	DIESEL	1ST	96032207	9.416E-02	0.000E+00	5.419E-03	1.656E-01	3.697E-03	9.390E-02	3.895E-02	2.136E-02	6.066E-03
369452	3758128	3.45285	0	0	1.8	1-HR	DIESEL	1ST	96032207	5.182E-02	0.000E+00	2.982E-03	9.112E-02	2.035E-03	5.168E-02	2.144E-02	1.175E-02	3.333E-03
369460	3758394	2.771	0	0	1.8	1-HR	DIESEL	1ST	96032207	4.159E-02	0.000E+00	2.393E-03	7.312E-02	1.633E-03	4.148E-02	1.720E-02	9.433E-03	2.675E-03



Table B-3

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DEFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET.ID	DATE(CONC)	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylene, m-	xylene, o-	xylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
369853	3758394	2.67123	0	0	1.8	1-HR	DIESEL	1ST	96040807	4.009E-02	0.000E+00	2.307E-03	7.049E-02	1.574E-03	3.998E-02	1.658E-02	9.093E-03	2.579E-03
369850	3758078	3.52726	0	0	1.8	1-HR	DIESEL	1ST	96092907	5.294E-02	0.000E+00	3.047E-03	9.308E-02	2.079E-03	5.280E-02	2.190E-02	1.201E-02	3.405E-03
370299	3758078	5.42799	0	0	1.8	1-HR	DIESEL	1ST	96092907	8.147E-02	0.000E+00	4.688E-03	1.432E-01	3.199E-03	8.125E-02	3.370E-02	1.848E-02	5.240E-03
370298	3757963	6.12613	0	0	1.8	1-HR	DIESEL	1ST	96092907	9.194E-02	0.000E+00	5.291E-03	1.617E-01	3.611E-03	9.169E-02	3.803E-02	2.085E-02	5.914E-03
370382	3757966	6.02559	0	0	1.8	1-HR	DIESEL	1ST	96092907	9.043E-02	0.000E+00	5.204E-03	1.590E-01	3.551E-03	9.019E-02	3.741E-02	2.051E-02	5.817E-03
370510	3758027	5.5624	0	0	1.8	1-HR	DIESEL	1ST	96092907	8.348E-02	0.000E+00	4.804E-03	1.468E-01	3.278E-03	8.326E-02	3.453E-02	1.893E-02	5.370E-03
370506	3758088	5.36307	0	0	1.8	1-HR	DIESEL	1ST	96092907	8.049E-02	0.000E+00	4.632E-03	1.415E-01	3.161E-03	8.027E-02	3.330E-02	1.826E-02	5.177E-03
370886	3758089	4.64851	0	0	1.8	1-HR	DIESEL	1ST	96100807	6.977E-02	0.000E+00	4.015E-03	1.227E-01	2.740E-03	6.958E-02	2.886E-02	1.582E-02	4.487E-03
370885	3757751	5.05727	0	0	1.8	1-HR	DIESEL	1ST	96100807	7.590E-02	0.000E+00	4.368E-03	1.335E-01	2.981E-03	7.570E-02	3.140E-02	1.722E-02	4.882E-03
370907	3757702	4.90988	0	0	1.8	1-HR	DIESEL	1ST	96100807	7.369E-02	0.000E+00	4.241E-03	1.296E-01	2.894E-03	7.349E-02	3.048E-02	1.671E-02	4.740E-03
370945	3757670	4.68691	0	0	1.8	1-HR	DIESEL	1ST	96100807	7.034E-02	0.000E+00	4.048E-03	1.237E-01	2.762E-03	7.015E-02	2.910E-02	1.595E-02	4.524E-03
371046	3757668	4.23692	0	0	1.8	1-HR	DIESEL	1ST	96100807	6.359E-02	0.000E+00	3.660E-03	1.118E-01	2.497E-03	6.342E-02	2.631E-02	1.442E-02	4.090E-03
371046	3757585	4.28838	0	0	1.8	1-HR	DIESEL	1ST	96022008	6.436E-02	0.000E+00	3.704E-03	1.132E-01	2.527E-03	6.419E-02	2.663E-02	1.460E-02	4.140E-03
371122	3757584	4.1374	0	0	1.8	1-HR	DIESEL	1ST	96022008	6.210E-02	0.000E+00	3.574E-03	1.092E-01	2.438E-03	6.193E-02	2.569E-02	1.408E-02	3.994E-03
371193	3757720	3.80297	0	0	1.8	1-HR	DIESEL	1ST	96022008	5.708E-02	0.000E+00	3.285E-03	1.004E-01	2.241E-03	5.692E-02	2.361E-02	1.295E-02	3.671E-03
371254	3757762	3.64666	0	0	1.8	1-HR	DIESEL	1ST	96100807	5.473E-02	0.000E+00	3.150E-03	9.623E-02	2.149E-03	5.458E-02	2.264E-02	1.241E-02	3.520E-03
371264	3757783	3.65683	0	0	1.8	1-HR	DIESEL	1ST	96100807	5.488E-02	0.000E+00	3.158E-03	9.650E-02	2.155E-03	5.473E-02	2.270E-02	1.245E-02	3.530E-03
371372	3757782	3.46461	0	0	1.8	1-HR	DIESEL	1ST	96022008	5.200E-02	0.000E+00	2.992E-03	9.143E-02	2.042E-03	5.186E-02	2.151E-02	1.179E-02	3.345E-03
371399	3757806	3.39702	0	0	1.8	1-HR	DIESEL	1ST	96022008	5.098E-02	0.000E+00	2.934E-03	8.964E-02	2.002E-03	5.085E-02	2.109E-02	1.156E-02	3.279E-03
371798	3758080	2.69402	0	0	1.8	1-HR	DIESEL	1ST	96100807	4.043E-02	0.000E+00	2.327E-03	7.109E-02	1.588E-03	4.032E-02	1.673E-02	9.171E-03	2.601E-03
371908	3757934	2.72761	0	0	1.8	1-HR	DIESEL	1ST	96022008	4.094E-02	0.000E+00	2.356E-03	7.198E-02	1.608E-03	4.083E-02	1.693E-02	9.285E-03	2.633E-03
371964	3757922	2.67768	0	0	1.8	1-HR	DIESEL	1ST	96022008	4.019E-02	0.000E+00	2.313E-03	7.066E-02	1.578E-03	4.008E-02	1.662E-02	9.115E-03	2.581E-03
371970	3757842	2.69425	0	0	1.8	1-HR	DIESEL	1ST	96022008	4.044E-02	0.000E+00	2.327E-03	7.110E-02	1.588E-03	4.033E-02	1.673E-02	9.171E-03	2.601E-03
372023	3757843	2.63321	0	0	1.8	1-HR	DIESEL	1ST	96022008	3.952E-02	0.000E+00	2.274E-03	6.949E-02	1.552E-03	3.941E-02	1.635E-02	8.964E-03	2.542E-03
372020	3757552	2.72718	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.093E-02	0.000E+00	2.356E-03	7.197E-02	1.607E-03	4.082E-02	1.693E-02	9.284E-03	2.633E-03
372002	3757140	3.4799	0	0	1.8	1-HR	DIESEL	1ST	96021407	5.223E-02	0.000E+00	3.006E-03	9.183E-02	2.051E-03	5.209E-02	2.161E-02	1.185E-02	3.359E-03
371514	3757136	4.23974	0	0	1.8	1-HR	DIESEL	1ST	96021407	6.363E-02	0.000E+00	3.662E-03	1.119E-01	2.499E-03	6.346E-02	2.632E-02	1.443E-02	4.093E-03
371035	3757133	5.24826	0	0	1.8	1-HR	DIESEL	1ST	96021407	7.877E-02	0.000E+00	4.533E-03	1.385E-01	3.093E-03	7.855E-02	3.258E-02	1.787E-02	5.066E-03
371034	3757085	5.39076	0	0	1.8	1-HR	DIESEL	1ST	96021407	8.091E-02	0.000E+00	4.656E-03	1.423E-01	3.177E-03	8.069E-02	3.347E-02	1.835E-02	5.204E-03
370764	3757087	6.19954	0	0	1.8	1-HR	DIESEL	1ST	96021407	9.305E-02	0.000E+00	5.355E-03	1.636E-01	3.654E-03	9.279E-02	3.849E-02	2.110E-02	5.985E-03
370754	3756818	6.5879	0	0	1.8	1-HR	DIESEL	1ST	96021407	9.887E-02	0.000E+00	5.690E-03	1.738E-01	3.883E-03	9.861E-02	4.090E-02	2.243E-02	6.360E-03
371031	3756807	5.51023	0	0	1.8	1-HR	DIESEL	1ST	96021407	8.270E-02	0.000E+00	4.759E-03	1.454E-01	3.248E-03	8.248E-02	3.421E-02	1.876E-02	5.319E-03
371033	3756780	5.45118	0	0	1.8	1-HR	DIESEL	1ST	96021407	8.181E-02	0.000E+00	4.708E-03	1.439E-01	3.213E-03	8.159E-02	3.384E-02	1.865E-02	5.262E-03
371483	3756770	4.19124	0	0	1.8	1-HR	DIESEL	1ST	96021407	6.290E-02	0.000E+00	3.620E-03	1.106E-01	2.470E-03	6.273E-02	2.602E-02	1.427E-02	4.046E-03
371817	3756763	3.51457	0	0	1.8	1-HR	DIESEL	1ST	96021407	5.275E-02	0.000E+00	3.036E-03	9.275E-02	2.071E-03	5.261E-02	2.182E-02	1.196E-02	3.393E-03
372274	3756753	2.81887	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.231E-02	0.000E+00	2.435E-03	7.439E-02	1.661E-03	4.219E-02	1.750E-02	9.596E-03	2.721E-03
372713	3756743	2.3223	0	0	1.8	1-HR	DIESEL	1ST	96021407	3.485E-02	0.000E+00	2.006E-03	6.128E-02	1.369E-03	3.476E-02	1.442E-02	7.905E-03	2.242E-03
372703	3756553	1.9919	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.990E-02	0.000E+00	1.720E-03	5.256E-02	1.174E-03	2.981E-02	1.237E-02	6.781E-03	1.923E-03
372819	3756549	1.89349	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.842E-02	0.000E+00	1.635E-03	4.997E-02	1.116E-03	2.834E-02	1.176E-02	6.446E-03	1.828E-03
372814	3756455	1.71878	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.580E-02	0.000E+00	1.485E-03	4.536E-02	1.013E-03	2.573E-02	1.067E-02	5.851E-03	1.659E-03
372797	3756368	1.55879	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.339E-02	0.000E+00	1.346E-03	4.114E-02	9.187E-04	2.333E-02	9.678E-03	5.306E-03	1.505E-03
372705	3756372	1.62349	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.437E-02	0.000E+00	1.402E-03	4.284E-02	9.568E-04	2.430E-02	1.008E-02	5.526E-03	1.567E-03
372706	3756327	1.5302	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.297E-02	0.000E+00	1.322E-03	4.038E-02	9.018E-04	2.290E-02	9.500E-03	5.209E-03	1.477E-03
372927	3756319	1.39363	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.092E-02	0.000E+00	1.204E-03	3.678E-02	8.214E-04	2.086E-02	8.653E-03	4.744E-03	1.345E-03
372926	3756245	1.25753	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.887E-02	0.000E+00	1.086E-03	3.319E-02	7.411E-04	1.882E-02	7.808E-03	4.281E-03	1.214E-03

Table B-3

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*                    FOR A TOTAL OF 120 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET.ID	DATE(CONC)	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylene, m-	xylene, o-	xylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
373457	3756236	1.03645	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.556E-02	0.000E+00	8.952E-04	2.735E-02	6.108E-04	1.551E-02	6.435E-03	3.528E-03	1.001E-03
373448	3755560	0.70492	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.058E-02	0.000E+00	6.089E-04	1.860E-02	4.155E-04	1.055E-02	4.377E-03	2.400E-03	6.805E-04
373222	3755569	0.74134	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.113E-02	0.000E+00	6.403E-04	1.956E-02	4.369E-04	1.110E-02	4.603E-03	2.524E-03	7.156E-04
373219	3755705	0.77061	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.157E-02	0.000E+00	6.656E-04	2.034E-02	4.542E-04	1.153E-02	4.784E-03	2.623E-03	7.439E-04
373135	3755704	0.78699	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.181E-02	0.000E+00	6.797E-04	2.077E-02	4.638E-04	1.178E-02	4.886E-03	2.679E-03	7.597E-04
373131	3755567	0.75482	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.133E-02	0.000E+00	6.520E-04	1.992E-02	4.449E-04	1.130E-02	4.686E-03	2.569E-03	7.287E-04
373054	3755563	0.76542	0	0	1.8	1-HR	DIESEL	1ST	96052101	1.149E-02	0.000E+00	6.611E-04	2.020E-02	4.511E-04	1.146E-02	4.752E-03	2.606E-03	7.389E-04
373046	3755174	0.93483	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.403E-02	0.000E+00	8.074E-04	2.467E-02	5.510E-04	1.399E-02	5.804E-03	3.182E-03	9.024E-04
372725	3755177	1.08675	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.631E-02	0.000E+00	9.387E-04	2.868E-02	6.405E-04	1.627E-02	6.747E-03	3.699E-03	1.049E-03
372624	3755182	1.13716	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.707E-02	0.000E+00	9.822E-04	3.001E-02	6.702E-04	1.702E-02	7.060E-03	3.871E-03	1.098E-03
372238	3755186	1.34802	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.023E-02	0.000E+00	1.164E-03	3.557E-02	7.945E-04	2.018E-02	8.369E-03	4.589E-03	1.301E-03
371843	3755189	1.5747	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.363E-02	0.000E+00	1.360E-03	4.156E-02	9.281E-04	2.357E-02	9.777E-03	5.360E-03	1.520E-03
371463	3755192	1.78093	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.673E-02	0.000E+00	1.538E-03	4.700E-02	1.050E-03	2.666E-02	1.106E-02	6.062E-03	1.719E-03
371049	3755196	1.94057	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.912E-02	0.000E+00	1.676E-03	5.121E-02	1.144E-03	2.905E-02	1.205E-02	6.606E-03	1.873E-03
371056	3755349	2.1438	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.218E-02	0.000E+00	1.852E-03	5.657E-02	1.263E-03	3.209E-02	1.331E-02	7.298E-03	2.069E-03
371043	3755384	2.19292	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.291E-02	0.000E+00	1.894E-03	5.787E-02	1.292E-03	3.282E-02	1.362E-02	7.465E-03	2.117E-03
371042	3755556	2.3444	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.519E-02	0.000E+00	2.025E-03	6.187E-02	1.382E-03	3.509E-02	1.456E-02	7.981E-03	2.263E-03
370996	3755560	2.39748	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.598E-02	0.000E+00	2.071E-03	6.327E-02	1.413E-03	3.589E-02	1.489E-02	8.161E-03	2.314E-03
371001	3755419	2.26178	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.395E-02	0.000E+00	1.954E-03	5.969E-02	1.333E-03	3.385E-02	1.404E-02	7.699E-03	2.183E-03
370801	3755276	2.12861	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.195E-02	0.000E+00	1.839E-03	5.617E-02	1.255E-03	3.186E-02	1.322E-02	7.246E-03	2.055E-03
370667	3755262	2.11011	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.167E-02	0.000E+00	1.823E-03	5.568E-02	1.244E-03	3.158E-02	1.310E-02	7.183E-03	2.037E-03
370380	3755263	2.04529	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.070E-02	0.000E+00	1.767E-03	5.397E-02	1.205E-03	3.061E-02	1.270E-02	6.962E-03	1.974E-03
370076	3755265	2.83975	0	0	1.8	1-HR	DIESEL	1ST	96100707	4.262E-02	0.000E+00	2.453E-03	7.494E-02	1.674E-03	4.250E-02	1.763E-02	9.667E-03	2.741E-03
369787	3755267	3.64332	0	0	1.8	1-HR	DIESEL	1ST	96100707	5.468E-02	0.000E+00	3.147E-03	9.614E-02	2.147E-03	5.453E-02	2.262E-02	1.240E-02	3.517E-03
369498	3755268	3.82525	0	0	1.8	1-HR	DIESEL	1ST	96100707	5.741E-02	0.000E+00	3.304E-03	1.009E-01	2.254E-03	5.726E-02	2.375E-02	1.302E-02	3.693E-03
369194	3755270	5.61123	0	0	1.8	1-HR	DIESEL	1ST	96030107	8.422E-02	0.000E+00	4.847E-03	1.481E-01	3.307E-03	8.399E-02	3.484E-02	1.910E-02	5.417E-03
368889	3755272	8.80098	0	0	1.8	1-HR	DIESEL	1ST	96011009	1.321E-01	0.000E+00	7.602E-03	2.323E-01	5.187E-03	1.317E-01	5.464E-02	2.996E-02	8.496E-03
368569	3755273	12.63701	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.897E-01	0.000E+00	1.091E-02	3.335E-01	7.448E-03	1.891E-01	7.846E-02	4.302E-02	1.220E-02
368275	3755275	11.82104	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.774E-01	0.000E+00	1.021E-02	3.119E-01	6.967E-03	1.769E-01	7.339E-02	4.024E-02	1.141E-02
367936	3755213	9.66374	0	0	1.8	1-HR	DIESEL	1ST	96020707	1.450E-01	0.000E+00	8.347E-03	2.550E-01	5.695E-03	1.446E-01	6.000E-02	3.290E-02	9.329E-03

Table B-4

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC                    DFAULT ELEV   FLGPL
- \*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING
- \*                    FOR A TOTAL OF 120 RECEPTORS.
- \*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol
												(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
367484	3755199	1.5266	0	0	1.8	1-HR	PAVING	1ST	96020707	1.000	1.52660	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367301	3755623	1.64317	0	0	1.8	1-HR	PAVING	1ST	96011508		1.64317	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367114	3756056	1.77569	0	0	1.8	1-HR	PAVING	1ST	96030207		1.77569	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366985	3756358	1.68952	0	0	1.8	1-HR	PAVING	1ST	96020407		1.68952	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366853	3756663	1.55123	0	0	1.8	1-HR	PAVING	1ST	96012907		1.55123	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366902	3756692	1.58642	0	0	1.8	1-HR	PAVING	1ST	96012907		1.58642	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366876	3756760	1.5481	0	0	1.8	1-HR	PAVING	1ST	96012907		1.54810	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366813	3756739	1.51172	0	0	1.8	1-HR	PAVING	1ST	96012907		1.51172	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366677	3757025	1.21883	0	0	1.8	1-HR	PAVING	1ST	96012907		1.21883	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366536	3757322	1.01367	0	0	1.8	1-HR	PAVING	1ST	96020207		1.01367	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366437	3757531	0.91999	0	0	1.8	1-HR	PAVING	1ST	96020207		0.91999	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366487	3757537	0.92968	0	0	1.8	1-HR	PAVING	1ST	96020207		0.92968	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366624	3757468	1.00135	0	0	1.8	1-HR	PAVING	1ST	96020207		1.00135	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366644	3757531	0.97231	0	0	1.8	1-HR	PAVING	1ST	96020207		0.97231	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366777	3757520	1.01212	0	0	1.8	1-HR	PAVING	1ST	96020207		1.01212	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366999	3757642	0.93163	0	0	1.8	1-HR	PAVING	1ST	96020207		0.93163	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367174	3757740	0.8051	0	0	1.8	1-HR	PAVING	1ST	96020207		0.80510	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367291	3757694	0.85665	0	0	1.8	1-HR	PAVING	1ST	96020207		0.85665	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367413	3757695	0.9163	0	0	1.8	1-HR	PAVING	1ST	96020108		0.91630	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367410	3757736	0.94019	0	0	1.8	1-HR	PAVING	1ST	96020108		0.94019	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367518	3757796	1.10439	0	0	1.8	1-HR	PAVING	1ST	96020108		1.10439	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367539	3757802	1.13304	0	0	1.8	1-HR	PAVING	1ST	96020108		1.13304	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367609	3757677	1.16279	0	0	1.8	1-HR	PAVING	1ST	96020108		1.16279	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367769	3757644	1.3839	0	0	1.8	1-HR	PAVING	1ST	96020108		1.38390	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367775	3757719	1.41576	0	0	1.8	1-HR	PAVING	1ST	96020108		1.41576	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367809	3757835	1.45935	0	0	1.8	1-HR	PAVING	1ST	96020108		1.45935	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367807	3757936	1.42451	0	0	1.8	1-HR	PAVING	1ST	96020108		1.42451	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367775	3757959	1.38894	0	0	1.8	1-HR	PAVING	1ST	96020108		1.38894	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367798	3758011	1.37972	0	0	1.8	1-HR	PAVING	1ST	96020108		1.37972	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367914	3757962	1.48127	0	0	1.8	1-HR	PAVING	1ST	96020108		1.48127	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367905	3757930	1.49941	0	0	1.8	1-HR	PAVING	1ST	96020108		1.49941	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368109	3757840	1.70314	0	0	1.8	1-HR	PAVING	1ST	96020108		1.70314	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368233	3757790	1.81981	0	0	1.8	1-HR	PAVING	1ST	96020108		1.81981	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368309	3757762	1.88238	0	0	1.8	1-HR	PAVING	1ST	96020108		1.88238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368603	3757765	1.70917	0	0	1.8	1-HR	PAVING	1ST	96032207		1.70917	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368604	3757719	1.76478	0	0	1.8	1-HR	PAVING	1ST	96020108		1.76478	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368770	3757799	2.33067	0	0	1.8	1-HR	PAVING	1ST	96032207		2.33067	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369017	3757954	2.3195	0	0	1.8	1-HR	PAVING	1ST	96032207		2.31950	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369080	3757864	2.4691	0	0	1.8	1-HR	PAVING	1ST	96032207		2.46910	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369224	3757952	1.89466	0	0	1.8	1-HR	PAVING	1ST	96032207		1.89466	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369409	3757730	1.55961	0	0	1.8	1-HR	PAVING	1ST	96032207		1.55961	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369454	3757776	1.28481	0	0	1.8	1-HR	PAVING	1ST	96040807		1.28481	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369265	3757997	1.67931	0	0	1.8	1-HR	PAVING	1ST	96032207		1.67931	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369452	3758128	0.92363	0	0	1.8	1-HR	PAVING	1ST	96032207		0.92363	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369460	3758394	0.74128	0	0	1.8	1-HR	PAVING	1ST	96032207		0.74128	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

**Table B-4**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC                    DFAULT ELEV   FLGPOL
- \*                            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING
- \*                            FOR A TOTAL OF 120 RECEPTORS.
- \*                            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol
												(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
369853	3758394	0.69507	0	0	1.8	1-HR	PAVING	1ST	96040807	0.69507	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369850	3758078	0.84285	0	0	1.8	1-HR	PAVING	1ST	96040807	0.84285	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370299	3758078	1.35011	0	0	1.8	1-HR	PAVING	1ST	96092907	1.35011	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370298	3757963	1.53834	0	0	1.8	1-HR	PAVING	1ST	96092907	1.53834	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370382	3757966	1.51765	0	0	1.8	1-HR	PAVING	1ST	96092907	1.51765	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370510	3758027	1.40117	0	0	1.8	1-HR	PAVING	1ST	96092907	1.40117	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370506	3758088	1.34589	0	0	1.8	1-HR	PAVING	1ST	96092907	1.34589	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370886	3758089	1.15359	0	0	1.8	1-HR	PAVING	1ST	96100807	1.15359	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370885	3757751	1.27012	0	0	1.8	1-HR	PAVING	1ST	96100807	1.27012	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370907	3757702	1.23428	0	0	1.8	1-HR	PAVING	1ST	96100807	1.23428	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370945	3757670	1.17861	0	0	1.8	1-HR	PAVING	1ST	96100807	1.17861	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371046	3757668	1.0647	0	0	1.8	1-HR	PAVING	1ST	96100807	1.06470	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371046	3757585	1.06602	0	0	1.8	1-HR	PAVING	1ST	96022008	1.06602	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371122	3757584	1.02742	0	0	1.8	1-HR	PAVING	1ST	96022008	1.02742	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371193	3757720	0.94676	0	0	1.8	1-HR	PAVING	1ST	96100807	0.94676	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371254	3757762	0.91399	0	0	1.8	1-HR	PAVING	1ST	96100807	0.91399	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371264	3757783	0.91626	0	0	1.8	1-HR	PAVING	1ST	96100807	0.91626	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371372	3757782	0.85644	0	0	1.8	1-HR	PAVING	1ST	96022008	0.85644	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371399	3757806	0.8393	0	0	1.8	1-HR	PAVING	1ST	96022008	0.83930	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371798	3758080	0.67088	0	0	1.8	1-HR	PAVING	1ST	96100807	0.67088	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371908	3757934	0.6703	0	0	1.8	1-HR	PAVING	1ST	96022008	0.67030	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371964	3757922	0.65773	0	0	1.8	1-HR	PAVING	1ST	96022008	0.65773	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371970	3757842	0.66185	0	0	1.8	1-HR	PAVING	1ST	96022008	0.66185	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372023	3757843	0.6465	0	0	1.8	1-HR	PAVING	1ST	96022008	0.64650	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372020	3757552	0.68078	0	0	1.8	1-HR	PAVING	1ST	96021407	0.68078	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372002	3757140	0.85929	0	0	1.8	1-HR	PAVING	1ST	96021407	0.85929	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371514	3757136	1.05682	0	0	1.8	1-HR	PAVING	1ST	96021407	1.05682	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371035	3757133	1.3227	0	0	1.8	1-HR	PAVING	1ST	96021407	1.32270	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371034	3757085	1.35603	0	0	1.8	1-HR	PAVING	1ST	96021407	1.35603	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370764	3757087	1.57114	0	0	1.8	1-HR	PAVING	1ST	96021407	1.57114	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370754	3756818	1.64425	0	0	1.8	1-HR	PAVING	1ST	96021407	1.64425	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371031	3756807	1.36416	0	0	1.8	1-HR	PAVING	1ST	96021407	1.36416	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371033	3756780	1.34675	0	0	1.8	1-HR	PAVING	1ST	96021407	1.34675	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371483	3756770	1.02424	0	0	1.8	1-HR	PAVING	1ST	96021407	1.02424	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371817	3756763	0.85304	0	0	1.8	1-HR	PAVING	1ST	96021407	0.85304	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372274	3756753	0.67866	0	0	1.8	1-HR	PAVING	1ST	96021407	0.67866	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372713	3756743	0.5554	0	0	1.8	1-HR	PAVING	1ST	96021407	0.55540	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372703	3756553	0.46986	0	0	1.8	1-HR	PAVING	1ST	96021407	0.46986	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372819	3756549	0.44598	0	0	1.8	1-HR	PAVING	1ST	96021407	0.44598	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372814	3756455	0.40168	0	0	1.8	1-HR	PAVING	1ST	96021407	0.40168	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372797	3756368	0.36138	0	0	1.8	1-HR	PAVING	1ST	96021407	0.36138	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372705	3756372	0.37677	0	0	1.8	1-HR	PAVING	1ST	96021407	0.37677	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372706	3756327	0.35347	0	0	1.8	1-HR	PAVING	1ST	96021407	0.35347	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372927	3756319	0.32134	0	0	1.8	1-HR	PAVING	1ST	96021407	0.32134	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372926	3756245	0.28766	0	0	1.8	1-HR	PAVING	1ST	96021407	0.28766	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-4

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\*                    FOR A TOTAL OF 120 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde (ug/m <sup>3</sup> )	acrolein (ug/m <sup>3</sup> )	benzene (ug/m <sup>3</sup> )	butadiene, 1,3- (ug/m <sup>3</sup> )	ethylbenzene (ug/m <sup>3</sup> )	ethylene glycol (ug/m <sup>3</sup> )	formaldehyde (ug/m <sup>3</sup> )	hexane, n- (ug/m <sup>3</sup> )	isopropyl alcohol (ug/m <sup>3</sup> )
373457	3756236	0.2365	0	0	1.8	1-HR	PAVING	1ST	96021407	0.23650	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373448	3755560	0.17134	0	0	1.8	1-HR	PAVING	1ST	96052101	0.17134	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373222	3755569	0.17989	0	0	1.8	1-HR	PAVING	1ST	96052101	0.17989	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373219	3755705	0.18939	0	0	1.8	1-HR	PAVING	1ST	96052101	0.18939	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373135	3755704	0.19328	0	0	1.8	1-HR	PAVING	1ST	96052101	0.19328	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373131	3755567	0.18322	0	0	1.8	1-HR	PAVING	1ST	96010208	0.18322	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373054	3755563	0.1926	0	0	1.8	1-HR	PAVING	1ST	96010208	0.19260	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373046	3755174	0.23941	0	0	1.8	1-HR	PAVING	1ST	96010208	0.23941	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372725	3755177	0.27776	0	0	1.8	1-HR	PAVING	1ST	96010208	0.27776	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372624	3755182	0.29049	0	0	1.8	1-HR	PAVING	1ST	96010208	0.29049	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372238	3755186	0.34308	0	0	1.8	1-HR	PAVING	1ST	96010208	0.34308	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371843	3755189	0.39845	0	0	1.8	1-HR	PAVING	1ST	96010208	0.39845	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371463	3755192	0.44667	0	0	1.8	1-HR	PAVING	1ST	96010208	0.44667	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371049	3755196	0.47897	0	0	1.8	1-HR	PAVING	1ST	96010208	0.47897	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371056	3755349	0.53962	0	0	1.8	1-HR	PAVING	1ST	96010208	0.53962	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371043	3755384	0.55385	0	0	1.8	1-HR	PAVING	1ST	96010208	0.55385	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371042	3755556	0.60175	0	0	1.8	1-HR	PAVING	1ST	96010208	0.60175	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370996	3755560	0.61508	0	0	1.8	1-HR	PAVING	1ST	96010208	0.61508	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371001	3755419	0.57267	0	0	1.8	1-HR	PAVING	1ST	96010208	0.57267	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370801	3755276	0.52431	0	0	1.8	1-HR	PAVING	1ST	96010208	0.52431	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370667	3755262	0.51355	0	0	1.8	1-HR	PAVING	1ST	96010208	0.51355	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370380	3755263	0.52338	0	0	1.8	1-HR	PAVING	1ST	96010523	0.52338	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370076	3755265	0.75909	0	0	1.8	1-HR	PAVING	1ST	96100707	0.75909	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369787	3755267	0.97193	0	0	1.8	1-HR	PAVING	1ST	96100707	0.97193	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369498	3755268	1.01367	0	0	1.8	1-HR	PAVING	1ST	96100707	1.01367	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369194	3755270	1.50285	0	0	1.8	1-HR	PAVING	1ST	96030107	1.50285	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368889	3755272	2.35775	0	0	1.8	1-HR	PAVING	1ST	96011009	2.35775	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368569	3755273	3.38524	0	0	1.8	1-HR	PAVING	1ST	96012607	3.38524	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368275	3755275	3.16955	0	0	1.8	1-HR	PAVING	1ST	96012607	3.16955	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367936	3755213	2.53628	0	0	1.8	1-HR	PAVING	1ST	96020707	2.53628	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-4

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DEFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
367484	3755199	1.5266	0	0	1.8	1-HR	PAVING	1ST	96020707	0.000E+00	0.000E+00	0.000E+00	9.973E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367301	3755623	1.64317	0	0	1.8	1-HR	PAVING	1ST	96011508	0.000E+00	0.000E+00	0.000E+00	1.073E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367114	3756056	1.77569	0	0	1.8	1-HR	PAVING	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	1.160E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366985	3756358	1.68952	0	0	1.8	1-HR	PAVING	1ST	96020407	0.000E+00	0.000E+00	0.000E+00	1.104E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366853	3756663	1.55123	0	0	1.8	1-HR	PAVING	1ST	96012907	0.000E+00	0.000E+00	0.000E+00	1.013E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366902	3756692	1.58642	0	0	1.8	1-HR	PAVING	1ST	96012907	0.000E+00	0.000E+00	0.000E+00	1.036E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366876	3756760	1.5481	0	0	1.8	1-HR	PAVING	1ST	96012907	0.000E+00	0.000E+00	0.000E+00	1.011E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366813	3756739	1.51172	0	0	1.8	1-HR	PAVING	1ST	96012907	0.000E+00	0.000E+00	0.000E+00	9.876E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366677	3757025	1.21883	0	0	1.8	1-HR	PAVING	1ST	96012907	0.000E+00	0.000E+00	0.000E+00	7.963E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366536	3757322	1.01367	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.622E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366437	3757531	0.91999	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.010E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366487	3757537	0.92968	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.074E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366624	3757468	1.00135	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.542E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366644	3757531	0.97231	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.352E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366777	3757520	1.01212	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.612E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
366999	3757642	0.93163	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	6.086E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367174	3757740	0.8051	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	5.260E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367291	3757694	0.85665	0	0	1.8	1-HR	PAVING	1ST	96020207	0.000E+00	0.000E+00	0.000E+00	5.596E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367413	3757695	0.9163	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	5.986E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367410	3757736	0.94019	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	6.142E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367518	3757796	1.10439	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	7.215E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367539	3757802	1.13304	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	7.402E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367609	3757677	1.16279	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	7.597E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367769	3757644	1.3839	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.041E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367775	3757719	1.41576	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367809	3757835	1.45935	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.534E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367807	3757936	1.42451	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.306E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367775	3757959	1.38894	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.074E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367798	3758011	1.37972	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.014E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367914	3757962	1.48127	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.677E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367905	3757930	1.49941	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	9.796E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368109	3757840	1.70314	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	1.113E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368233	3757790	1.81981	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	1.189E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368309	3757762	1.88238	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	1.230E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368603	3757765	1.70917	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.117E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368604	3757719	1.76478	0	0	1.8	1-HR	PAVING	1ST	96020108	0.000E+00	0.000E+00	0.000E+00	1.153E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368770	3757799	2.33067	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.523E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369017	3757954	2.3195	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.515E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369080	3757864	2.4691	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.613E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369224	3757952	1.89466	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.238E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369409	3757730	1.55961	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.019E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369454	3757776	1.28481	0	0	1.8	1-HR	PAVING	1ST	96040807	0.000E+00	0.000E+00	0.000E+00	8.394E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369265	3757997	1.67931	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	1.097E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369452	3758128	0.92363	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	6.034E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369460	3758394	0.74128	0	0	1.8	1-HR	PAVING	1ST	96032207	0.000E+00	0.000E+00	0.000E+00	4.843E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-4

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DEFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
369853	3758394	0.69507	0	0	1.8	1-HR	PAVING	1ST	96040807	0.000E+00	0.000E+00	0.000E+00	4.541E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369850	3758078	0.84285	0	0	1.8	1-HR	PAVING	1ST	96040807	0.000E+00	0.000E+00	0.000E+00	5.506E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370299	3758078	1.35011	0	0	1.8	1-HR	PAVING	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	8.820E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370298	3757963	1.53834	0	0	1.8	1-HR	PAVING	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	1.005E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370382	3757966	1.51765	0	0	1.8	1-HR	PAVING	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	9.915E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370510	3758027	1.40117	0	0	1.8	1-HR	PAVING	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	9.154E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370506	3758088	1.34589	0	0	1.8	1-HR	PAVING	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	8.793E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370886	3758089	1.15359	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	7.536E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370885	3757751	1.27012	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	8.298E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370907	3757702	1.23428	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	8.064E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370945	3757670	1.17861	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	7.700E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371046	3757668	1.0647	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	6.956E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371046	3757585	1.06602	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	6.964E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371122	3757584	1.02742	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	6.712E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371193	3757720	0.94676	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	6.185E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371254	3757762	0.91399	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	5.971E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371264	3757783	0.91626	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	5.986E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371372	3757782	0.85644	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	5.595E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371399	3757806	0.8393	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	5.483E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371798	3758080	0.67088	0	0	1.8	1-HR	PAVING	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	4.383E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371908	3757934	0.6703	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	4.379E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371964	3757922	0.65773	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	4.297E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371970	3757842	0.66185	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	4.324E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372023	3757843	0.6465	0	0	1.8	1-HR	PAVING	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	4.224E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372020	3757552	0.68078	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	4.448E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372002	3757140	0.85929	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	5.614E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371514	3757136	1.05682	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	6.904E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371035	3757133	1.3227	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	8.641E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371034	3757085	1.35603	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	8.859E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370764	3757087	1.57114	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.026E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370754	3756818	1.64425	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.074E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371031	3756807	1.36416	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	8.912E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371033	3756780	1.34675	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	8.798E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371483	3756770	1.02424	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	6.691E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371817	3756763	0.85304	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	5.573E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372274	3756753	0.67866	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	4.434E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372713	3756743	0.5554	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	3.628E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372703	3756553	0.46986	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	3.070E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372819	3756549	0.44598	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.914E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372814	3756455	0.40168	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.624E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372797	3756368	0.36138	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.361E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372705	3756372	0.37677	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.461E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372706	3756327	0.35347	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.309E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372927	3756319	0.32134	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	2.099E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372926	3756245	0.28766	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.879E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-4

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*       PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\*       FOR A TOTAL OF 120 RECEPTORS.

\*       FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
373457	3756236	0.2365	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.545E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373448	3755560	0.17134	0	0	1.8	1-HR	PAVING	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	1.119E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373222	3755569	0.17989	0	0	1.8	1-HR	PAVING	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	1.175E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373219	3755705	0.18939	0	0	1.8	1-HR	PAVING	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	1.237E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373135	3755704	0.19328	0	0	1.8	1-HR	PAVING	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	1.263E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373131	3755567	0.18322	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	1.197E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373054	3755563	0.1926	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	1.258E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
373046	3755174	0.23941	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	1.564E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372725	3755177	0.27776	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	1.815E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372624	3755182	0.29049	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	1.898E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
372238	3755186	0.34308	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	2.241E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371843	3755189	0.39845	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	2.603E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371463	3755192	0.44667	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	2.918E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371049	3755196	0.47897	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.129E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371056	3755349	0.53962	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.525E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371043	3755384	0.55385	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.618E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371042	3755556	0.60175	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.931E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370996	3755560	0.61508	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	4.018E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
371001	3755419	0.57267	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.741E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370801	3755276	0.52431	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.425E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370667	3755262	0.51355	0	0	1.8	1-HR	PAVING	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.355E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370380	3755263	0.52338	0	0	1.8	1-HR	PAVING	1ST	96010523	0.000E+00	0.000E+00	0.000E+00	3.419E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
370076	3755265	0.75909	0	0	1.8	1-HR	PAVING	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	4.959E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369787	3755267	0.97193	0	0	1.8	1-HR	PAVING	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	6.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369498	3755268	1.01367	0	0	1.8	1-HR	PAVING	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	6.622E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369194	3755270	1.50285	0	0	1.8	1-HR	PAVING	1ST	96030107	0.000E+00	0.000E+00	0.000E+00	9.818E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368889	3755272	2.35775	0	0	1.8	1-HR	PAVING	1ST	96011009	0.000E+00	0.000E+00	0.000E+00	1.540E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368569	3755273	3.38524	0	0	1.8	1-HR	PAVING	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	2.212E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
368275	3755275	3.16955	0	0	1.8	1-HR	PAVING	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	2.071E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367936	3755213	2.53628	0	0	1.8	1-HR	PAVING	1ST	96020707	0.000E+00	0.000E+00	0.000E+00	1.657E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00







**Table B-5**  
**AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Unmitigated**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC                   DFAULT ELEV   FLGPOL
- \*       PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING
- \*       FOR A TOTAL OF 120 RECEPTORS.
- \*       FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	TOG (ug/m <sup>3</sup> )	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol	methyl alcohol
											(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
373457	3756236	1.22612	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.22612	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.218E-02	1.572E-03	0.000E+00	3.678E-02	3.810E-03	2.141E-03
373448	3755560	0.8883	0	0	1.8	1-HR	PAINTING	1ST	96052101	0.88830	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.822E-03	1.139E-03	0.000E+00	2.665E-02	2.760E-03	1.551E-03
373222	3755569	0.93263	0	0	1.8	1-HR	PAINTING	1ST	96052101	0.93263	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.262E-03	1.196E-03	0.000E+00	2.798E-02	2.898E-03	1.628E-03
373219	3755705	0.98187	0	0	1.8	1-HR	PAINTING	1ST	96052101	0.98187	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.751E-03	1.259E-03	0.000E+00	2.945E-02	3.051E-03	1.714E-03
373135	3755704	1.00204	0	0	1.8	1-HR	PAINTING	1ST	96052101	1.00204	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.951E-03	1.284E-03	0.000E+00	3.006E-02	3.113E-03	1.749E-03
373131	3755567	0.94989	0	0	1.8	1-HR	PAINTING	1ST	96010208	0.94989	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.433E-03	1.218E-03	0.000E+00	2.850E-02	2.951E-03	1.658E-03
373054	3755563	0.99853	0	0	1.8	1-HR	PAINTING	1ST	96010208	0.99853	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.916E-03	1.280E-03	0.000E+00	2.995E-02	3.102E-03	1.743E-03
373046	3755174	1.2412	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.24120	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.233E-02	1.591E-03	0.000E+00	3.723E-02	3.856E-03	2.167E-03
372725	3755177	1.44	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.44000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.430E-02	1.846E-03	0.000E+00	4.320E-02	4.474E-03	2.514E-03
372624	3755182	1.50603	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.50603	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.496E-02	1.931E-03	0.000E+00	4.518E-02	4.679E-03	2.629E-03
372238	3755186	1.77868	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.77868	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.766E-02	2.280E-03	0.000E+00	5.336E-02	5.526E-03	3.105E-03
371843	3755189	2.06572	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.06572	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.051E-02	2.648E-03	0.000E+00	6.197E-02	6.418E-03	3.606E-03
371463	3755192	2.31573	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.31573	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.300E-02	2.968E-03	0.000E+00	6.947E-02	7.195E-03	4.043E-03
371049	3755196	2.4832	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.48320	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.466E-02	3.183E-03	0.000E+00	7.449E-02	7.715E-03	4.335E-03
371056	3755349	2.79761	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.79761	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.778E-02	3.586E-03	0.000E+00	8.392E-02	8.692E-03	4.884E-03
371043	3755384	2.87137	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.87137	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.852E-02	3.681E-03	0.000E+00	8.614E-02	8.921E-03	5.013E-03
371042	3755556	3.11971	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.11971	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.098E-02	3.999E-03	0.000E+00	9.359E-02	9.693E-03	5.447E-03
370996	3755560	3.18884	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.18884	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.167E-02	4.088E-03	0.000E+00	9.566E-02	9.908E-03	5.567E-03
371001	3755419	2.96895	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.96895	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.948E-02	3.806E-03	0.000E+00	8.906E-02	9.224E-03	5.183E-03
370801	3755276	2.71825	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.71825	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.699E-02	3.484E-03	0.000E+00	8.154E-02	8.445E-03	4.746E-03
370667	3755262	2.66245	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.66245	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.644E-02	3.413E-03	0.000E+00	7.987E-02	8.272E-03	4.648E-03
370380	3755263	2.71344	0	0	1.8	1-HR	PAINTING	1ST	96010523	2.71344	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.695E-02	3.478E-03	0.000E+00	8.140E-02	8.431E-03	4.737E-03
370076	3755265	3.93542	0	0	1.8	1-HR	PAINTING	1ST	96100707	3.93542	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.908E-02	5.045E-03	0.000E+00	1.181E-01	1.223E-02	6.871E-03
369787	3755267	5.03888	0	0	1.8	1-HR	PAINTING	1ST	96100707	5.03888	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.004E-02	6.459E-03	0.000E+00	1.512E-01	1.566E-02	8.797E-03
369498	3755268	5.25529	0	0	1.8	1-HR	PAINTING	1ST	96100707	5.25529	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.219E-02	6.737E-03	0.000E+00	1.576E-01	1.633E-02	9.175E-03
369194	3755270	7.7914	0	0	1.8	1-HR	PAINTING	1ST	96030107	7.79140	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.738E-02	9.988E-03	0.000E+00	2.337E-01	2.421E-02	1.360E-02
368889	3755272	12.22357	0	0	1.8	1-HR	PAINTING	1ST	96011009	12.22357	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.214E-01	1.567E-02	0.000E+00	3.667E-01	3.798E-02	2.134E-02
368569	3755273	17.55049	0	0	1.8	1-HR	PAINTING	1ST	96012607	17.55049	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.743E-01	2.250E-02	0.000E+00	5.265E-01	5.453E-02	3.064E-02
368275	3755275	16.43225	0	0	1.8	1-HR	PAINTING	1ST	96012607	16.43225	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.632E-01	2.106E-02	0.000E+00	4.929E-01	5.105E-02	2.869E-02
367936	3755213	13.14913	0	0	1.8	1-HR	PAINTING	1ST	96020707	13.14913	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.306E-01	1.686E-02	0.000E+00	3.945E-01	4.085E-02	2.296E-02

Table B-5

AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylylene, m-	xylylene, o-	xylylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
367484	3755199	7.91454	0	0	1.8	1-HR	PAINTING	1ST	96020707	9.346E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.324E-01	7.361E-03	3.247E-03	3.247E-03
367301	3755623	8.51884	0	0	1.8	1-HR	PAINTING	1ST	96011508	1.006E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.883E-01	7.923E-03	3.495E-03	3.495E-03
367114	3756056	9.2059	0	0	1.8	1-HR	PAINTING	1ST	96030207	1.087E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.519E-01	8.562E-03	3.777E-03	3.777E-03
366985	3756358	8.75915	0	0	1.8	1-HR	PAINTING	1ST	96020407	1.034E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.106E-01	8.147E-03	3.594E-03	3.594E-03
366853	3756663	8.04223	0	0	1.8	1-HR	PAINTING	1ST	96012907	9.496E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.442E-01	7.480E-03	3.300E-03	3.300E-03
366902	3756692	8.22468	0	0	1.8	1-HR	PAINTING	1ST	96012907	9.712E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.611E-01	7.650E-03	3.375E-03	3.375E-03
366876	3756760	8.02599	0	0	1.8	1-HR	PAINTING	1ST	96012907	9.477E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.427E-01	7.465E-03	3.293E-03	3.293E-03
366813	3756739	7.83738	0	0	1.8	1-HR	PAINTING	1ST	96012907	9.254E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.253E-01	7.289E-03	3.216E-03	3.216E-03
366677	3757025	6.31893	0	0	1.8	1-HR	PAINTING	1ST	96012907	7.461E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.848E-01	5.877E-03	2.593E-03	2.593E-03
366536	3757322	5.2553	0	0	1.8	1-HR	PAINTING	1ST	96020207	6.206E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.863E-01	4.888E-03	2.156E-03	2.156E-03
366437	3757531	4.76959	0	0	1.8	1-HR	PAINTING	1ST	96020207	5.632E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.414E-01	4.436E-03	1.957E-03	1.957E-03
366487	3757537	4.81986	0	0	1.8	1-HR	PAINTING	1ST	96020207	5.691E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.460E-01	4.483E-03	1.978E-03	1.978E-03
366624	3757468	5.19142	0	0	1.8	1-HR	PAINTING	1ST	96020207	6.130E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.804E-01	4.828E-03	2.130E-03	2.130E-03
366644	3757531	5.04085	0	0	1.8	1-HR	PAINTING	1ST	96020207	5.952E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.665E-01	4.688E-03	2.068E-03	2.068E-03
366777	3757520	5.24725	0	0	1.8	1-HR	PAINTING	1ST	96020207	6.196E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.856E-01	4.880E-03	2.153E-03	2.153E-03
366999	3757642	4.82998	0	0	1.8	1-HR	PAINTING	1ST	96020207	5.703E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.470E-01	4.492E-03	1.982E-03	1.982E-03
367174	3757740	4.17397	0	0	1.8	1-HR	PAINTING	1ST	96020207	4.929E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.863E-01	3.882E-03	1.713E-03	1.713E-03
367291	3757694	4.44121	0	0	1.8	1-HR	PAINTING	1ST	96020207	5.244E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.110E-01	4.131E-03	1.822E-03	1.822E-03
367413	3757695	4.75049	0	0	1.8	1-HR	PAINTING	1ST	96020108	5.609E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.396E-01	4.418E-03	1.949E-03	1.949E-03
367410	3757736	4.87434	0	0	1.8	1-HR	PAINTING	1ST	96020108	5.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.511E-01	4.533E-03	2.000E-03	2.000E-03
367518	3757796	5.7256	0	0	1.8	1-HR	PAINTING	1ST	96020108	6.761E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.299E-01	5.325E-03	2.349E-03	2.349E-03
367539	3757802	5.87414	0	0	1.8	1-HR	PAINTING	1ST	96020108	6.936E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.436E-01	5.463E-03	2.410E-03	2.410E-03
367809	3757677	6.02839	0	0	1.8	1-HR	PAINTING	1ST	96020108	7.118E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.579E-01	5.607E-03	2.474E-03	2.474E-03
367769	3757644	7.17469	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.472E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.640E-01	6.673E-03	2.944E-03	2.944E-03
367775	3757719	7.33988	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.667E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.792E-01	6.827E-03	3.012E-03	3.012E-03
367809	3757835	7.56589	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.934E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.002E-01	7.037E-03	3.104E-03	3.104E-03
367807	3757936	7.38523	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.721E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.834E-01	6.869E-03	3.030E-03	3.030E-03
367775	3757959	7.20082	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.503E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.664E-01	6.697E-03	2.955E-03	2.955E-03
367798	3758011	7.15302	0	0	1.8	1-HR	PAINTING	1ST	96020108	8.446E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.620E-01	6.653E-03	2.935E-03	2.935E-03
367914	3757962	7.67952	0	0	1.8	1-HR	PAINTING	1ST	96020108	9.068E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.107E-01	7.142E-03	3.151E-03	3.151E-03
367905	3757930	7.77357	0	0	1.8	1-HR	PAINTING	1ST	96020108	9.179E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.194E-01	7.230E-03	3.190E-03	3.190E-03
368109	3757840	8.82978	0	0	1.8	1-HR	PAINTING	1ST	96020108	1.043E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.171E-01	8.212E-03	3.623E-03	3.623E-03
368233	3757790	9.43466	0	0	1.8	1-HR	PAINTING	1ST	96020108	1.114E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.731E-01	8.775E-03	3.871E-03	3.871E-03
368309	3757762	9.75902	0	0	1.8	1-HR	PAINTING	1ST	96020108	1.152E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.031E-01	9.077E-03	4.004E-03	4.004E-03
368603	3757765	8.86104	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.046E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.200E-01	8.241E-03	3.636E-03	3.636E-03
368604	3757719	9.14936	0	0	1.8	1-HR	PAINTING	1ST	96020108	1.080E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.467E-01	8.510E-03	3.754E-03	3.754E-03
368770	3757799	12.08317	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.427E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.118E+00	1.124E-02	4.958E-03	4.958E-03
369017	3757954	12.02525	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.420E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.113E+00	1.118E-02	4.934E-03	4.934E-03
369080	3757864	12.80084	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.512E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.185E+00	1.191E-02	5.252E-03	5.252E-03
369224	3757952	9.82269	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.160E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.090E-01	9.136E-03	4.030E-03	4.030E-03
369409	3757730	8.08564	0	0	1.8	1-HR	PAINTING	1ST	96032207	9.548E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.483E-01	7.520E-03	3.318E-03	3.318E-03
369454	3757776	6.66096	0	0	1.8	1-HR	PAINTING	1ST	96040807	7.865E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.164E-01	6.195E-03	2.733E-03	2.733E-03
369265	3757997	8.70625	0	0	1.8	1-HR	PAINTING	1ST	96032207	1.028E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.057E-01	8.097E-03	3.572E-03	3.572E-03
369452	3758128	4.78846	0	0	1.8	1-HR	PAINTING	1ST	96032207	5.654E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.431E-01	4.454E-03	1.965E-03	1.965E-03
369460	3758394	3.84311	0	0	1.8	1-HR	PAINTING	1ST	96032207	4.538E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.556E-01	3.574E-03	1.577E-03	1.577E-03

Table B-5

AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl ethyl ketone	methyl t-butyl ether	naphthalene	propylene	styrene	toluene	xylene, m-	xylene, o-	xylene, p-
										(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
369853	3758394	3.60351	0	0	1.8	1-HR	PAINTING	1ST	96040807	4.255E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.335E-01	3.352E-03	1.479E-03	1.479E-03
369850	3758078	4.36971	0	0	1.8	1-HR	PAINTING	1ST	96040807	5.160E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.044E-01	4.064E-03	1.793E-03	1.793E-03
370299	3758078	6.99954	0	0	1.8	1-HR	PAINTING	1ST	96092907	8.265E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.477E-01	6.510E-03	2.872E-03	2.872E-03
370298	3757963	7.97539	0	0	1.8	1-HR	PAINTING	1ST	96092907	9.417E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.381E-01	7.418E-03	3.272E-03	3.272E-03
370382	3757966	7.86813	0	0	1.8	1-HR	PAINTING	1ST	96092907	9.291E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.281E-01	7.318E-03	3.228E-03	3.228E-03
370510	3758027	7.26425	0	0	1.8	1-HR	PAINTING	1ST	96092907	8.578E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.722E-01	6.756E-03	2.981E-03	2.981E-03
370506	3758088	6.97764	0	0	1.8	1-HR	PAINTING	1ST	96092907	8.239E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.457E-01	6.490E-03	2.863E-03	2.863E-03
370886	3758089	5.9807	0	0	1.8	1-HR	PAINTING	1ST	96100807	7.062E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.535E-01	5.562E-03	2.454E-03	2.454E-03
370885	3757751	6.58482	0	0	1.8	1-HR	PAINTING	1ST	96100807	7.775E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.094E-01	6.124E-03	2.702E-03	2.702E-03
370907	3757702	6.399	0	0	1.8	1-HR	PAINTING	1ST	96100807	7.556E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.922E-01	5.952E-03	2.626E-03	2.626E-03
370945	3757670	6.11041	0	0	1.8	1-HR	PAINTING	1ST	96100807	7.215E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.655E-01	5.683E-03	2.507E-03	2.507E-03
371046	3757668	5.51986	0	0	1.8	1-HR	PAINTING	1ST	96100807	6.518E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.108E-01	5.134E-03	2.265E-03	2.265E-03
371046	3757585	5.52667	0	0	1.8	1-HR	PAINTING	1ST	96022008	6.526E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.114E-01	5.140E-03	2.268E-03	2.268E-03
371122	3757584	5.32656	0	0	1.8	1-HR	PAINTING	1ST	96022008	6.290E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.929E-01	4.954E-03	2.186E-03	2.186E-03
371193	3757720	4.90838	0	0	1.8	1-HR	PAINTING	1ST	96100807	5.796E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.542E-01	4.565E-03	2.014E-03	2.014E-03
371254	3757762	4.73851	0	0	1.8	1-HR	PAINTING	1ST	96100807	5.595E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.385E-01	4.407E-03	1.944E-03	1.944E-03
371264	3757783	4.75029	0	0	1.8	1-HR	PAINTING	1ST	96100807	5.609E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.396E-01	4.418E-03	1.949E-03	1.949E-03
371372	3757782	4.44011	0	0	1.8	1-HR	PAINTING	1ST	96022008	5.243E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.109E-01	4.130E-03	1.822E-03	1.822E-03
371399	3757806	4.35129	0	0	1.8	1-HR	PAINTING	1ST	96022008	5.138E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.027E-01	4.047E-03	1.785E-03	1.785E-03
371798	3758080	3.47809	0	0	1.8	1-HR	PAINTING	1ST	96100807	4.107E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.219E-01	3.235E-03	1.427E-03	1.427E-03
371908	3757934	3.47513	0	0	1.8	1-HR	PAINTING	1ST	96022008	4.103E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.216E-01	3.232E-03	1.426E-03	1.426E-03
371964	3757922	3.40994	0	0	1.8	1-HR	PAINTING	1ST	96022008	4.026E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.156E-01	3.171E-03	1.399E-03	1.399E-03
371970	3757842	3.43131	0	0	1.8	1-HR	PAINTING	1ST	96022008	4.052E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.175E-01	3.191E-03	1.408E-03	1.408E-03
372023	3757843	3.3517	0	0	1.8	1-HR	PAINTING	1ST	96022008	3.958E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.102E-01	3.117E-03	1.375E-03	1.375E-03
372020	3757552	3.52944	0	0	1.8	1-HR	PAINTING	1ST	96021407	4.168E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.266E-01	3.283E-03	1.448E-03	1.448E-03
372002	3757140	4.45491	0	0	1.8	1-HR	PAINTING	1ST	96021407	5.260E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.123E-01	4.143E-03	1.828E-03	1.828E-03
371514	3757136	5.47897	0	0	1.8	1-HR	PAINTING	1ST	96021407	6.470E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.070E-01	5.096E-03	2.248E-03	2.248E-03
371035	3757133	6.85743	0	0	1.8	1-HR	PAINTING	1ST	96021407	8.097E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.346E-01	6.378E-03	2.814E-03	2.814E-03
371034	3757085	7.03024	0	0	1.8	1-HR	PAINTING	1ST	96021407	8.301E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.506E-01	6.539E-03	2.885E-03	2.885E-03
370764	3757087	8.14542	0	0	1.8	1-HR	PAINTING	1ST	96021407	9.618E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.538E-01	7.576E-03	3.342E-03	3.342E-03
370754	3756818	8.52448	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.007E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.889E-01	7.928E-03	3.498E-03	3.498E-03
371031	3756807	7.07239	0	0	1.8	1-HR	PAINTING	1ST	96021407	8.351E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.545E-01	6.578E-03	2.902E-03	2.902E-03
371033	3756780	6.98211	0	0	1.8	1-HR	PAINTING	1ST	96021407	8.245E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.461E-01	6.494E-03	2.865E-03	2.865E-03
371483	3756770	5.31006	0	0	1.8	1-HR	PAINTING	1ST	96021407	6.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.914E-01	4.939E-03	2.179E-03	2.179E-03
371817	3756763	4.42249	0	0	1.8	1-HR	PAINTING	1ST	96021407	5.222E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.093E-01	4.113E-03	1.815E-03	1.815E-03
372274	3756753	3.51847	0	0	1.8	1-HR	PAINTING	1ST	96021407	4.155E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.256E-01	3.272E-03	1.444E-03	1.444E-03
372713	3756743	2.87945	0	0	1.8	1-HR	PAINTING	1ST	96021407	3.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.665E-01	2.678E-03	1.181E-03	1.181E-03
372703	3756553	2.43595	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.876E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.254E-01	2.266E-03	9.995E-04	9.995E-04
372819	3756549	2.31216	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.730E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.140E-01	2.150E-03	9.487E-04	9.487E-04
372814	3756455	2.08245	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.459E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.927E-01	1.937E-03	8.545E-04	8.545E-04
372797	3756368	1.87357	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.212E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.734E-01	1.743E-03	7.688E-04	7.688E-04
372705	3756372	1.95335	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.307E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.808E-01	1.817E-03	8.015E-04	8.015E-04
372706	3756327	1.83255	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.164E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.696E-01	1.704E-03	7.519E-04	7.519E-04
372927	3756319	1.66594	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.967E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.542E-01	1.549E-03	6.836E-04	6.836E-04
372926	3756245	1.49136	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.761E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.380E-01	1.387E-03	6.119E-04	6.119E-04

Table B-5

AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
373457	3756236	1.22612	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.448E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.135E-01	1.140E-03	5.031E-04	5.031E-04
373448	3755560	0.8883	0	0	1.8	1-HR	PAINTING	1ST	96052101	1.049E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.220E-02	8.262E-04	3.645E-04	3.645E-04
373222	3755569	0.93263	0	0	1.8	1-HR	PAINTING	1ST	96052101	1.101E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.631E-02	8.674E-04	3.827E-04	3.827E-04
373219	3755705	0.98187	0	0	1.8	1-HR	PAINTING	1ST	96052101	1.159E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.086E-02	9.132E-04	4.029E-04	4.029E-04
373135	3755704	1.00204	0	0	1.8	1-HR	PAINTING	1ST	96052101	1.183E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.273E-02	9.320E-04	4.112E-04	4.112E-04
373131	3755567	0.94989	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.122E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.790E-02	8.835E-04	3.898E-04	3.898E-04
373054	3755563	0.99853	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.179E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.241E-02	9.287E-04	4.097E-04	4.097E-04
373046	3755174	1.2412	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.466E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.149E-01	1.154E-03	5.093E-04	5.093E-04
372725	3755177	1.44	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.700E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.333E-01	1.339E-03	5.909E-04	5.909E-04
372624	3755182	1.50603	0	0	1.8	1-HR	PAINTING	1ST	96010208	1.778E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.394E-01	1.401E-03	6.180E-04	6.180E-04
372238	3755186	1.77868	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.100E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.646E-01	1.654E-03	7.298E-04	7.298E-04
371843	3755189	2.06572	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.439E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.912E-01	1.921E-03	8.476E-04	8.476E-04
371463	3755192	2.31573	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.734E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.143E-01	2.154E-03	9.502E-04	9.502E-04
371049	3755196	2.4832	0	0	1.8	1-HR	PAINTING	1ST	96010208	2.932E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.298E-01	2.310E-03	1.019E-03	1.019E-03
371056	3755349	2.79761	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.303E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.589E-01	2.602E-03	1.148E-03	1.148E-03
371043	3755384	2.87137	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.391E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.657E-01	2.671E-03	1.178E-03	1.178E-03
371042	3755556	3.11971	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.684E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.887E-01	2.902E-03	1.280E-03	1.280E-03
370996	3755560	3.18884	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.765E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.951E-01	2.966E-03	1.308E-03	1.308E-03
371001	3755419	2.96895	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.506E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.748E-01	2.761E-03	1.218E-03	1.218E-03
370801	3755276	2.71825	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.516E-01	2.528E-03	1.115E-03	1.115E-03
370667	3755262	2.66245	0	0	1.8	1-HR	PAINTING	1ST	96010208	3.144E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.464E-01	2.476E-03	1.092E-03	1.092E-03
370380	3755263	2.71344	0	0	1.8	1-HR	PAINTING	1ST	96010523	3.204E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.511E-01	2.524E-03	1.113E-03	1.113E-03
370076	3755265	3.93542	0	0	1.8	1-HR	PAINTING	1ST	96100707	4.647E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.642E-01	3.660E-03	1.615E-03	1.615E-03
369787	3755267	5.03888	0	0	1.8	1-HR	PAINTING	1ST	96100707	5.950E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.663E-01	4.687E-03	2.068E-03	2.068E-03
369498	3755268	5.25529	0	0	1.8	1-HR	PAINTING	1ST	96100707	6.205E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.863E-01	4.888E-03	2.156E-03	2.156E-03
369194	3755270	7.7914	0	0	1.8	1-HR	PAINTING	1ST	96030107	9.200E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.210E-01	7.247E-03	3.197E-03	3.197E-03
368889	3755272	12.22357	0	0	1.8	1-HR	PAINTING	1ST	96011009	1.443E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.131E+00	1.137E-02	5.016E-03	5.016E-03
368569	3755273	17.55049	0	0	1.8	1-HR	PAINTING	1ST	96012607	2.072E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.624E+00	1.632E-02	7.201E-03	7.201E-03
368275	3755275	16.43225	0	0	1.8	1-HR	PAINTING	1ST	96012607	1.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.521E+00	1.528E-02	6.742E-03	6.742E-03
367936	3755213	13.14913	0	0	1.8	1-HR	PAINTING	1ST	96020707	1.553E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.217E+00	1.223E-02	5.395E-03	5.395E-03

Table B-6

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel and Gasoline, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL  
 \* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL  
 \* FOR A TOTAL OF 120 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Gas Peak + Dsl Peak + Paving + Painting	Difference with All
367484	3755199	17.46722	0	0	1.8	1-HR	ALL	1ST	96020707	17.38301	-0.482%
367301	3755623	19.73516	0	0	1.8	1-HR	ALL	1ST	96011508	19.67085	-0.326%
367114	3756056	21.58614	0	0	1.8	1-HR	ALL	1ST	96030207	21.51643	-0.323%
366985	3756358	18.40954	0	0	1.8	1-HR	ALL	1ST	96020407	18.34323	-0.360%
366853	3756663	15.95507	0	0	1.8	1-HR	ALL	1ST	96012907	15.88919	-0.413%
366902	3756692	16.19817	0	0	1.8	1-HR	ALL	1ST	96012907	16.12802	-0.433%
366876	3756760	15.69802	0	0	1.8	1-HR	ALL	1ST	96012907	15.62346	-0.475%
366813	3756739	15.40201	0	0	1.8	1-HR	ALL	1ST	96012907	15.33210	-0.454%
366677	3757025	12.24120	0	0	1.8	1-HR	ALL	1ST	96012907	12.18597	-0.451%
366536	3757322	10.27616	0	0	1.8	1-HR	ALL	1ST	96020207	10.23377	-0.413%
366437	3757531	9.26315	0	0	1.8	1-HR	ALL	1ST	96020207	9.23110	-0.346%
366487	3757537	9.34914	0	0	1.8	1-HR	ALL	1ST	96020207	9.31759	-0.337%
366624	3757468	10.06327	0	0	1.8	1-HR	ALL	1ST	96020207	10.02735	-0.357%
366644	3757531	9.75296	0	0	1.8	1-HR	ALL	1ST	96020207	9.72159	-0.322%
366777	3757520	10.13791	0	0	1.8	1-HR	ALL	1ST	96020207	10.10655	-0.309%
366999	3757642	9.30916	0	0	1.8	1-HR	ALL	1ST	96020207	9.28948	-0.211%
367174	3757740	8.04064	0	0	1.8	1-HR	ALL	1ST	96020207	8.02693	-0.171%
367291	3757694	8.55584	0	0	1.8	1-HR	ALL	1ST	96020207	8.54084	-0.175%
367413	3757695	9.34855	0	0	1.8	1-HR	ALL	1ST	96020108	9.29919	-0.528%
367410	3757736	9.56942	0	0	1.8	1-HR	ALL	1ST	96020108	9.52146	-0.501%
367518	3757796	11.13206	0	0	1.8	1-HR	ALL	1ST	96020108	11.08520	-0.421%
367539	3757802	11.40841	0	0	1.8	1-HR	ALL	1ST	96020108	11.36153	-0.411%
367609	3757677	11.70804	0	0	1.8	1-HR	ALL	1ST	96020108	11.65618	-0.443%
367769	3757644	13.87499	0	0	1.8	1-HR	ALL	1ST	96020108	13.81935	-0.401%
367775	3757719	14.18357	0	0	1.8	1-HR	ALL	1ST	96020108	14.13141	-0.368%
367809	3757835	14.60345	0	0	1.8	1-HR	ALL	1ST	96020108	14.55803	-0.311%
367807	3757936	14.24760	0	0	1.8	1-HR	ALL	1ST	96020108	14.20879	-0.272%
367775	3757959	13.89407	0	0	1.8	1-HR	ALL	1ST	96020108	13.85584	-0.275%
367798	3758011	13.79563	0	0	1.8	1-HR	ALL	1ST	96020108	13.76158	-0.247%
367914	3757962	14.80297	0	0	1.8	1-HR	ALL	1ST	96020108	14.77016	-0.222%
367905	3757930	14.98697	0	0	1.8	1-HR	ALL	1ST	96020108	14.95135	-0.238%
368109	3757840	17.01262	0	0	1.8	1-HR	ALL	1ST	96020108	16.97998	-0.192%
368233	3757790	18.17273	0	0	1.8	1-HR	ALL	1ST	96020108	18.14334	-0.162%
368309	3757762	18.79460	0	0	1.8	1-HR	ALL	1ST	96020108	18.76746	-0.144%
368603	3757765	17.15904	0	0	1.8	1-HR	ALL	1ST	96032207	17.09411	-0.378%
368604	3757719	17.61820	0	0	1.8	1-HR	ALL	1ST	96020108	17.59843	-0.112%
368770	3757799	23.31466	0	0	1.8	1-HR	ALL	1ST	96032207	23.25272	-0.266%
369017	3757954	23.15390	0	0	1.8	1-HR	ALL	1ST	96032207	23.13284	-0.091%
369080	3757864	24.64208	0	0	1.8	1-HR	ALL	1ST	96032207	24.62365	-0.075%
369224	3757952	18.91131	0	0	1.8	1-HR	ALL	1ST	96032207	18.89874	-0.066%
369409	3757730	15.57565	0	0	1.8	1-HR	ALL	1ST	96032207	15.56217	-0.087%
369454	3757776	12.94317	0	0	1.8	1-HR	ALL	1ST	96040807	12.91845	-0.191%
369265	3757997	16.76336	0	0	1.8	1-HR	ALL	1ST	96032207	16.75176	-0.069%
369452	3758128	9.22515	0	0	1.8	1-HR	ALL	1ST	96032207	9.21588	-0.100%
369460	3758394	7.40384	0	0	1.8	1-HR	ALL	1ST	96032207	7.39628	-0.102%
369853	3758394	7.02204	0	0	1.8	1-HR	ALL	1ST	96040807	7.00929	-0.182%
369850	3758078	8.69373	0	0	1.8	1-HR	ALL	1ST	96092907	8.79203	1.131%
370299	3758078	13.88960	0	0	1.8	1-HR	ALL	1ST	96092907	13.85789	-0.228%
370298	3757963	15.76256	0	0	1.8	1-HR	ALL	1ST	96092907	15.73042	-0.204%
370382	3757966	15.53124	0	0	1.8	1-HR	ALL	1ST	96092907	15.50043	-0.198%
370510	3758027	14.33880	0	0	1.8	1-HR	ALL	1ST	96092907	14.31002	-0.201%
370506	3758088	13.79471	0	0	1.8	1-HR	ALL	1ST	96092907	13.76587	-0.209%
370886	3758089	11.87837	0	0	1.8	1-HR	ALL	1ST	96100807	11.85150	-0.226%
370885	3757751	13.01334	0	0	1.8	1-HR	ALL	1ST	96100807	12.98692	-0.203%
370907	3757702	12.64147	0	0	1.8	1-HR	ALL	1ST	96100807	12.61569	-0.204%
370945	3757670	12.07000	0	0	1.8	1-HR	ALL	1ST	96100807	12.04516	-0.206%
371046	3757668	10.90681	0	0	1.8	1-HR	ALL	1ST	96100807	10.88406	-0.209%
371046	3757585	10.96948	0	0	1.8	1-HR	ALL	1ST	96022008	10.94444	-0.228%
371122	3757584	10.57689	0	0	1.8	1-HR	ALL	1ST	96022008	10.55252	-0.230%
371193	3757720	9.71091	0	0	1.8	1-HR	ALL	1ST	96022008	9.71431	0.035%
371254	3757762	9.37284	0	0	1.8	1-HR	ALL	1ST	96100807	9.35302	-0.211%
371264	3757783	9.39732	0	0	1.8	1-HR	ALL	1ST	96100807	9.37739	-0.212%
371372	3757782	8.83451	0	0	1.8	1-HR	ALL	1ST	96022008	8.81236	-0.251%
371399	3757806	8.65973	0	0	1.8	1-HR	ALL	1ST	96022008	8.63781	-0.253%
371798	3758080	6.89754	0	0	1.8	1-HR	ALL	1ST	96100807	6.88278	-0.214%
371908	3757934	6.93209	0	0	1.8	1-HR	ALL	1ST	96022008	6.91335	-0.270%
371964	3757922	6.80334	0	0	1.8	1-HR	ALL	1ST	96022008	6.78492	-0.271%
371970	3757842	6.84554	0	0	1.8	1-HR	ALL	1ST	96022008	6.82722	-0.268%
372023	3757843	6.68829	0	0	1.8	1-HR	ALL	1ST	96022008	6.67032	-0.269%
372020	3757552	6.99502	0	0	1.8	1-HR	ALL	1ST	96021407	6.97771	-0.247%
372002	3757140	8.86757	0	0	1.8	1-HR	ALL	1ST	96021407	8.84553	-0.249%
371514	3757136	10.86363	0	0	1.8	1-HR	ALL	1ST	96021407	10.83819	-0.234%
371035	3757133	13.53649	0	0	1.8	1-HR	ALL	1ST	96021407	13.50595	-0.226%
371034	3757085	13.88721	0	0	1.8	1-HR	ALL	1ST	96021407	13.85670	-0.220%

Table B-6

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel and Gasoline, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                   DFAULT ELEV   FLGPOL  
 \* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL  
 \* FOR A TOTAL OF 120 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Gas Peak + Dsl Peak + Paving + Painting	Difference with All
370764	3757087	16.04237	0	0	1.8	1-HR	ALL	1ST	96021407	16.00772	-0.216%
370754	3756818	16.88587	0	0	1.8	1-HR	ALL	1ST	96021407	16.85396	-0.189%
371031	3756807	14.05702	0	0	1.8	1-HR	ALL	1ST	96021407	14.02819	-0.205%
371033	3756780	13.88939	0	0	1.8	1-HR	ALL	1ST	96021407	13.86058	-0.207%
371483	3756770	10.61285	0	0	1.8	1-HR	ALL	1ST	96021407	10.58746	-0.239%
371817	3756763	8.86520	0	0	1.8	1-HR	ALL	1ST	96021407	8.84203	-0.261%
372274	3756753	7.07790	0	0	1.8	1-HR	ALL	1ST	96021407	7.05765	-0.286%
372713	3756743	5.80895	0	0	1.8	1-HR	ALL	1ST	96021407	5.79146	-0.301%
372703	3756553	4.94245	0	0	1.8	1-HR	ALL	1ST	96021407	4.92714	-0.310%
372819	3756549	4.69409	0	0	1.8	1-HR	ALL	1ST	96021407	4.67961	-0.308%
372814	3756455	4.24123	0	0	1.8	1-HR	ALL	1ST	96021407	4.22830	-0.305%
372797	3756368	3.82817	0	0	1.8	1-HR	ALL	1ST	96021407	3.81677	-0.298%
372705	3756372	3.98965	0	0	1.8	1-HR	ALL	1ST	96021407	3.97759	-0.302%
372706	3756327	3.74997	0	0	1.8	1-HR	ALL	1ST	96021407	3.73883	-0.297%
372927	3756319	3.41126	0	0	1.8	1-HR	ALL	1ST	96021407	3.40150	-0.286%
372926	3756245	3.06357	0	0	1.8	1-HR	ALL	1ST	96021407	3.05513	-0.275%
373457	3756236	2.52070	0	0	1.8	1-HR	ALL	1ST	96021407	2.51438	-0.251%
373448	3755560	1.78124	0	0	1.8	1-HR	ALL	1ST	96052101	1.77498	-0.351%
373222	3755569	1.87137	0	0	1.8	1-HR	ALL	1ST	96052101	1.86482	-0.350%
373219	3755705	1.95970	0	0	1.8	1-HR	ALL	1ST	96052101	1.95326	-0.329%
373135	3755704	2.00052	0	0	1.8	1-HR	ALL	1ST	96052101	1.99394	-0.329%
373131	3755567	1.90387	0	0	1.8	1-HR	ALL	1ST	96052101	1.89909	-0.251%
373054	3755563	1.94626	0	0	1.8	1-HR	ALL	1ST	96010208	1.96786	1.110%
373046	3755174	2.43387	0	0	1.8	1-HR	ALL	1ST	96010208	2.42925	-0.190%
372725	3755177	2.82668	0	0	1.8	1-HR	ALL	1ST	96010208	2.82057	-0.216%
372624	3755182	2.95710	0	0	1.8	1-HR	ALL	1ST	96010208	2.95048	-0.224%
372238	3755186	3.49871	0	0	1.8	1-HR	ALL	1ST	96010208	3.48970	-0.258%
371843	3755189	4.07392	0	0	1.8	1-HR	ALL	1ST	96010208	4.06214	-0.289%
371463	3755192	4.58415	0	0	1.8	1-HR	ALL	1ST	96010208	4.56965	-0.316%
371049	3755196	4.94886	0	0	1.8	1-HR	ALL	1ST	96010208	4.93142	-0.352%
371056	3755349	5.52973	0	0	1.8	1-HR	ALL	1ST	96010208	5.51271	-0.308%
371043	3755384	5.66756	0	0	1.8	1-HR	ALL	1ST	96010208	5.65055	-0.300%
371042	3755556	6.11664	0	0	1.8	1-HR	ALL	1ST	96010208	6.10050	-0.264%
370996	3755560	6.25343	0	0	1.8	1-HR	ALL	1ST	96010208	6.23683	-0.265%
371001	3755419	5.85408	0	0	1.8	1-HR	ALL	1ST	96010208	5.83682	-0.295%
370801	3755276	5.42193	0	0	1.8	1-HR	ALL	1ST	96010208	5.40263	-0.356%
370667	3755262	5.33778	0	0	1.8	1-HR	ALL	1ST	96010208	5.31730	-0.384%
370380	3755263	5.23274	0	0	1.8	1-HR	ALL	1ST	96010523	5.31234	1.521%
370076	3755265	7.58643	0	0	1.8	1-HR	ALL	1ST	96100707	7.57620	-0.135%
369787	3755267	9.72823	0	0	1.8	1-HR	ALL	1ST	96100707	9.70796	-0.208%
369498	3755268	10.18335	0	0	1.8	1-HR	ALL	1ST	96100707	10.15077	-0.320%
369194	3755270	15.01297	0	0	1.8	1-HR	ALL	1ST	96030107	14.98836	-0.164%
368889	3755272	23.55852	0	0	1.8	1-HR	ALL	1ST	96011009	23.51233	-0.196%
368569	3755273	33.85502	0	0	1.8	1-HR	ALL	1ST	96012607	33.75943	-0.282%
368275	3755275	31.71924	0	0	1.8	1-HR	ALL	1ST	96012607	31.59770	-0.383%
367936	3755213	25.59616	0	0	1.8	1-HR	ALL	1ST	96020707	25.49205	-0.407%



**Table B-7**  
**Profiles for PM10 for the CFTP**

**PM10 Profile 400 - Gasoline Vehicles - Catalyst**

Compound	%	
BROMINE	0.05	Ch
CALCIUM	0.55	?
CHLORINE	7	ACh
CHROMIUM	0.05	
CHROMIUM VI	0.00714	ChC
COBALT	0.05	?
COPPER	0.05	ACh
ELEM CARBON	20	
IRON	0.05	?
MANGANESE	0.05	Ch
NICKEL	0.05	AChC
NITRATES	0.55	
POTASSIUM	0.55	
SULFATES	45	ACh?
ZINC	0.05	Ch
OTHER	25.95	
AMMONIUM ION	0	
ARSENIC	0	
MERCURY	0	
VANADIUM	0	
ANTIMONY	0	
CADMIUM	0	
LEAD	0	
SELENIUM	0	
SILICON	0	

**PM10 Profile 425 - Diesel Vehicle Exhaust**

Compound	%	
ALUMINIUM	0.0176	
AMMONIUM ION	0.3369	ACh
ANTIMONY	0.0036	Ch
ARSENIC	0.0005	AChC
BARIUM	0.0251	?
BROMINE	0.0018	Ch
CADMIUM	0.004	ChC
CALCIUM	0.0548	?
ELEM CARBON	26.1005	
ORGANIC CARBON	68.8796	
CARBONATE ION	0.0119	
CHLORINE	0.0344	ACh
CHROMIUM	0.0012	
CHROMIUM VI	0.000171	ChC
COBALT	0.0011	?
COPPER	0.0025	ACh
GALLIUM	0.0008	
INDIUM	0.0057	
IRON	0.0525	?
LANTHANUM	0.0181	
LEAD	0.0042	C
MANGANESE	0.004	Ch
MERCURY	0.003	ACh
MOLYBDENUM	0.0006	
NICKEL	0.0019	AChC
NITRATES	0.0291	
PALLADIUM	0.0016	
PHOSPHOROUS	0.0127	
POTASSIUM	0.0154	
RUBIDIUM	0.0007	
SELENIUM	0.001	Ch
SILICON	0.2488	Ch?
SILVER	0.0028	
SODIUM	0.0224	
STRONTIUM	0.0014	?
SULFUR	1.3269	?
TIN	0.008	?
TITANIUM	0.0054	?
VANADIUM	0.0029	A
YTTRIUM	0.0012	
ZINC	0.0438	Ch
ZIRCONIUM	0.0008	?
UNKNOWN	2.71	
SULFATES	0	

**LEGEND**

Red = Added by CDM  
 Yellow Highlight = Calif TAC  
 Blue HL = Analyzed in LGB EIR  
 A = Acute  
 Ch = Chronic non-cancer  
 C = Cancer

**Table B-7**  
**Profiles for PM10 for the CFTP**

PM10 Profile 420 - Construction Dust			PM10 Profile 343 - Cement Prod./Concrete Batching		
Compound	%		Compound	%	
ALUMINUM	9.4913		BARIIUM	0.0200	?
AMMONIUM ION	0.0158	ACh	CADMIUM	0.0300	ChC
ANTIMONY	0.0019	Ch	CALCIUM	20.6100	?
ARSENIC	0.0024	AChC	CHROMIUM	0.0300	
BARIIUM	0.0952	?	CHROMIUM VI	0.004286	
BROMINE	0.0035	Ch	COPPER	0.0300	ACh
CADMIUM	0.0039	ChC	ELEM CARBON	14.9300	
CALCIUM	4.0304	?	IRON	0.3500	?
ELEM CARBON	0.5412		LEAD	0.0300	C
ORGANIC CARBON	5.7162		MANGANESE	0.0300	Ch
CARBONATE ION	0.3293		MOLYBDENUM	0.0300	
CHLORINE	0.425	ACh	NICKEL	0.0300	AChC
CHROMIUM	0.0262		NITRATES	0.3500	
CHROMIUM VI	0.003743	ChC	POTASSIUM	2.0000	
COBALT	0.0135	?	RUBIDIUM	0.0300	
COPPER	0.0138	ACh	SELENIUM	0.0300	Ch
GALLIUM	0.0008		SILICON	10.0000	Ch?
INDIUM	0.0031		SILVER	0.0300	
IRON	5.9254	?	SULFATES	23.7600	ACh?
LANTHANUM	0.0074		TITANIUM	0.0300	?
LEAD	0.0701	C	ZINC	0.0300	Ch
MANGANESE	0.115	Ch	OTHER	27.6100	
MERCURY	0.002	ACh	AMMONIUM ION	0	
MOLYBDENUM	0.0008		ANTIMONY	0	
NICKEL	0.0076	AChC	ARSENIC	0	
NITRATES	0.1104		BROMINE	0	
PALLADIUM	0.0009		CHLORINE	0	
PHOSPHOROUS	0.1979		MERCURY	0	
POTASSIUM	2.2941		VANADIUM	0	
RUBIDIUM	0.0163				
SELENIUM	0.0003	Ch			
SILICON	24.4	Ch?			
SILVER	0.001				
SODIUM	0.3091				
STRONTIUM	0.0398	?			
SULFUR	0.3715	?			
TIN	0.0041	?			
TITANIUM	0.5747	?			
VANADIUM	0.0331	A			
YTTRIUM	0.0033				
ZINC	0.0664	Ch			
ZIRCONIUM	0.0118	?			
UNKNOWN	44.7236				
SULFATES	0				





**Table B-8**

**AERMOD Output File for CFTP PM10 Runs, Gasoline, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                  DEFAULT ELEV   FLGPOL

\*   PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\*   FOR A TOTAL OF 120 RECEPTORS.

\*   FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE																			
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL
372.725	3,755,177	0.0076	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.800E-06	0.000E+00	5.320E-04	5.429E-07	3.800E-06	0.000E+00	3.800E-06	0.000E+00	3.800E-06
372.624	3,755,182	0.00795	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	3.975E-06	0.000E+00	5.565E-04	5.679E-07	3.975E-06	0.000E+00	3.975E-06	0.000E+00	3.975E-06
372.238	3,755,186	0.00943	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	4.715E-06	0.000E+00	6.601E-04	6.736E-07	4.715E-06	0.000E+00	4.715E-06	0.000E+00	4.715E-06
371,843	3,755,189	0.01101	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	5.505E-06	0.000E+00	7.707E-04	7.864E-07	5.505E-06	0.000E+00	5.505E-06	0.000E+00	5.505E-06
371,463	3,755,192	0.01246	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	6.230E-06	0.000E+00	8.722E-04	8.900E-07	6.230E-06	0.000E+00	6.230E-06	0.000E+00	6.230E-06
371,049	3,755,196	0.01357	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	6.785E-06	0.000E+00	9.499E-04	9.693E-07	6.785E-06	0.000E+00	6.785E-06	0.000E+00	6.785E-06
371,056	3,755,349	0.01499	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.495E-06	0.000E+00	1.049E-03	1.071E-06	7.495E-06	0.000E+00	7.495E-06	0.000E+00	7.495E-06
371,043	3,755,384	0.01534	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.670E-06	0.000E+00	1.074E-03	1.096E-06	7.670E-06	0.000E+00	7.670E-06	0.000E+00	7.670E-06
371,042	3,755,556	0.01639	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	8.195E-06	0.000E+00	1.147E-03	1.171E-06	8.195E-06	0.000E+00	8.195E-06	0.000E+00	8.195E-06
370,996	3,755,560	0.01677	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	8.385E-06	0.000E+00	1.174E-03	1.198E-06	8.385E-06	0.000E+00	8.385E-06	0.000E+00	8.385E-06
371,001	3,755,419	0.01582	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.910E-06	0.000E+00	1.107E-03	1.130E-06	7.910E-06	0.000E+00	7.910E-06	0.000E+00	7.910E-06
370,801	3,755,276	0.01489	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.445E-06	0.000E+00	1.042E-03	1.064E-06	7.445E-06	0.000E+00	7.445E-06	0.000E+00	7.445E-06
370,667	3,755,262	0.01476	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.380E-06	0.000E+00	1.033E-03	1.054E-06	7.380E-06	0.000E+00	7.380E-06	0.000E+00	7.380E-06
370,380	3,755,263	0.01431	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	7.155E-06	0.000E+00	1.002E-03	1.022E-06	7.155E-06	0.000E+00	7.155E-06	0.000E+00	7.155E-06
370,076	3,755,265	0.01985	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	9.925E-06	0.000E+00	1.390E-03	1.418E-06	9.925E-06	0.000E+00	9.925E-06	0.000E+00	9.925E-06
369,787	3,755,267	0.02547	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	1.274E-05	0.000E+00	1.783E-03	1.819E-06	1.274E-05	0.000E+00	1.274E-05	0.000E+00	1.274E-05
369,498	3,755,268	0.02676	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	1.338E-05	0.000E+00	1.873E-03	1.911E-06	1.338E-05	0.000E+00	1.338E-05	0.000E+00	1.338E-05
369,194	3,755,270	0.03922	0	0	1.8	1-HR	GASOLINE	1ST	96030107	0.000E+00	0.000E+00	0.000E+00	1.961E-05	0.000E+00	2.745E-03	2.801E-06	1.961E-05	0.000E+00	1.961E-05	0.000E+00	1.961E-05
368,889	3,755,272	0.06153	0	0	1.8	1-HR	GASOLINE	1ST	96011009	0.000E+00	0.000E+00	0.000E+00	3.077E-05	0.000E+00	4.307E-03	4.395E-06	3.077E-05	0.000E+00	3.077E-05	0.000E+00	3.077E-05
368,569	3,755,273	0.08834	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	4.417E-05	0.000E+00	6.184E-03	6.310E-06	4.417E-05	0.000E+00	4.417E-05	0.000E+00	4.417E-05
368,275	3,755,275	0.08274	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	4.137E-05	0.000E+00	5.792E-03	5.910E-06	4.137E-05	0.000E+00	4.137E-05	0.000E+00	4.137E-05
367,936	3,755,213	0.06762	0	0	1.8	1-HR	GASOLINE	1ST	96020707	0.000E+00	0.000E+00	0.000E+00	3.381E-05	0.000E+00	4.733E-03	4.830E-06	3.381E-05	0.000E+00	3.381E-05	0.000E+00	3.381E-05

Table B-8

AERMOD Output File for CFTP PM10 Runs, Gasoline, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,18)

X	Y	AVERAGE										SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)							
367,484	3,755,199	0.05475	0	0	1.8	1-HR	GASOLINE	1ST	96020707	0.000E+00	0.000E+00	2.464E-02	0.000E+00	2.738E-05		
367,301	3,755,623	0.06553	0	0	1.8	1-HR	GASOLINE	1ST	96011508	0.000E+00	0.000E+00	2.949E-02	0.000E+00	3.277E-05		
367,114	3,756,056	0.07271	0	0	1.8	1-HR	GASOLINE	1ST	96030207	0.000E+00	0.000E+00	3.272E-02	0.000E+00	3.636E-05		
366,985	3,756,358	0.0545	0	0	1.8	1-HR	GASOLINE	1ST	96020407	0.000E+00	0.000E+00	2.453E-02	0.000E+00	2.725E-05		
366,853	3,756,663	0.04343	0	0	1.8	1-HR	GASOLINE	1ST	96012907	0.000E+00	0.000E+00	1.954E-02	0.000E+00	2.172E-05		
366,902	3,756,692	0.04357	0	0	1.8	1-HR	GASOLINE	1ST	96012907	0.000E+00	0.000E+00	1.961E-02	0.000E+00	2.179E-05		
366,876	3,756,760	0.04172	0	0	1.8	1-HR	GASOLINE	1ST	96012907	0.000E+00	0.000E+00	1.877E-02	0.000E+00	2.086E-05		
366,813	3,756,739	0.04127	0	0	1.8	1-HR	GASOLINE	1ST	96012907	0.000E+00	0.000E+00	1.857E-02	0.000E+00	2.064E-05		
366,677	3,757,025	0.03205	0	0	1.8	1-HR	GASOLINE	1ST	96012907	0.000E+00	0.000E+00	1.442E-02	0.000E+00	1.603E-05		
366,536	3,757,322	0.02734	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.230E-02	0.000E+00	1.367E-05		
366,437	3,757,531	0.02442	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.099E-02	0.000E+00	1.221E-05		
366,487	3,757,537	0.0246	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.107E-02	0.000E+00	1.230E-05		
366,624	3,757,468	0.02644	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.190E-02	0.000E+00	1.322E-05		
366,644	3,757,531	0.02557	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.151E-02	0.000E+00	1.279E-05		
366,777	3,757,520	0.02652	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.193E-02	0.000E+00	1.326E-05		
366,999	3,757,642	0.02432	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.094E-02	0.000E+00	1.216E-05		
367,174	3,757,740	0.02101	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	9.455E-03	0.000E+00	1.051E-05		
367,291	3,757,694	0.02235	0	0	1.8	1-HR	GASOLINE	1ST	96020207	0.000E+00	0.000E+00	1.006E-02	0.000E+00	1.118E-05		
367,413	3,757,695	0.02506	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.128E-02	0.000E+00	1.253E-05		
367,410	3,757,736	0.02557	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.151E-02	0.000E+00	1.279E-05		
367,518	3,757,796	0.02935	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.321E-02	0.000E+00	1.468E-05		
367,539	3,757,802	0.03003	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.351E-02	0.000E+00	1.502E-05		
367,609	3,757,677	0.0308	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.386E-02	0.000E+00	1.540E-05		
367,769	3,757,644	0.03629	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.633E-02	0.000E+00	1.815E-05		
367,775	3,757,719	0.03708	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.669E-02	0.000E+00	1.854E-05		
367,809	3,757,835	0.03815	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.717E-02	0.000E+00	1.908E-05		
367,807	3,757,936	0.03723	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.675E-02	0.000E+00	1.862E-05		
367,775	3,757,959	0.03631	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.634E-02	0.000E+00	1.816E-05		
367,798	3,758,011	0.03605	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.622E-02	0.000E+00	1.803E-05		
367,914	3,757,962	0.03867	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.740E-02	0.000E+00	1.934E-05		
367,905	3,757,930	0.03915	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	1.762E-02	0.000E+00	1.958E-05		
368,109	3,757,840	0.04445	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	2.000E-02	0.000E+00	2.223E-05		
368,233	3,757,790	0.04749	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	2.137E-02	0.000E+00	2.375E-05		
368,309	3,757,762	0.04912	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	2.210E-02	0.000E+00	2.456E-05		
368,603	3,757,765	0.04504	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	2.027E-02	0.000E+00	2.252E-05		
368,604	3,757,719	0.04605	0	0	1.8	1-HR	GASOLINE	1ST	96020108	0.000E+00	0.000E+00	2.072E-02	0.000E+00	2.303E-05		
368,770	3,757,799	0.06098	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	2.744E-02	0.000E+00	3.049E-05		
369,017	3,757,954	0.06056	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	2.725E-02	0.000E+00	3.028E-05		
369,080	3,757,864	0.06445	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	2.900E-02	0.000E+00	3.223E-05		
369,224	3,757,952	0.04945	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	2.225E-02	0.000E+00	2.473E-05		
369,409	3,757,730	0.0407	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	1.832E-02	0.000E+00	2.035E-05		
369,454	3,757,776	0.03429	0	0	1.8	1-HR	GASOLINE	1ST	96040807	0.000E+00	0.000E+00	1.543E-02	0.000E+00	1.715E-05		
369,265	3,757,997	0.04383	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	1.972E-02	0.000E+00	2.192E-05		
369,452	3,758,128	0.0241	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	1.085E-02	0.000E+00	1.205E-05		
369,460	3,758,394	0.01935	0	0	1.8	1-HR	GASOLINE	1ST	96032207	0.000E+00	0.000E+00	8.708E-03	0.000E+00	9.675E-06		
369,853	3,758,394	0.01868	0	0	1.8	1-HR	GASOLINE	1ST	96040807	0.000E+00	0.000E+00	8.406E-03	0.000E+00	9.340E-06		
369,850	3,758,078	0.02471	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.112E-02	0.000E+00	1.236E-05		
370,299	3,758,078	0.03798	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.709E-02	0.000E+00	1.899E-05		
370,298	3,757,963	0.04285	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.928E-02	0.000E+00	2.143E-05		

Table B-8

AERMOD Output File for CFTP PM10 Runs, Gasoline, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,18)

X	Y	AVERAGE										SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)							
370,382	3,757,966	0.04215	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.897E-02	0.000E+00	2.108E-05		
370,510	3,758,027	0.0389	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.751E-02	0.000E+00	1.945E-05		
370,506	3,758,088	0.03751	0	0	1.8	1-HR	GASOLINE	1ST	96092907	0.000E+00	0.000E+00	1.688E-02	0.000E+00	1.876E-05		
370,886	3,758,089	0.03251	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.463E-02	0.000E+00	1.626E-05		
370,885	3,757,751	0.03536	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.591E-02	0.000E+00	1.768E-05		
370,907	3,757,702	0.03432	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.544E-02	0.000E+00	1.716E-05		
370,945	3,757,670	0.03276	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.474E-02	0.000E+00	1.638E-05		
371,046	3,757,668	0.02962	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.333E-02	0.000E+00	1.481E-05		
371,046	3,757,585	0.02999	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	1.350E-02	0.000E+00	1.500E-05		
371,122	3,757,584	0.02893	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	1.302E-02	0.000E+00	1.447E-05		
371,193	3,757,720	0.0266	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	1.197E-02	0.000E+00	1.330E-05		
371,254	3,757,762	0.02549	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.147E-02	0.000E+00	1.275E-05		
371,264	3,757,783	0.02556	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	1.150E-02	0.000E+00	1.278E-05		
371,372	3,757,782	0.02423	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	1.090E-02	0.000E+00	1.212E-05		
371,399	3,757,806	0.02376	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	1.069E-02	0.000E+00	1.188E-05		
371,798	3,758,080	0.01883	0	0	1.8	1-HR	GASOLINE	1ST	96100807	0.000E+00	0.000E+00	8.474E-03	0.000E+00	9.415E-05		
371,908	3,757,934	0.01908	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	8.586E-03	0.000E+00	9.540E-06		
371,964	3,757,922	0.01873	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	8.429E-03	0.000E+00	9.365E-06		
371,970	3,757,842	0.01884	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	8.478E-03	0.000E+00	9.420E-06		
372,023	3,757,843	0.01841	0	0	1.8	1-HR	GASOLINE	1ST	96022008	0.000E+00	0.000E+00	8.285E-03	0.000E+00	9.205E-06		
372,020	3,757,552	0.01908	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	8.586E-03	0.000E+00	9.540E-06		
372,002	3,757,140	0.02434	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.095E-02	0.000E+00	1.217E-05		
371,514	3,757,136	0.02965	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.334E-02	0.000E+00	1.483E-05		
371,035	3,757,133	0.03671	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.652E-02	0.000E+00	1.836E-05		
371,034	3,757,085	0.0377	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.697E-02	0.000E+00	1.885E-05		
370,764	3,757,087	0.04336	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.951E-02	0.000E+00	2.168E-05		
370,754	3,756,818	0.04606	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	2.073E-02	0.000E+00	2.303E-05		
371,031	3,756,807	0.03853	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.734E-02	0.000E+00	1.927E-05		
371,033	3,756,780	0.03812	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.715E-02	0.000E+00	1.906E-05		
371,483	3,756,770	0.02931	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.319E-02	0.000E+00	1.466E-05		
371,817	3,756,763	0.02458	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	1.106E-02	0.000E+00	1.229E-05		
372,274	3,756,753	0.01971	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	8.870E-03	0.000E+00	9.855E-06		
372,713	3,756,743	0.01624	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	7.308E-03	0.000E+00	8.120E-06		
372,703	3,756,553	0.01393	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	6.269E-03	0.000E+00	6.965E-06		
372,819	3,756,549	0.01324	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	5.958E-03	0.000E+00	6.620E-06		
372,814	3,756,455	0.01202	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	5.409E-03	0.000E+00	6.010E-06		
372,797	3,756,368	0.0109	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	4.905E-03	0.000E+00	5.450E-06		
372,705	3,756,372	0.01135	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	5.108E-03	0.000E+00	5.675E-06		
372,706	3,756,327	0.0107	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	4.815E-03	0.000E+00	5.350E-06		
372,927	3,756,319	0.00975	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	4.388E-03	0.000E+00	4.875E-06		
372,926	3,756,245	0.00879	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	3.956E-03	0.000E+00	4.395E-06		
373,457	3,756,236	0.00725	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	3.263E-03	0.000E+00	3.625E-06		
373,448	3,755,560	0.00493	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.219E-03	0.000E+00	2.465E-06		
373,222	3,755,569	0.00519	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.336E-03	0.000E+00	2.595E-06		
373,219	3,755,705	0.00539	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.426E-03	0.000E+00	2.695E-06		
373,135	3,755,704	0.0055	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.475E-03	0.000E+00	2.750E-06		
373,131	3,755,567	0.00528	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.376E-03	0.000E+00	2.640E-06		
373,054	3,755,563	0.00535	0	0	1.8	1-HR	GASOLINE	1ST	96052101	0.000E+00	0.000E+00	2.408E-03	0.000E+00	2.675E-06		
373,046	3,755,174	0.00654	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	2.943E-03	0.000E+00	3.270E-06		

Table B-8

AERMOD Output File for CFTP PM10 Runs, Gasoline, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE														
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC		
372,725	3,755,177	0.0076	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	3.420E-03	0.000E+00	3.800E-06		
372,624	3,755,182	0.00795	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	3.578E-03	0.000E+00	3.975E-06		
372,238	3,755,186	0.00943	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	4.244E-03	0.000E+00	4.715E-06		
371,843	3,755,189	0.01101	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	4.955E-03	0.000E+00	5.505E-06		
371,463	3,755,192	0.01246	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	5.607E-03	0.000E+00	6.230E-06		
371,049	3,755,196	0.01357	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.107E-03	0.000E+00	6.785E-06		
371,056	3,755,349	0.01499	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.746E-03	0.000E+00	7.495E-06		
371,043	3,755,384	0.01534	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.903E-03	0.000E+00	7.670E-06		
371,042	3,755,556	0.01639	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	7.376E-03	0.000E+00	8.195E-06		
370,996	3,755,560	0.01677	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	7.547E-03	0.000E+00	8.385E-06		
371,001	3,755,419	0.01582	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	7.119E-03	0.000E+00	7.910E-06		
370,801	3,755,276	0.01489	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.701E-03	0.000E+00	7.445E-06		
370,667	3,755,262	0.01476	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.642E-03	0.000E+00	7.380E-06		
370,380	3,755,263	0.01431	0	0	1.8	1-HR	GASOLINE	1ST	96010208	0.000E+00	0.000E+00	6.440E-03	0.000E+00	7.155E-06		
370,076	3,755,265	0.01985	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	8.933E-03	0.000E+00	9.925E-06		
369,787	3,755,267	0.02547	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	1.146E-02	0.000E+00	1.274E-05		
369,498	3,755,268	0.02676	0	0	1.8	1-HR	GASOLINE	1ST	96100707	0.000E+00	0.000E+00	1.204E-02	0.000E+00	1.338E-05		
369,194	3,755,270	0.03922	0	0	1.8	1-HR	GASOLINE	1ST	96030107	0.000E+00	0.000E+00	1.765E-02	0.000E+00	1.961E-05		
368,889	3,755,272	0.06153	0	0	1.8	1-HR	GASOLINE	1ST	96011009	0.000E+00	0.000E+00	2.769E-02	0.000E+00	3.077E-05		
368,569	3,755,273	0.08834	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	3.975E-02	0.000E+00	4.417E-05		
368,275	3,755,275	0.08274	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	3.723E-02	0.000E+00	4.137E-05		
367,936	3,755,213	0.06762	0	0	1.8	1-HR	GASOLINE	1ST	96020707	0.000E+00	0.000E+00	3.043E-02	0.000E+00	3.381E-05		







Table B-9

AERMOD Output File for CFTP PM10 Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV   FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*                    FOR A TOTAL OF 120 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE																		
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY
372.725	3,755,177	0.47717	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.608E-03	1.718E-05	2.386E-06	8.589E-06	1.909E-05	1.641E-04	8.180E-07	1.193E-05	2.004E-05	1.909E-05	1.432E-05
372.624	3,755,182	0.49944	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.683E-03	1.798E-05	2.497E-06	8.990E-06	1.998E-05	1.718E-04	8.562E-07	1.249E-05	2.098E-05	1.998E-05	1.498E-05
372.238	3,755,186	0.59274	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.997E-03	2.134E-05	2.964E-06	1.067E-05	2.371E-05	2.039E-04	1.016E-06	1.482E-05	2.490E-05	2.371E-05	1.778E-05
371.843	3,755,189	0.69315	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.335E-03	2.495E-05	3.466E-06	1.248E-05	2.773E-05	2.384E-04	1.188E-06	1.733E-05	2.911E-05	2.773E-05	2.079E-05
371.463	3,755,192	0.78462	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.643E-03	2.825E-05	3.923E-06	1.412E-05	3.138E-05	2.699E-04	1.345E-06	1.962E-05	3.295E-05	3.138E-05	2.354E-05
371.049	3,755,196	0.8559	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.884E-03	3.081E-05	4.280E-06	1.541E-05	3.424E-05	2.944E-04	1.467E-06	2.140E-05	3.595E-05	3.424E-05	2.568E-05
371.056	3,755,349	0.94424	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.181E-03	3.399E-05	4.721E-06	1.700E-05	3.777E-05	3.248E-04	1.619E-06	2.361E-05	3.966E-05	3.777E-05	2.833E-05
371.043	3,755,384	0.96564	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.253E-03	3.476E-05	4.828E-06	1.738E-05	3.863E-05	3.322E-04	1.655E-06	2.414E-05	4.056E-05	3.863E-05	2.897E-05
371.042	3,755,556	1.03115	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.474E-03	3.712E-05	5.156E-06	1.856E-05	4.125E-05	3.547E-04	1.768E-06	2.578E-05	4.331E-05	4.125E-05	3.093E-05
370.996	3,755,560	1.05456	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.553E-03	3.796E-05	5.273E-06	1.898E-05	4.218E-05	3.628E-04	1.808E-06	2.636E-05	4.429E-05	4.218E-05	3.164E-05
371.001	3,755,419	0.99579	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.355E-03	3.585E-05	4.979E-06	1.792E-05	3.983E-05	3.426E-04	1.707E-06	2.489E-05	4.182E-05	3.983E-05	2.987E-05
370.801	3,755,276	0.93893	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.163E-03	3.380E-05	4.695E-06	1.690E-05	3.756E-05	3.230E-04	1.610E-06	2.347E-05	3.944E-05	3.756E-05	2.817E-05
370.667	3,755,262	0.93156	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.138E-03	3.354E-05	4.658E-06	1.677E-05	3.726E-05	3.205E-04	1.597E-06	2.329E-05	3.913E-05	3.726E-05	2.795E-05
370.380	3,755,263	0.90502	0	0	1.8	1-HR	DIESEL	1ST	96010208	3.049E-03	3.258E-05	4.525E-06	1.629E-05	3.620E-05	3.113E-04	1.551E-06	2.263E-05	3.801E-05	3.620E-05	2.715E-05
370.076	3,755,265	1.24357	0	0	1.8	1-HR	DIESEL	1ST	96100707	4.190E-03	4.477E-05	6.218E-06	2.238E-05	4.974E-05	4.278E-04	2.132E-06	3.109E-05	5.223E-05	4.974E-05	3.731E-05
369.787	3,755,267	1.59972	0	0	1.8	1-HR	DIESEL	1ST	96100707	5.389E-03	5.759E-05	7.999E-06	2.879E-05	6.399E-05	5.503E-04	2.742E-06	3.999E-05	6.719E-05	6.399E-05	4.799E-05
369.498	3,755,268	1.68629	0	0	1.8	1-HR	DIESEL	1ST	96100707	5.681E-03	6.071E-05	8.431E-06	3.035E-05	6.745E-05	5.801E-04	2.891E-06	4.216E-05	7.082E-05	6.745E-05	5.059E-05
369.194	3,755,270	2.45987	0	0	1.8	1-HR	DIESEL	1ST	96030107	8.287E-03	8.856E-05	1.230E-05	4.428E-05	9.839E-05	8.462E-04	4.217E-06	6.150E-05	1.033E-04	9.839E-05	7.380E-05
368.889	3,755,272	3.86272	0	0	1.8	1-HR	DIESEL	1ST	96011009	1.301E-02	1.391E-04	1.931E-05	6.953E-05	1.545E-04	1.329E-03	6.622E-06	9.657E-05	1.622E-04	1.545E-04	1.159E-04
368.569	3,755,273	5.56375	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.874E-02	2.003E-04	2.782E-05	1.001E-04	2.226E-04	1.914E-03	9.538E-06	1.391E-04	2.337E-04	2.226E-04	1.669E-04
368.275	3,755,275	5.22358	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.760E-02	1.880E-04	2.612E-05	9.402E-05	2.089E-04	1.797E-03	8.955E-06	1.306E-04	2.194E-04	2.089E-04	1.567E-04
367.936	3,755,213	4.27297	0	0	1.8	1-HR	DIESEL	1ST	96020707	1.440E-02	1.538E-04	2.136E-05	7.691E-05	1.709E-04	1.470E-03	7.325E-06	1.068E-04	1.795E-04	1.709E-04	1.282E-04

**Table B-9**  
**AERMOD Output File for CFTP PM10 Runs, Diesel, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC            DFAULT ELEV   FLGPOL  
 \*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL  
 \*            FOR A TOTAL OF 120 RECEPTORS.  
 \*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE														
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	DIESEL PM
367,484	3,755,199	3.45882	0	0	1.8	1-HR	DIESEL	1ST	96020707	6.572E-05	3.459E-05	8.606E-03	0.000E+00	1.003E-04	1.515E-03	3.459E+00
367,301	3,755,623	4.11903	0	0	1.8	1-HR	DIESEL	1ST	96011508	7.826E-05	4.119E-05	1.025E-02	0.000E+00	1.195E-04	1.804E-03	4.119E+00
367,114	3,756,056	4.56235	0	0	1.8	1-HR	DIESEL	1ST	96030207	8.668E-05	4.562E-05	1.135E-02	0.000E+00	1.323E-04	1.998E-03	4.562E+00
366,985	3,756,358	3.42831	0	0	1.8	1-HR	DIESEL	1ST	96020407	6.514E-05	3.428E-05	8.530E-03	0.000E+00	9.942E-05	1.502E-03	3.428E+00
366,853	3,756,663	2.74237	0	0	1.8	1-HR	DIESEL	1ST	96012907	5.211E-05	2.742E-05	6.823E-03	0.000E+00	7.953E-05	1.201E-03	2.742E+00
366,902	3,756,692	2.7541	0	0	1.8	1-HR	DIESEL	1ST	96012907	5.233E-05	2.754E-05	6.852E-03	0.000E+00	7.987E-05	1.206E-03	2.754E+00
366,876	3,756,760	2.64193	0	0	1.8	1-HR	DIESEL	1ST	96012907	5.020E-05	2.642E-05	6.573E-03	0.000E+00	7.662E-05	1.157E-03	2.642E+00
366,813	3,756,739	2.61061	0	0	1.8	1-HR	DIESEL	1ST	96012907	4.960E-05	2.611E-05	6.495E-03	0.000E+00	7.571E-05	1.143E-03	2.611E+00
366,677	3,757,025	2.02887	0	0	1.8	1-HR	DIESEL	1ST	96012907	3.855E-05	2.029E-05	5.048E-03	0.000E+00	5.884E-05	8.886E-04	2.029E+00
366,536	3,757,322	1.72769	0	0	1.8	1-HR	DIESEL	1ST	96020207	3.283E-05	1.728E-05	4.298E-03	0.000E+00	5.010E-05	7.567E-04	1.728E+00
366,437	3,757,531	1.53983	0	0	1.8	1-HR	DIESEL	1ST	96020207	2.926E-05	1.540E-05	3.831E-03	0.000E+00	4.466E-05	6.744E-04	1.540E+00
366,487	3,757,537	1.55094	0	0	1.8	1-HR	DIESEL	1ST	96020207	2.947E-05	1.551E-05	3.859E-03	0.000E+00	4.498E-05	6.793E-04	1.551E+00
366,624	3,757,468	1.66799	0	0	1.8	1-HR	DIESEL	1ST	96020207	3.169E-05	1.668E-05	4.150E-03	0.000E+00	4.837E-05	7.306E-04	1.668E+00
366,644	3,757,531	1.61113	0	0	1.8	1-HR	DIESEL	1ST	96020207	3.061E-05	1.611E-05	4.008E-03	0.000E+00	4.672E-05	7.057E-04	1.611E+00
366,777	3,757,520	1.67071	0	0	1.8	1-HR	DIESEL	1ST	96020207	3.174E-05	1.671E-05	4.157E-03	0.000E+00	4.845E-05	7.318E-04	1.671E+00
366,999	3,757,642	1.52666	0	0	1.8	1-HR	DIESEL	1ST	96020207	2.901E-05	1.527E-05	3.798E-03	0.000E+00	4.427E-05	6.687E-04	1.527E+00
367,174	3,757,740	1.31699	0	0	1.8	1-HR	DIESEL	1ST	96020207	2.502E-05	1.317E-05	3.277E-03	0.000E+00	3.819E-05	5.768E-04	1.317E+00
367,291	3,757,694	1.40154	0	0	1.8	1-HR	DIESEL	1ST	96020207	2.663E-05	1.402E-05	3.487E-03	0.000E+00	4.064E-05	6.139E-04	1.402E+00
367,413	3,757,695	1.58905	0	0	1.8	1-HR	DIESEL	1ST	96020108	3.019E-05	1.589E-05	3.954E-03	0.000E+00	4.608E-05	6.960E-04	1.589E+00
367,410	3,757,736	1.62024	0	0	1.8	1-HR	DIESEL	1ST	96020108	3.078E-05	1.620E-05	4.031E-03	0.000E+00	4.699E-05	7.097E-04	1.620E+00
367,518	3,757,796	1.8551	0	0	1.8	1-HR	DIESEL	1ST	96020108	3.525E-05	1.855E-05	4.615E-03	0.000E+00	5.380E-05	8.125E-04	1.855E+00
367,539	3,757,802	1.89768	0	0	1.8	1-HR	DIESEL	1ST	96020108	3.606E-05	1.898E-05	4.721E-03	0.000E+00	5.503E-05	8.312E-04	1.898E+00
367,609	3,757,677	1.94816	0	0	1.8	1-HR	DIESEL	1ST	96020108	3.702E-05	1.948E-05	4.847E-03	0.000E+00	5.650E-05	8.533E-04	1.948E+00
367,769	3,757,644	2.29216	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.355E-05	2.292E-05	5.703E-03	0.000E+00	6.647E-05	1.004E-03	2.292E+00
367,775	3,757,719	2.33949	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.445E-05	2.339E-05	5.821E-03	0.000E+00	6.785E-05	1.025E-03	2.339E+00
367,809	3,757,835	2.40291	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.566E-05	2.403E-05	5.978E-03	0.000E+00	6.968E-05	1.052E-03	2.403E+00
367,807	3,757,936	2.34156	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.449E-05	2.342E-05	5.826E-03	0.000E+00	6.791E-05	1.026E-03	2.342E+00
367,775	3,757,959	2.28412	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.340E-05	2.284E-05	5.683E-03	0.000E+00	6.624E-05	1.000E-03	2.284E+00
367,798	3,758,011	2.26564	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.305E-05	2.266E-05	5.637E-03	0.000E+00	6.570E-05	9.924E-04	2.266E+00
367,914	3,757,962	2.42832	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.614E-05	2.428E-05	6.042E-03	0.000E+00	7.042E-05	1.064E-03	2.428E+00
367,905	3,757,930	2.45962	0	0	1.8	1-HR	DIESEL	1ST	96020108	4.673E-05	2.460E-05	6.120E-03	0.000E+00	7.133E-05	1.077E-03	2.460E+00
368,109	3,757,840	2.78794	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.297E-05	2.788E-05	6.936E-03	0.000E+00	8.085E-05	1.221E-03	2.788E+00
368,233	3,757,790	2.97575	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.654E-05	2.976E-05	7.404E-03	0.000E+00	8.630E-05	1.303E-03	2.976E+00
368,309	3,757,762	3.07627	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.845E-05	3.076E-05	7.654E-03	0.000E+00	8.921E-05	1.347E-03	3.076E+00
368,603	3,757,765	2.84004	0	0	1.8	1-HR	DIESEL	1ST	96032207	5.396E-05	2.840E-05	7.066E-03	0.000E+00	8.236E-05	1.244E-03	2.840E+00
368,604	3,757,719	2.88221	0	0	1.8	1-HR	DIESEL	1ST	96020108	5.476E-05	2.882E-05	7.171E-03	0.000E+00	8.358E-05	1.262E-03	2.882E+00
368,770	3,757,799	3.83242	0	0	1.8	1-HR	DIESEL	1ST	96032207	7.282E-05	3.832E-05	9.535E-03	0.000E+00	1.111E-04	1.679E-03	3.832E+00
369,017	3,757,954	3.78639	0	0	1.8	1-HR	DIESEL	1ST	96032207	7.194E-05	3.786E-05	9.421E-03	0.000E+00	1.098E-04	1.658E-03	3.786E+00
369,080	3,757,864	4.02773	0	0	1.8	1-HR	DIESEL	1ST	96032207	7.653E-05	4.028E-05	1.002E-02	0.000E+00	1.168E-04	1.764E-03	4.028E+00
369,224	3,757,952	3.09142	0	0	1.8	1-HR	DIESEL	1ST	96032207	5.874E-05	3.091E-05	7.691E-03	0.000E+00	8.965E-05	1.354E-03	3.091E+00
369,409	3,757,730	2.54899	0	0	1.8	1-HR	DIESEL	1ST	96032207	4.843E-05	2.549E-05	6.342E-03	0.000E+00	7.392E-05	1.116E-03	2.549E+00
369,454	3,757,776	2.15001	0	0	1.8	1-HR	DIESEL	1ST	96040807	4.085E-05	2.150E-05	5.349E-03	0.000E+00	6.235E-05	9.417E-04	2.150E+00
369,265	3,757,997	2.74077	0	0	1.8	1-HR	DIESEL	1ST	96032207	5.207E-05	2.741E-05	6.819E-03	0.000E+00	7.948E-05	1.200E-03	2.741E+00
369,452	3,758,128	1.51019	0	0	1.8	1-HR	DIESEL	1ST	96032207	2.869E-05	1.510E-05	3.757E-03	0.000E+00	4.380E-05	6.615E-04	1.510E+00
369,460	3,758,394	1.21203	0	0	1.8	1-HR	DIESEL	1ST	96032207	2.303E-05	1.212E-05	3.016E-03	0.000E+00	3.515E-05	5.309E-04	1.212E+00
369,853	3,758,394	1.17158	0	0	1.8	1-HR	DIESEL	1ST	96040807	2.226E-05	1.172E-05	2.915E-03	0.000E+00	3.398E-05	5.132E-04	1.172E+00
369,850	3,758,078	1.55753	0	0	1.8	1-HR	DIESEL	1ST	96092907	2.959E-05	1.558E-05	3.875E-03	0.000E+00	4.517E-05	6.822E-04	1.558E+00
370,299	3,758,078	2.38393	0	0	1.8	1-HR	DIESEL	1ST	96092907	4.529E-05	2.384E-05	5.931E-03	0.000E+00	6.913E-05	1.044E-03	2.384E+00
370,298	3,757,963	2.68843	0	0	1.8	1-HR	DIESEL	1ST	96092907	5.108E-05	2.688E-05	6.689E-03	0.000E+00	7.796E-05	1.178E-03	2.688E+00

**Table B-9**  
**AERMOD Output File for CFTP PM10 Runs, Diesel, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

- \* CONC                    DFAULT ELEV   FLGPOL
- \*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL
- \*                    FOR A TOTAL OF 120 RECEPTORS.
- \*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE														
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	DIESEL PM
370,382	3,757,966	2.64383	0	0	1.8	1-HR	DIESEL	1ST	96092907	5.023E-05	2.644E-05	6.578E-03	0.000E+00	7.667E-05	1.158E-03	2.644E+00
370,510	3,758,027	2.4408	0	0	1.8	1-HR	DIESEL	1ST	96092907	4.638E-05	2.441E-05	6.073E-03	0.000E+00	7.078E-05	1.069E-03	2.441E+00
370,506	3,758,088	2.35397	0	0	1.8	1-HR	DIESEL	1ST	96092907	4.473E-05	2.354E-05	5.857E-03	0.000E+00	6.827E-05	1.031E-03	2.354E+00
370,886	3,758,089	2.04141	0	0	1.8	1-HR	DIESEL	1ST	96100807	3.879E-05	2.041E-05	5.079E-03	0.000E+00	5.920E-05	8.941E-04	2.041E+00
370,885	3,757,751	2.21929	0	0	1.8	1-HR	DIESEL	1ST	96100807	4.217E-05	2.219E-05	5.522E-03	0.000E+00	6.436E-05	9.145E-04	2.219E+00
370,907	3,757,702	2.1547	0	0	1.8	1-HR	DIESEL	1ST	96100807	4.094E-05	2.155E-05	5.361E-03	0.000E+00	6.249E-05	9.438E-04	2.155E+00
370,945	3,757,670	2.05698	0	0	1.8	1-HR	DIESEL	1ST	96100807	3.908E-05	2.057E-05	5.118E-03	0.000E+00	5.965E-05	9.010E-04	2.057E+00
371,046	3,757,668	1.85967	0	0	1.8	1-HR	DIESEL	1ST	96100807	3.533E-05	1.860E-05	4.627E-03	0.000E+00	5.393E-05	8.145E-04	1.860E+00
371,046	3,757,585	1.88341	0	0	1.8	1-HR	DIESEL	1ST	96022008	3.578E-05	1.883E-05	4.686E-03	0.000E+00	5.462E-05	8.249E-04	1.883E+00
371,122	3,757,584	1.81722	0	0	1.8	1-HR	DIESEL	1ST	96022008	3.453E-05	1.817E-05	4.521E-03	0.000E+00	5.270E-05	7.959E-04	1.817E+00
371,193	3,757,720	1.67104	0	0	1.8	1-HR	DIESEL	1ST	96022008	3.175E-05	1.671E-05	4.158E-03	0.000E+00	4.846E-05	7.319E-04	1.671E+00
371,254	3,757,762	1.60164	0	0	1.8	1-HR	DIESEL	1ST	96022008	3.043E-05	1.602E-05	3.985E-03	0.000E+00	4.645E-05	7.015E-04	1.602E+00
371,264	3,757,783	1.60521	0	0	1.8	1-HR	DIESEL	1ST	96100807	3.050E-05	1.605E-05	3.994E-03	0.000E+00	4.655E-05	7.031E-04	1.605E+00
371,372	3,757,782	1.52275	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.893E-05	1.523E-05	3.789E-03	0.000E+00	4.416E-05	6.670E-04	1.523E+00
371,399	3,757,806	1.49316	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.837E-05	1.493E-05	3.715E-03	0.000E+00	4.330E-05	6.540E-04	1.493E+00
371,798	3,758,080	1.18261	0	0	1.8	1-HR	DIESEL	1ST	96100807	2.247E-05	1.183E-05	2.942E-03	0.000E+00	3.430E-05	5.180E-04	1.183E+00
371,908	3,757,934	1.19958	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.279E-05	1.200E-05	2.985E-03	0.000E+00	3.479E-05	5.254E-04	1.200E+00
371,964	3,757,922	1.17765	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.238E-05	1.178E-05	2.930E-03	0.000E+00	3.415E-05	5.158E-04	1.178E+00
371,970	3,757,842	1.1848	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.251E-05	1.185E-05	2.948E-03	0.000E+00	3.436E-05	5.189E-04	1.185E+00
372,023	3,757,843	1.158	0	0	1.8	1-HR	DIESEL	1ST	96022008	2.200E-05	1.158E-05	2.881E-03	0.000E+00	3.358E-05	5.072E-04	1.158E+00
372,020	3,757,552	1.19858	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.277E-05	1.199E-05	2.982E-03	0.000E+00	3.476E-05	5.250E-04	1.199E+00
372,002	3,757,140	1.52934	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.906E-05	1.529E-05	3.805E-03	0.000E+00	4.435E-05	6.699E-04	1.529E+00
371,514	3,757,136	1.86247	0	0	1.8	1-HR	DIESEL	1ST	96021407	3.539E-05	1.862E-05	4.634E-03	0.000E+00	5.401E-05	8.158E-04	1.862E+00
371,035	3,757,133	2.30497	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.379E-05	2.305E-05	5.735E-03	0.000E+00	6.684E-05	1.010E-03	2.305E+00
371,034	3,757,085	2.36704	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.497E-05	2.367E-05	5.889E-03	0.000E+00	6.864E-05	1.037E-03	2.367E+00
370,764	3,757,087	2.72195	0	0	1.8	1-HR	DIESEL	1ST	96021407	5.172E-05	2.722E-05	6.772E-03	0.000E+00	7.894E-05	1.192E-03	2.722E+00
370,754	3,756,818	2.88945	0	0	1.8	1-HR	DIESEL	1ST	96021407	5.490E-05	2.889E-05	7.189E-03	0.000E+00	8.379E-05	1.266E-03	2.889E+00
371,031	3,756,807	2.41803	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.594E-05	2.418E-05	6.016E-03	0.000E+00	7.012E-05	1.059E-03	2.418E+00
371,033	3,756,780	2.39228	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.545E-05	2.392E-05	5.952E-03	0.000E+00	6.938E-05	1.048E-03	2.392E+00
371,483	3,756,770	1.84124	0	0	1.8	1-HR	DIESEL	1ST	96021407	3.498E-05	1.841E-05	4.581E-03	0.000E+00	5.340E-05	8.065E-04	1.841E+00
371,817	3,756,763	1.54509	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.936E-05	1.545E-05	3.844E-03	0.000E+00	4.481E-05	6.767E-04	1.545E+00
372,274	3,756,753	1.2402	0	0	1.8	1-HR	DIESEL	1ST	96021407	2.356E-05	1.240E-05	3.086E-03	0.000E+00	3.597E-05	5.432E-04	1.240E+00
372,713	3,756,743	1.0222	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.942E-05	1.022E-05	2.543E-03	0.000E+00	2.964E-05	4.477E-04	1.022E+00
372,703	3,756,553	0.87693	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.666E-05	8.769E-06	2.182E-03	0.000E+00	2.543E-05	3.841E-04	8.769E-01
372,819	3,756,549	0.83356	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.584E-05	8.336E-06	2.074E-03	0.000E+00	2.417E-05	3.651E-04	8.336E-01
372,814	3,756,455	0.75651	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.437E-05	7.565E-06	1.882E-03	0.000E+00	2.194E-05	3.314E-04	7.565E-01
372,797	3,756,368	0.68589	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.303E-05	6.859E-06	1.706E-03	0.000E+00	1.989E-05	3.004E-04	6.859E-01
372,705	3,756,372	0.71446	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.357E-05	7.145E-06	1.778E-03	0.000E+00	2.072E-05	3.129E-04	7.145E-01
372,706	3,756,327	0.67328	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.279E-05	6.733E-06	1.675E-03	0.000E+00	1.953E-05	2.949E-04	6.733E-01
372,927	3,756,319	0.61296	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.165E-05	6.130E-06	1.525E-03	0.000E+00	1.778E-05	2.685E-04	6.130E-01
372,926	3,756,245	0.55287	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.050E-05	5.529E-06	1.376E-03	0.000E+00	1.603E-05	2.422E-04	5.529E-01
373,457	3,756,236	0.45529	0	0	1.8	1-HR	DIESEL	1ST	96021407	8.651E-06	4.553E-06	1.133E-03	0.000E+00	1.320E-05	1.994E-04	4.553E-01
373,448	3,755,560	0.31086	0	0	1.8	1-HR	DIESEL	1ST	96052101	5.906E-06	3.109E-06	7.734E-04	0.000E+00	9.015E-06	1.362E-04	3.109E-01
373,222	3,755,569	0.3269	0	0	1.8	1-HR	DIESEL	1ST	96052101	6.211E-06	3.269E-06	8.133E-04	0.000E+00	9.480E-06	1.432E-04	3.269E-01
373,219	3,755,705	0.33959	0	0	1.8	1-HR	DIESEL	1ST	96052101	6.452E-06	3.396E-06	8.449E-04	0.000E+00	9.848E-06	1.487E-04	3.396E-01
373,135	3,755,704	0.34681	0	0	1.8	1-HR	DIESEL	1ST	96052101	6.589E-06	3.468E-06	8.629E-04	0.000E+00	1.006E-05	1.519E-04	3.468E-01
373,131	3,755,567	0.33284	0	0	1.8	1-HR	DIESEL	1ST	96052101	6.324E-06	3.328E-06	8.281E-04	0.000E+00	9.652E-06	1.458E-04	3.328E-01
373,054	3,755,563	0.33753	0	0	1.8	1-HR	DIESEL	1ST	96052101	6.413E-06	3.375E-06	8.398E-04	0.000E+00	9.788E-06	1.478E-04	3.375E-01
373,046	3,755,174	0.41008	0	0	1.8	1-HR	DIESEL	1ST	96010208	7.792E-06	4.101E-06	1.020E-03	0.000E+00	1.189E-05	1.796E-04	4.101E-01

Table B-9

AERMOD Output File for CFTP PM10 Runs, Diesel, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,18)

X	Y	AVERAGE										NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	DIESEL PM
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)									
372,725	3,755,177	0.47717	0	0	1.8	1-HR	DIESEL	1ST	96010208	9.066E-06	4.772E-06	1.187E-03	0.000E+00	1.384E-05	2.090E-04	4.772E-01		
372,624	3,755,182	0.49944	0	0	1.8	1-HR	DIESEL	1ST	96010208	9.489E-06	4.994E-06	1.243E-03	0.000E+00	1.448E-05	2.188E-04	4.994E-01		
372,238	3,755,186	0.59274	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.126E-05	5.927E-06	1.475E-03	0.000E+00	1.719E-05	2.596E-04	5.927E-01		
371,843	3,755,189	0.69315	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.317E-05	6.932E-06	1.725E-03	0.000E+00	2.010E-05	3.036E-04	6.932E-01		
371,463	3,755,192	0.78462	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.491E-05	7.846E-06	1.952E-03	0.000E+00	2.275E-05	3.437E-04	7.846E-01		
371,049	3,755,196	0.8559	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.626E-05	8.559E-06	2.129E-03	0.000E+00	2.482E-05	3.749E-04	8.559E-01		
371,056	3,755,349	0.94424	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.794E-05	9.442E-06	2.349E-03	0.000E+00	2.738E-05	4.136E-04	9.442E-01		
371,043	3,755,384	0.96564	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.835E-05	9.656E-06	2.403E-03	0.000E+00	2.800E-05	4.230E-04	9.656E-01		
371,042	3,755,556	1.03115	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.959E-05	1.031E-05	2.566E-03	0.000E+00	2.990E-05	4.516E-04	1.031E+00		
370,996	3,755,560	1.05456	0	0	1.8	1-HR	DIESEL	1ST	96010208	2.004E-05	1.055E-05	2.624E-03	0.000E+00	3.058E-05	4.619E-04	1.055E+00		
371,001	3,755,419	0.99579	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.892E-05	9.958E-06	2.478E-03	0.000E+00	2.888E-05	4.362E-04	9.958E-01		
370,801	3,755,276	0.93893	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.784E-05	9.389E-06	2.336E-03	0.000E+00	2.723E-05	4.113E-04	9.389E-01		
370,667	3,755,262	0.93156	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.770E-05	9.316E-06	2.318E-03	0.000E+00	2.702E-05	4.080E-04	9.316E-01		
370,380	3,755,263	0.90502	0	0	1.8	1-HR	DIESEL	1ST	96010208	1.720E-05	9.050E-06	2.252E-03	0.000E+00	2.625E-05	3.964E-04	9.050E-01		
370,076	3,755,265	1.24357	0	0	1.8	1-HR	DIESEL	1ST	96100707	2.363E-05	1.244E-05	3.094E-03	0.000E+00	3.606E-05	5.447E-04	1.244E+00		
369,787	3,755,267	1.59972	0	0	1.8	1-HR	DIESEL	1ST	96100707	3.039E-05	1.600E-05	3.980E-03	0.000E+00	4.639E-05	7.007E-04	1.600E+00		
369,498	3,755,268	1.68629	0	0	1.8	1-HR	DIESEL	1ST	96100707	3.204E-05	1.686E-05	4.195E-03	0.000E+00	4.890E-05	7.386E-04	1.686E+00		
369,194	3,755,270	2.45987	0	0	1.8	1-HR	DIESEL	1ST	96030107	4.674E-05	2.460E-05	6.120E-03	0.000E+00	7.134E-05	1.077E-03	2.460E+00		
368,889	3,755,272	3.86272	0	0	1.8	1-HR	DIESEL	1ST	96011009	7.339E-05	3.863E-05	9.610E-03	0.000E+00	1.120E-04	1.692E-03	3.863E+00		
368,569	3,755,273	5.56375	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.057E-04	5.564E-05	1.384E-02	0.000E+00	1.613E-04	2.437E-03	5.564E+00		
368,275	3,755,275	5.22358	0	0	1.8	1-HR	DIESEL	1ST	96012607	9.925E-05	5.224E-05	1.300E-02	0.000E+00	1.515E-04	2.288E-03	5.224E+00		
367,936	3,755,213	4.27297	0	0	1.8	1-HR	DIESEL	1ST	96020707	8.119E-05	4.273E-05	1.063E-02	0.000E+00	1.239E-04	1.872E-03	4.273E+00		







Table B-10

AERMOD Output File for CFTP PM10 Runs, Fugitive, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE										AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)													
372,725	3,755,177	3.14888	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.975E-04	5.983E-05	7.557E-05	1.102E-04	1.228E-04	1.338E-02	1.179E-04	4.345E-04	2.207E-03	3.621E-03	6.298E-05		
372,624	3,755,182	3.3445	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	5.284E-04	6.355E-05	8.027E-05	1.171E-04	1.304E-04	1.421E-02	1.252E-04	4.615E-04	2.344E-03	3.846E-03	6.689E-05		
372,238	3,755,186	4.08683	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	6.457E-04	7.765E-05	9.808E-05	1.430E-04	1.594E-04	1.737E-02	1.530E-04	5.640E-04	2.865E-03	4.700E-03	8.174E-05		
371,843	3,755,189	4.65607	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	7.357E-04	8.847E-05	1.117E-04	1.630E-04	1.816E-04	1.979E-02	1.743E-04	6.425E-04	3.264E-03	5.354E-03	9.312E-05		
371,463	3,755,192	4.89216	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	7.730E-04	9.295E-05	1.174E-04	1.712E-04	1.908E-04	2.079E-02	1.831E-04	6.751E-04	3.429E-03	5.626E-03	9.784E-05		
371,049	3,755,196	4.67014	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	7.379E-04	8.873E-05	1.121E-04	1.635E-04	1.821E-04	1.985E-02	1.748E-04	6.445E-04	3.274E-03	5.371E-03	9.340E-05		
371,056	3,755,349	5.56921	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	8.799E-04	1.058E-04	1.337E-04	1.949E-04	2.172E-04	2.367E-02	2.084E-04	7.686E-04	3.904E-03	6.405E-03	1.114E-04		
371,043	3,755,384	5.73659	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	9.064E-04	1.090E-04	1.377E-04	2.008E-04	2.237E-04	2.438E-02	2.147E-04	7.916E-04	4.021E-03	6.597E-03	1.147E-04		
371,042	3,755,556	6.3181	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	9.983E-04	1.200E-04	1.516E-04	2.211E-04	2.464E-04	2.685E-02	2.365E-04	8.719E-04	4.429E-03	7.266E-03	1.264E-04		
370,996	3,755,560	6.40969	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	1.013E-03	1.218E-04	1.538E-04	2.243E-04	2.500E-04	2.724E-02	2.399E-04	8.845E-04	4.493E-03	7.371E-03	1.282E-04		
371,001	3,755,419	5.91013	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	9.338E-04	1.123E-04	1.418E-04	2.069E-04	2.305E-04	2.512E-02	2.212E-04	8.156E-04	4.143E-03	6.797E-03	1.182E-04		
370,801	3,755,276	4.89122	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	7.728E-04	9.293E-05	1.174E-04	1.712E-04	1.908E-04	2.079E-02	1.831E-04	6.750E-04	3.429E-03	5.625E-03	9.782E-05		
370,667	3,755,262	4.50067	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	7.111E-04	8.551E-05	1.080E-04	1.575E-04	1.755E-04	1.913E-02	1.685E-04	6.211E-04	3.155E-03	5.176E-03	9.001E-05		
370,380	3,755,263	5.01985	0	0	1.8	1-HR	FUG_DUST	1ST	96010523	7.931E-04	9.538E-05	1.205E-04	1.757E-04	1.958E-04	2.133E-02	1.879E-04	6.927E-04	3.519E-03	5.773E-03	1.004E-04		
370,076	3,755,265	7.41049	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	1.171E-03	1.408E-04	1.779E-04	2.594E-04	2.890E-04	3.149E-02	2.774E-04	1.023E-03	5.195E-03	8.522E-03	1.482E-04		
369,787	3,755,267	10.11085	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	1.598E-03	1.921E-04	2.427E-04	3.539E-04	3.943E-04	4.297E-02	3.784E-04	1.395E-03	7.088E-03	1.163E-02	2.022E-04		
369,498	3,755,268	10.40022	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	1.643E-03	1.976E-04	2.496E-04	3.640E-04	4.056E-04	4.420E-02	3.893E-04	1.435E-03	7.291E-03	1.196E-02	2.080E-04		
369,194	3,755,270	16.37001	0	0	1.8	1-HR	FUG_DUST	1ST	96030107	2.586E-03	3.110E-04	3.929E-04	5.730E-04	6.384E-04	6.957E-02	6.127E-04	2.259E-03	1.148E-02	1.883E-02	3.274E-04		
368,889	3,755,272	26.80606	0	0	1.8	1-HR	FUG_DUST	1ST	96011009	4.235E-03	5.093E-04	6.433E-04	9.382E-04	1.045E-03	1.139E-01	1.003E-03	3.699E-03	1.879E-02	3.083E-02	5.361E-04		
368,569	3,755,273	34.02201	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	5.375E-03	6.464E-04	8.165E-04	1.191E-03	1.327E-03	1.446E-01	1.273E-03	4.695E-03	2.385E-02	3.913E-02	6.804E-04		
368,275	3,755,275	35.9086	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	5.674E-03	6.823E-04	8.618E-04	1.257E-03	1.400E-03	1.526E-01	1.344E-03	4.955E-03	2.517E-02	4.129E-02	7.182E-04		
367,936	3,755,213	28.43571	0	0	1.8	1-HR	FUG_DUST	1ST	96020707	4.493E-03	5.403E-04	6.825E-04	9.952E-04	1.109E-03	1.209E-01	1.064E-03	3.924E-03	1.993E-02	3.270E-02	5.687E-04		

**Table B-10**  
**AERMOD Output File for CFTP PM10 Runs, Fugitive , Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                   DFault ELEV   FLGPOL  
 \*                         PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST  
 \*                         FOR A TOTAL OF 120 RECEPTORS.  
 \*                         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE							DATE(CONC)	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL							
367,484	3,755,199	13.14104	0	0	1.8	1-HR	FUG_DUST	1ST	96020707	9.987E-04	3.942E-05	3.206E+00	0.000E+00	4.350E-03	8.726E-03
367,301	3,755,623	17.20394	0	0	1.8	1-HR	FUG_DUST	1ST	96011508	1.307E-03	5.161E-05	4.198E+00	0.000E+00	5.695E-03	1.142E-02
367,114	3,756,056	17.29136	0	0	1.8	1-HR	FUG_DUST	1ST	96030207	1.314E-03	5.187E-05	4.219E+00	0.000E+00	5.723E-03	1.148E-02
366,985	3,756,358	15.78166	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	1.199E-03	4.734E-05	3.851E+00	0.000E+00	5.224E-03	1.048E-02
366,853	3,756,663	14.66464	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	1.115E-03	4.399E-05	3.578E+00	0.000E+00	4.854E-03	9.737E-03
366,902	3,756,692	14.79756	0	0	1.8	1-HR	FUG_DUST	1ST	96012907	1.125E-03	4.439E-05	3.611E+00	0.000E+00	4.898E-03	9.826E-03
366,876	3,756,760	14.63854	0	0	1.8	1-HR	FUG_DUST	1ST	96012907	1.113E-03	4.392E-05	3.572E+00	0.000E+00	4.845E-03	9.720E-03
366,813	3,756,739	14.38119	0	0	1.8	1-HR	FUG_DUST	1ST	96012907	1.093E-03	4.314E-05	3.509E+00	0.000E+00	4.760E-03	9.549E-03
366,677	3,757,025	12.31855	0	0	1.8	1-HR	FUG_DUST	1ST	96012907	9.362E-04	3.696E-05	3.006E+00	0.000E+00	4.077E-03	8.180E-03
366,536	3,757,322	10.52339	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.998E-04	3.157E-05	2.568E+00	0.000E+00	3.483E-03	6.988E-03
366,437	3,757,531	9.80278	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.450E-04	2.941E-05	2.392E+00	0.000E+00	3.245E-03	6.509E-03
366,487	3,757,537	9.85086	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.487E-04	2.955E-05	2.404E+00	0.000E+00	3.261E-03	6.541E-03
366,624	3,757,468	10.46924	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.957E-04	3.141E-05	2.554E+00	0.000E+00	3.465E-03	6.952E-03
366,644	3,757,531	10.13664	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.704E-04	3.041E-05	2.473E+00	0.000E+00	3.355E-03	6.731E-03
366,777	3,757,520	10.41404	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	7.915E-04	3.124E-05	2.541E+00	0.000E+00	3.447E-03	6.915E-03
366,999	3,757,642	8.74544	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	6.647E-04	2.624E-05	2.134E+00	0.000E+00	2.895E-03	5.807E-03
367,174	3,757,740	6.09825	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	4.635E-04	1.829E-05	1.488E+00	0.000E+00	2.019E-03	4.049E-03
367,291	3,757,694	6.59591	0	0	1.8	1-HR	FUG_DUST	1ST	96020207	5.013E-04	1.979E-05	1.609E+00	0.000E+00	2.183E-03	4.380E-03
367,413	3,757,695	7.60456	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	5.779E-04	2.281E-05	1.856E+00	0.000E+00	2.517E-03	5.049E-03
367,410	3,757,736	8.05866	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	6.125E-04	2.418E-05	1.966E+00	0.000E+00	2.667E-03	5.351E-03
367,518	3,757,796	10.47512	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	7.961E-04	3.143E-05	2.566E+00	0.000E+00	3.467E-03	6.955E-03
367,539	3,757,802	10.86882	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	8.260E-04	3.261E-05	2.652E+00	0.000E+00	3.598E-03	7.217E-03
367,609	3,757,677	10.7595	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	8.177E-04	3.228E-05	2.625E+00	0.000E+00	3.561E-03	7.144E-03
367,769	3,757,644	13.22719	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.005E-03	3.968E-05	3.227E+00	0.000E+00	4.378E-03	8.783E-03
367,775	3,757,719	13.89851	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.056E-03	4.170E-05	3.391E+00	0.000E+00	4.600E-03	9.229E-03
367,809	3,757,835	14.90911	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.133E-03	4.473E-05	3.638E+00	0.000E+00	4.935E-03	9.900E-03
367,807	3,757,936	14.8986	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.132E-03	4.470E-05	3.635E+00	0.000E+00	4.931E-03	9.893E-03
367,775	3,757,959	14.60142	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.110E-03	4.380E-05	3.563E+00	0.000E+00	4.833E-03	9.695E-03
367,798	3,758,011	14.59959	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.110E-03	4.380E-05	3.562E+00	0.000E+00	4.832E-03	9.694E-03
367,914	3,757,962	15.35952	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.167E-03	4.608E-05	3.748E+00	0.000E+00	5.084E-03	1.020E-02
367,905	3,757,930	15.54612	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.182E-03	4.664E-05	3.793E+00	0.000E+00	5.146E-03	1.032E-02
368,109	3,757,840	16.87984	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.283E-03	5.064E-05	4.119E+00	0.000E+00	5.587E-03	1.121E-02
368,233	3,757,790	17.33093	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.317E-03	5.199E-05	4.229E+00	0.000E+00	5.737E-03	1.151E-02
368,309	3,757,762	17.38386	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.321E-03	5.215E-05	4.242E+00	0.000E+00	5.754E-03	1.154E-02
368,603	3,757,765	13.36345	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	1.016E-03	4.009E-05	3.261E+00	0.000E+00	4.423E-03	8.873E-03
368,604	3,757,719	13.9258	0	0	1.8	1-HR	FUG_DUST	1ST	96020108	1.058E-03	4.178E-05	3.398E+00	0.000E+00	4.609E-03	9.247E-03
368,770	3,757,799	26.42155	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	2.008E-03	7.926E-05	6.447E+00	0.000E+00	8.746E-03	1.754E-02
369,017	3,757,954	22.68033	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	1.724E-03	6.804E-05	5.534E+00	0.000E+00	7.507E-03	1.506E-02
369,080	3,757,864	21.8498	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	1.661E-03	6.555E-05	5.331E+00	0.000E+00	7.232E-03	1.451E-02
369,224	3,757,952	14.62355	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	1.111E-03	4.387E-05	3.568E+00	0.000E+00	4.840E-03	9.710E-03
369,409	3,757,730	14.72411	0	0	1.8	1-HR	FUG_DUST	1ST	96040807	1.119E-03	4.417E-05	3.593E+00	0.000E+00	4.874E-03	9.777E-03
369,454	3,757,776	14.64421	0	0	1.8	1-HR	FUG_DUST	1ST	96040807	1.113E-03	4.393E-05	3.573E+00	0.000E+00	4.847E-03	9.724E-03
369,265	3,757,997	12.31685	0	0	1.8	1-HR	FUG_DUST	1ST	96032207	9.361E-04	3.695E-05	3.005E+00	0.000E+00	4.077E-03	8.178E-03
369,452	3,758,128	8.70434	0	0	1.8	1-HR	FUG_DUST	1ST	96011020	6.615E-04	2.611E-05	2.124E+00	0.000E+00	2.881E-03	5.780E-03
369,460	3,758,394	7.74633	0	0	1.8	1-HR	FUG_DUST	1ST	96011020	5.887E-04	2.324E-05	1.890E+00	0.000E+00	2.564E-03	5.144E-03
369,853	3,758,394	9.30334	0	0	1.8	1-HR	FUG_DUST	1ST	96040807	7.071E-04	2.791E-05	2.270E+00	0.000E+00	3.079E-03	6.177E-03
369,850	3,758,078	10.07831	0	0	1.8	1-HR	FUG_DUST	1ST	96040807	7.660E-04	3.023E-05	2.459E+00	0.000E+00	3.336E-03	6.692E-03
370,299	3,758,078	13.55911	0	0	1.8	1-HR	FUG_DUST	1ST	96092907	1.030E-03	4.068E-05	3.308E+00	0.000E+00	4.488E-03	9.003E-03
370,298	3,757,963	17.13237	0	0	1.8	1-HR	FUG_DUST	1ST	96092907	1.302E-03	5.140E-05	4.180E+00	0.000E+00	5.671E-03	1.138E-02

**Table B-10**  
**AERMOD Output File for CFTP PM10 Runs, Fugitive, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC            DEFAULT ELEV   FLGPOL  
 \*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST  
 \*            FOR A TOTAL OF 120 RECEPTORS.  
 \*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE							DATE(CONC)	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL							
370,382	3,757,966	17.83254	0	0	1.8	1-HR	FUG_DUST	1ST	96092907	1.355E-03	5.350E-05	4.351E+00	0.000E+00	5.903E-03	1.184E-02
370,510	3,758,027	17.0474	0	0	1.8	1-HR	FUG_DUST	1ST	96092907	1.296E-03	5.114E-05	4.160E+00	0.000E+00	5.643E-03	1.132E-02
370,506	3,758,088	16.12032	0	0	1.8	1-HR	FUG_DUST	1ST	96092907	1.225E-03	4.836E-05	3.933E+00	0.000E+00	5.336E-03	1.070E-02
370,886	3,758,089	13.78324	0	0	1.8	1-HR	FUG_DUST	1ST	96100807	1.048E-03	4.135E-05	3.363E+00	0.000E+00	4.562E-03	9.152E-03
370,885	3,757,751	13.99136	0	0	1.8	1-HR	FUG_DUST	1ST	96100807	1.063E-03	4.197E-05	3.414E+00	0.000E+00	4.631E-03	9.290E-03
370,907	3,757,702	13.10088	0	0	1.8	1-HR	FUG_DUST	1ST	96100807	9.957E-04	3.930E-05	3.197E+00	0.000E+00	4.336E-03	8.699E-03
370,945	3,757,670	12.16687	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	9.247E-04	3.650E-05	2.969E+00	0.000E+00	4.027E-03	8.079E-03
371,046	3,757,668	12.01438	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	9.131E-04	3.604E-05	2.932E+00	0.000E+00	3.977E-03	7.978E-03
371,046	3,757,585	12.51282	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	9.510E-04	3.754E-05	3.053E+00	0.000E+00	4.142E-03	8.309E-03
371,122	3,757,584	12.13004	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	9.219E-04	3.639E-05	2.960E+00	0.000E+00	4.015E-03	8.054E-03
371,193	3,757,720	11.24568	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	8.547E-04	3.374E-05	2.744E+00	0.000E+00	3.722E-03	7.467E-03
371,254	3,757,762	10.80285	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	8.210E-04	3.241E-05	2.636E+00	0.000E+00	3.576E-03	7.173E-03
371,264	3,757,783	10.61832	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	8.070E-04	3.185E-05	2.591E+00	0.000E+00	3.515E-03	7.051E-03
371,372	3,757,782	10.44439	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	7.938E-04	3.133E-05	2.548E+00	0.000E+00	3.457E-03	6.935E-03
371,399	3,757,806	10.24223	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	7.784E-04	3.073E-05	2.499E+00	0.000E+00	3.390E-03	6.801E-03
371,798	3,758,080	8.01839	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	6.094E-04	2.406E-05	1.956E+00	0.000E+00	2.654E-03	5.324E-03
371,908	3,757,934	8.62981	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	6.559E-04	2.589E-05	2.106E+00	0.000E+00	2.856E-03	5.730E-03
371,964	3,757,922	8.48711	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	6.450E-04	2.546E-05	2.071E+00	0.000E+00	2.809E-03	5.635E-03
371,970	3,757,842	8.40848	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	6.390E-04	2.523E-05	2.052E+00	0.000E+00	2.783E-03	5.583E-03
372,023	3,757,843	8.1957	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	6.229E-04	2.459E-05	2.000E+00	0.000E+00	2.713E-03	5.442E-03
372,020	3,757,552	6.50224	0	0	1.8	1-HR	FUG_DUST	1ST	96022008	4.942E-04	1.951E-05	1.587E+00	0.000E+00	2.152E-03	4.317E-03
372,002	3,757,140	9.64176	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	7.328E-04	2.893E-05	2.353E+00	0.000E+00	3.191E-03	6.402E-03
371,514	3,757,136	11.21125	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	8.521E-04	3.363E-05	2.736E+00	0.000E+00	3.711E-03	7.444E-03
371,035	3,757,133	13.51914	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	1.027E-03	4.056E-05	3.299E+00	0.000E+00	4.475E-03	8.977E-03
371,034	3,757,085	13.46655	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	1.023E-03	4.040E-05	3.286E+00	0.000E+00	4.457E-03	8.942E-03
370,764	3,757,087	15.56908	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	1.183E-03	4.671E-05	3.799E+00	0.000E+00	5.153E-03	1.034E-02
370,754	3,756,818	14.50306	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	1.102E-03	4.351E-05	3.539E+00	0.000E+00	4.801E-03	9.630E-03
371,031	3,756,807	13.00446	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	9.883E-04	3.901E-05	3.173E+00	0.000E+00	4.304E-03	8.635E-03
371,033	3,756,780	12.95212	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	9.844E-04	3.886E-05	3.160E+00	0.000E+00	4.287E-03	8.600E-03
371,483	3,756,770	10.33647	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	7.856E-04	3.101E-05	2.522E+00	0.000E+00	3.421E-03	6.863E-03
371,817	3,756,763	8.65424	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	6.577E-04	2.596E-05	2.112E+00	0.000E+00	2.865E-03	5.746E-03
372,274	3,756,753	6.72917	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	5.114E-04	2.019E-05	1.642E+00	0.000E+00	2.227E-03	4.468E-03
372,713	3,756,743	5.26287	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	4.000E-04	1.579E-05	1.284E+00	0.000E+00	1.742E-03	3.495E-03
372,703	3,756,553	3.49123	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	2.653E-04	1.047E-05	8.519E-01	0.000E+00	1.156E-03	2.318E-03
372,819	3,756,549	3.22491	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	2.451E-04	9.675E-06	7.869E-01	0.000E+00	1.067E-03	2.141E-03
372,814	3,756,455	2.48126	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.886E-04	7.444E-06	6.054E-01	0.000E+00	8.213E-04	1.648E-03
372,797	3,756,368	2.36938	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.801E-04	7.108E-06	5.781E-01	0.000E+00	7.843E-04	1.573E-03
372,705	3,756,372	2.42904	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.846E-04	7.287E-06	5.927E-01	0.000E+00	8.040E-04	1.613E-03
372,706	3,756,327	2.34393	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.781E-04	7.032E-06	5.719E-01	0.000E+00	7.758E-04	1.556E-03
372,927	3,756,319	2.20991	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.680E-04	6.630E-06	5.392E-01	0.000E+00	7.315E-04	1.467E-03
372,926	3,756,245	2.09657	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.593E-04	6.290E-06	5.116E-01	0.000E+00	6.940E-04	1.392E-03
373,457	3,756,236	1.80898	0	0	1.8	1-HR	FUG_DUST	1ST	96052201	1.375E-04	5.427E-06	4.414E-01	0.000E+00	5.988E-04	1.201E-03
373,448	3,755,560	1.92917	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.466E-04	5.788E-06	4.707E-01	0.000E+00	6.386E-04	1.281E-03
373,222	3,755,569	1.97078	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.498E-04	5.912E-06	4.809E-01	0.000E+00	6.523E-04	1.309E-03
373,219	3,755,705	2.1698	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.649E-04	6.509E-06	5.294E-01	0.000E+00	7.182E-04	1.441E-03
373,135	3,755,704	2.1929	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.667E-04	6.579E-06	5.351E-01	0.000E+00	7.258E-04	1.456E-03
373,131	3,755,567	1.9761	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.502E-04	5.928E-06	4.822E-01	0.000E+00	6.541E-04	1.312E-03
373,054	3,755,563	1.97444	0	0	1.8	1-HR	FUG_DUST	1ST	96052101	1.501E-04	5.923E-06	4.818E-01	0.000E+00	6.535E-04	1.311E-03
373,046	3,755,174	2.50541	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	1.904E-04	7.516E-06	6.113E-01	0.000E+00	8.293E-04	1.664E-03

**Table B-10**  
**AERMOD Output File for CFTP PM10 Runs, Fugitive , Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                    DEFAULT ELEV FLGPOL  
 \* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST  
 \* FOR A TOTAL OF 120 RECEPTORS.  
 \* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE										NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)								
372,725	3,755,177	3.14888	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	2.393E-04	9.447E-06	7.683E-01	0.000E+00	1.042E-03	2.091E-03		
372,624	3,755,182	3.3445	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	2.542E-04	1.003E-05	8.161E-01	0.000E+00	1.107E-03	2.221E-03		
372,238	3,755,186	4.08683	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.106E-04	1.226E-05	9.972E-01	0.000E+00	1.353E-03	2.714E-03		
371,843	3,755,189	4.65607	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.539E-04	1.397E-05	1.136E+00	0.000E+00	1.541E-03	3.092E-03		
371,463	3,755,192	4.89216	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.718E-04	1.468E-05	1.194E+00	0.000E+00	1.619E-03	3.248E-03		
371,049	3,755,196	4.67014	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.549E-04	1.401E-05	1.140E+00	0.000E+00	1.546E-03	3.101E-03		
371,056	3,755,349	5.56921	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.233E-04	1.671E-05	1.359E+00	0.000E+00	1.843E-03	3.698E-03		
371,043	3,755,384	5.73659	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.360E-04	1.721E-05	1.400E+00	0.000E+00	1.899E-03	3.809E-03		
371,042	3,755,556	6.3181	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.802E-04	1.895E-05	1.542E+00	0.000E+00	2.091E-03	4.195E-03		
370,996	3,755,560	6.40969	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.871E-04	1.923E-05	1.564E+00	0.000E+00	2.122E-03	4.256E-03		
371,001	3,755,419	5.91013	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	4.492E-04	1.773E-05	1.442E+00	0.000E+00	1.956E-03	3.924E-03		
370,801	3,755,276	4.89122	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.717E-04	1.467E-05	1.193E+00	0.000E+00	1.619E-03	3.248E-03		
370,667	3,755,262	4.50067	0	0	1.8	1-HR	FUG_DUST	1ST	96010208	3.421E-04	1.350E-05	1.098E+00	0.000E+00	1.490E-03	2.988E-03		
370,380	3,755,263	5.01985	0	0	1.8	1-HR	FUG_DUST	1ST	96010523	3.815E-04	1.506E-05	1.225E+00	0.000E+00	1.662E-03	3.333E-03		
370,076	3,755,265	7.41049	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	5.632E-04	2.223E-05	1.808E+00	0.000E+00	2.453E-03	4.921E-03		
369,787	3,755,267	10.11085	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	7.684E-04	3.033E-05	2.467E+00	0.000E+00	3.347E-03	6.714E-03		
369,498	3,755,268	10.40022	0	0	1.8	1-HR	FUG_DUST	1ST	96100707	7.904E-04	3.120E-05	2.538E+00	0.000E+00	3.442E-03	6.906E-03		
369,194	3,755,270	16.37001	0	0	1.8	1-HR	FUG_DUST	1ST	96030107	1.244E-03	4.911E-05	3.994E+00	0.000E+00	5.418E-03	1.087E-02		
368,889	3,755,272	26.80606	0	0	1.8	1-HR	FUG_DUST	1ST	96011009	2.037E-03	8.042E-05	6.541E+00	0.000E+00	8.873E-03	1.780E-02		
368,569	3,755,273	34.02201	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	2.586E-03	1.021E-04	8.301E+00	0.000E+00	1.126E-02	2.259E-02		
368,275	3,755,275	35.9086	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	2.729E-03	1.077E-04	8.762E+00	0.000E+00	1.189E-02	2.384E-02		
367,936	3,755,213	28.43571	0	0	1.8	1-HR	FUG_DUST	1ST	96020707	2.161E-03	8.531E-05	6.938E+00	0.000E+00	9.412E-03	1.888E-02		





Table B-11

AERMOD Output File for CFTP PM10 Runs, Crusher, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\* FOR A TOTAL OF 120 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE																			
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL
372,725	3,755,177	0.00576	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.728E-06	0.000E+00	2.469E-07	1.728E-06	1.728E-06	1.728E-06	0.000E+00	1.728E-06
372,624	3,755,182	0.0059	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.770E-06	0.000E+00	2.529E-07	1.770E-06	1.770E-06	1.770E-06	0.000E+00	1.770E-06
372,238	3,755,186	0.00646	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.938E-06	0.000E+00	2.769E-07	1.938E-06	1.938E-06	1.938E-06	0.000E+00	1.938E-06
371,843	3,755,189	0.00703	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.109E-06	0.000E+00	3.013E-07	2.109E-06	2.109E-06	2.109E-06	0.000E+00	2.109E-06
371,463	3,755,192	0.00792	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.376E-06	0.000E+00	3.394E-07	2.376E-06	2.376E-06	2.376E-06	0.000E+00	2.376E-06
371,049	3,755,196	0.01068	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.204E-06	0.000E+00	4.577E-07	3.204E-06	3.204E-06	3.204E-06	0.000E+00	3.204E-06
371,056	3,755,349	0.00928	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.784E-06	0.000E+00	3.977E-07	2.784E-06	2.784E-06	2.784E-06	0.000E+00	2.784E-06
371,043	3,755,384	0.00954	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.862E-06	0.000E+00	4.089E-07	2.862E-06	2.862E-06	2.862E-06	0.000E+00	2.862E-06
371,042	3,755,556	0.01019	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.057E-06	0.000E+00	4.367E-07	3.057E-06	3.057E-06	3.057E-06	0.000E+00	3.057E-06
370,996	3,755,560	0.01038	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.114E-06	0.000E+00	4.449E-07	3.114E-06	3.114E-06	3.114E-06	0.000E+00	3.114E-06
371,001	3,755,419	0.00987	0	0	1.8	1-HR	CRUSHER	1ST	96052101	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.961E-06	0.000E+00	4.230E-07	2.961E-06	2.961E-06	2.961E-06	0.000E+00	2.961E-06
370,801	3,755,276	0.01208	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.624E-06	0.000E+00	5.177E-07	3.624E-06	3.624E-06	3.624E-06	0.000E+00	3.624E-06
370,667	3,755,262	0.0136	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.080E-06	0.000E+00	5.829E-07	4.080E-06	4.080E-06	4.080E-06	0.000E+00	4.080E-06
370,380	3,755,263	0.01709	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.127E-06	0.000E+00	7.324E-07	5.127E-06	5.127E-06	5.127E-06	0.000E+00	5.127E-06
370,076	3,755,265	0.02177	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.531E-06	0.000E+00	9.330E-07	6.531E-06	6.531E-06	6.531E-06	0.000E+00	6.531E-06
369,787	3,755,267	0.02713	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.139E-06	0.000E+00	1.163E-06	8.139E-06	8.139E-06	8.139E-06	0.000E+00	8.139E-06
369,498	3,755,268	0.03282	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.846E-06	0.000E+00	1.407E-06	9.846E-06	9.846E-06	9.846E-06	0.000E+00	9.846E-06
369,194	3,755,270	0.03705	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.112E-05	0.000E+00	1.588E-06	1.112E-05	1.112E-05	1.112E-05	0.000E+00	1.112E-05
368,889	3,755,272	0.03434	0	0	1.8	1-HR	CRUSHER	1ST	96010208	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.030E-05	0.000E+00	1.472E-06	1.030E-05	1.030E-05	1.030E-05	0.000E+00	1.030E-05
368,569	3,755,273	0.05464	0	0	1.8	1-HR	CRUSHER	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.639E-05	0.000E+00	2.342E-06	1.639E-05	1.639E-05	1.639E-05	0.000E+00	1.639E-05
368,275	3,755,275	0.06756	0	0	1.8	1-HR	CRUSHER	1ST	96100707	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.027E-05	0.000E+00	2.895E-06	2.027E-05	2.027E-05	2.027E-05	0.000E+00	2.027E-05
367,936	3,755,213	0.09322	0	0	1.8	1-HR	CRUSHER	1ST	96030107	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.797E-05	0.000E+00	3.995E-06	2.797E-05	2.797E-05	2.797E-05	0.000E+00	2.797E-05

**Table B-11**  
**AERMOD Output File for CFTP PM10 Runs, Crusher, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                    DFAULT ELEV   FLGPOL  
 \*                            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER  
 \*                            FOR A TOTAL OF 120 RECEPTORS.  
 \*                            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)  
 \*

X	Y	AVERAGE										SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)							
367,484	3,755,199	0.07424	0	0	1.8	1-HR CRUSHER	1ST	96010507	2.227E-05	7.424E-03	1.764E-02	0.000E+00	2.227E-05			
367,301	3,755,623	0.10266	0	0	1.8	1-HR CRUSHER	1ST	96020707	3.080E-05	1.027E-02	2.439E-02	0.000E+00	3.080E-05			
367,114	3,756,056	0.10951	0	0	1.8	1-HR CRUSHER	1ST	96030207	3.285E-05	1.095E-02	2.602E-02	0.000E+00	3.285E-05			
366,985	3,756,358	0.12779	0	0	1.8	1-HR CRUSHER	1ST	96020207	3.834E-05	1.278E-02	3.036E-02	0.000E+00	3.834E-05			
366,853	3,756,663	0.07361	0	0	1.8	1-HR CRUSHER	1ST	96020207	2.208E-05	7.361E-03	1.749E-02	0.000E+00	2.208E-05			
366,902	3,756,692	0.06495	0	0	1.8	1-HR CRUSHER	1ST	96020207	1.949E-05	6.495E-03	1.543E-02	0.000E+00	1.949E-05			
366,876	3,756,760	0.05575	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.673E-05	5.575E-03	1.325E-02	0.000E+00	1.673E-05			
366,813	3,756,739	0.05905	0	0	1.8	1-HR CRUSHER	1ST	96020207	1.772E-05	5.905E-03	1.403E-02	0.000E+00	1.772E-05			
366,677	3,757,025	0.05384	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.615E-05	5.384E-03	1.279E-02	0.000E+00	1.615E-05			
366,536	3,757,322	0.05165	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.550E-05	5.165E-03	1.227E-02	0.000E+00	1.550E-05			
366,437	3,757,531	0.04718	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.415E-05	4.718E-03	1.121E-02	0.000E+00	1.415E-05			
366,487	3,757,537	0.04872	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.462E-05	4.872E-03	1.158E-02	0.000E+00	1.462E-05			
366,624	3,757,468	0.054	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.620E-05	5.400E-03	1.283E-02	0.000E+00	1.620E-05			
366,644	3,757,531	0.05242	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.573E-05	5.242E-03	1.245E-02	0.000E+00	1.573E-05			
366,777	3,757,520	0.05343	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.603E-05	5.343E-03	1.269E-02	0.000E+00	1.603E-05			
366,999	3,757,642	0.0379	0	0	1.8	1-HR CRUSHER	1ST	96020108	1.137E-05	3.790E-03	9.005E-03	0.000E+00	1.137E-05			
367,174	3,757,740	0.03041	0	0	1.8	1-HR CRUSHER	1ST	96032207	9.123E-06	3.041E-03	7.225E-03	0.000E+00	9.123E-06			
367,291	3,757,694	0.0405	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.215E-05	4.050E-03	9.623E-03	0.000E+00	1.215E-05			
367,413	3,757,695	0.05151	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.545E-05	5.151E-03	1.224E-02	0.000E+00	1.545E-05			
367,410	3,757,736	0.05058	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.517E-05	5.058E-03	1.202E-02	0.000E+00	1.517E-05			
367,518	3,757,796	0.05588	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.676E-05	5.588E-03	1.328E-02	0.000E+00	1.676E-05			
367,539	3,757,802	0.0566	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.698E-05	5.660E-03	1.345E-02	0.000E+00	1.698E-05			
367,609	3,757,677	0.06415	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.925E-05	6.415E-03	1.524E-02	0.000E+00	1.925E-05			
367,769	3,757,644	0.06539	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.962E-05	6.539E-03	1.554E-02	0.000E+00	1.962E-05			
367,775	3,757,719	0.06095	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.829E-05	6.095E-03	1.448E-02	0.000E+00	1.829E-05			
367,809	3,757,835	0.05361	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.608E-05	5.361E-03	1.274E-02	0.000E+00	1.608E-05			
367,807	3,757,936	0.04943	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.483E-05	4.943E-03	1.174E-02	0.000E+00	1.483E-05			
367,775	3,757,959	0.04986	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.496E-05	4.986E-03	1.185E-02	0.000E+00	1.496E-05			
367,798	3,758,011	0.04694	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.408E-05	4.694E-03	1.115E-02	0.000E+00	1.408E-05			
367,914	3,757,962	0.04239	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.272E-05	4.239E-03	1.007E-02	0.000E+00	1.272E-05			
367,905	3,757,930	0.0441	0	0	1.8	1-HR CRUSHER	1ST	96032207	1.323E-05	4.410E-03	1.048E-02	0.000E+00	1.323E-05			
368,109	3,757,840	0.03031	0	0	1.8	1-HR CRUSHER	1ST	96032207	9.093E-06	3.031E-03	7.202E-03	0.000E+00	9.093E-06			
368,233	3,757,790	0.02398	0	0	1.8	1-HR CRUSHER	1ST	96040807	7.194E-06	2.398E-03	5.698E-03	0.000E+00	7.194E-06			
368,309	3,757,762	0.02642	0	0	1.8	1-HR CRUSHER	1ST	96040807	7.926E-06	2.642E-03	6.277E-03	0.000E+00	7.926E-06			
368,603	3,757,765	0.02668	0	0	1.8	1-HR CRUSHER	1ST	96040807	8.004E-06	2.668E-03	6.339E-03	0.000E+00	8.004E-06			
368,604	3,757,719	0.02751	0	0	1.8	1-HR CRUSHER	1ST	96040807	8.253E-06	2.751E-03	6.536E-03	0.000E+00	8.253E-06			
368,770	3,757,799	0.02304	0	0	1.8	1-HR CRUSHER	1ST	96040807	6.912E-06	2.304E-03	5.474E-03	0.000E+00	6.912E-06			
369,017	3,757,954	0.022	0	0	1.8	1-HR CRUSHER	1ST	96092907	6.600E-06	2.200E-03	5.227E-03	0.000E+00	6.600E-06			
369,080	3,757,864	0.02795	0	0	1.8	1-HR CRUSHER	1ST	96092907	8.385E-06	2.795E-03	6.641E-03	0.000E+00	8.385E-06			
369,224	3,757,952	0.02806	0	0	1.8	1-HR CRUSHER	1ST	96092907	8.418E-06	2.806E-03	6.667E-03	0.000E+00	8.418E-06			
369,409	3,757,730	0.03878	0	0	1.8	1-HR CRUSHER	1ST	96092907	1.163E-05	3.878E-03	9.214E-03	0.000E+00	1.163E-05			
369,454	3,757,776	0.03727	0	0	1.8	1-HR CRUSHER	1ST	96092907	1.118E-05	3.727E-03	8.855E-03	0.000E+00	1.118E-05			
369,265	3,757,997	0.02726	0	0	1.8	1-HR CRUSHER	1ST	96092907	8.178E-06	2.726E-03	6.477E-03	0.000E+00	8.178E-06			
369,452	3,758,128	0.02614	0	0	1.8	1-HR CRUSHER	1ST	96092907	7.842E-06	2.614E-03	6.211E-03	0.000E+00	7.842E-06			
369,460	3,758,394	0.01875	0	0	1.8	1-HR CRUSHER	1ST	96092907	5.625E-06	1.875E-03	4.455E-03	0.000E+00	5.625E-06			
369,853	3,758,394	0.02339	0	0	1.8	1-HR CRUSHER	1ST	96092907	7.017E-06	2.339E-03	5.557E-03	0.000E+00	7.017E-06			
369,850	3,758,078	0.02903	0	0	1.8	1-HR CRUSHER	1ST	96092907	8.709E-06	2.903E-03	6.898E-03	0.000E+00	8.709E-06			
370,299	3,758,078	0.02588	0	0	1.8	1-HR CRUSHER	1ST	96100807	7.764E-06	2.588E-03	6.149E-03	0.000E+00	7.764E-06			
370,298	3,757,963	0.02733	0	0	1.8	1-HR CRUSHER	1ST	96100807	8.199E-06	2.733E-03	6.494E-03	0.000E+00	8.199E-06			



**Table B-11**  
**AERMOD Output File for CFTP PM10 Runs, Crusher, Unmitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION  
 \* MODELING OPTIONS USED:  
 \* CONC                    DFAULT ELEV   FLGPOL  
 \*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER  
 \*                    FOR A TOTAL OF 120 RECEPTORS.  
 \*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3(X,A5,2X,A8,2X,A4,6X,A8,2X,I8))

X	Y	AVERAGE													
		CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	
370,382	3,757,966	0.02658	0	0	1.8	1-HR	CRUSHER	1ST	96100807	7.974E-06	2.658E-03	6.315E-03	0.000E+00	7.974E-06	
370,510	3,758,027	0.02499	0	0	1.8	1-HR	CRUSHER	1ST	96100807	7.497E-06	2.499E-03	5.938E-03	0.000E+00	7.497E-06	
370,506	3,758,088	0.02462	0	0	1.8	1-HR	CRUSHER	1ST	96100807	7.386E-06	2.462E-03	5.850E-03	0.000E+00	7.386E-06	
370,886	3,758,089	0.02096	0	0	1.8	1-HR	CRUSHER	1ST	96100807	6.288E-06	2.096E-03	4.980E-03	0.000E+00	6.288E-06	
370,885	3,757,751	0.01907	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.721E-06	1.907E-03	4.531E-03	0.000E+00	5.721E-06	
370,907	3,757,702	0.01943	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.829E-06	1.943E-03	4.617E-03	0.000E+00	5.829E-06	
370,945	3,757,670	0.0195	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.850E-06	1.950E-03	4.633E-03	0.000E+00	5.850E-06	
371,046	3,757,668	0.01896	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.688E-06	1.896E-03	4.505E-03	0.000E+00	5.688E-06	
371,046	3,757,585	0.01936	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.808E-06	1.936E-03	4.600E-03	0.000E+00	5.808E-06	
371,122	3,757,584	0.01884	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.652E-06	1.884E-03	4.476E-03	0.000E+00	5.652E-06	
371,193	3,757,720	0.01787	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.361E-06	1.787E-03	4.246E-03	0.000E+00	5.361E-06	
371,254	3,757,762	0.01735	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.205E-06	1.735E-03	4.122E-03	0.000E+00	5.205E-06	
371,264	3,757,783	0.0172	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.160E-06	1.720E-03	4.087E-03	0.000E+00	5.160E-06	
371,372	3,757,782	0.01668	0	0	1.8	1-HR	CRUSHER	1ST	96022008	5.004E-06	1.668E-03	3.963E-03	0.000E+00	5.004E-06	
371,399	3,757,806	0.01645	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.935E-06	1.645E-03	3.909E-03	0.000E+00	4.935E-06	
371,798	3,758,080	0.01382	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.146E-06	1.382E-03	3.284E-03	0.000E+00	4.146E-06	
371,908	3,757,934	0.01383	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.149E-06	1.383E-03	3.286E-03	0.000E+00	4.149E-06	
371,964	3,757,922	0.0136	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.080E-06	1.360E-03	3.231E-03	0.000E+00	4.080E-06	
371,970	3,757,842	0.01361	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.083E-06	1.361E-03	3.234E-03	0.000E+00	4.083E-06	
372,023	3,757,843	0.01336	0	0	1.8	1-HR	CRUSHER	1ST	96022008	4.008E-06	1.336E-03	3.174E-03	0.000E+00	4.008E-06	
372,020	3,757,552	0.01276	0	0	1.8	1-HR	CRUSHER	1ST	96022008	3.828E-06	1.276E-03	3.032E-03	0.000E+00	3.828E-06	
372,002	3,757,140	0.0171	0	0	1.8	1-HR	CRUSHER	1ST	96021407	5.130E-06	1.710E-03	4.063E-03	0.000E+00	5.130E-06	
371,514	3,757,136	0.01877	0	0	1.8	1-HR	CRUSHER	1ST	96021407	5.631E-06	1.877E-03	4.460E-03	0.000E+00	5.631E-06	
371,035	3,757,133	0.02003	0	0	1.8	1-HR	CRUSHER	1ST	96021407	6.009E-06	2.003E-03	4.759E-03	0.000E+00	6.009E-06	
371,034	3,757,085	0.02111	0	0	1.8	1-HR	CRUSHER	1ST	96021407	6.333E-06	2.111E-03	5.016E-03	0.000E+00	6.333E-06	
370,764	3,757,087	0.0216	0	0	1.8	1-HR	CRUSHER	1ST	96021407	6.480E-06	2.160E-03	5.132E-03	0.000E+00	6.480E-06	
370,754	3,756,818	0.02835	0	0	1.8	1-HR	CRUSHER	1ST	96021407	8.505E-06	2.835E-03	6.736E-03	0.000E+00	8.505E-06	
371,031	3,756,807	0.02606	0	0	1.8	1-HR	CRUSHER	1ST	96021407	7.818E-06	2.606E-03	6.192E-03	0.000E+00	7.818E-06	
371,033	3,756,780	0.02633	0	0	1.8	1-HR	CRUSHER	1ST	96021407	7.899E-06	2.633E-03	6.256E-03	0.000E+00	7.899E-06	
371,483	3,756,770	0.02252	0	0	1.8	1-HR	CRUSHER	1ST	96021407	6.756E-06	2.252E-03	5.351E-03	0.000E+00	6.756E-06	
371,817	3,756,763	0.02005	0	0	1.8	1-HR	CRUSHER	1ST	96021407	6.015E-06	2.005E-03	4.764E-03	0.000E+00	6.015E-06	
372,274	3,756,753	0.01715	0	0	1.8	1-HR	CRUSHER	1ST	96021407	5.145E-06	1.715E-03	4.075E-03	0.000E+00	5.145E-06	
372,713	3,756,743	0.01485	0	0	1.8	1-HR	CRUSHER	1ST	96021407	4.455E-06	1.485E-03	3.528E-03	0.000E+00	4.455E-06	
372,703	3,756,553	0.01394	0	0	1.8	1-HR	CRUSHER	1ST	96021407	4.182E-06	1.394E-03	3.312E-03	0.000E+00	4.182E-06	
372,819	3,756,549	0.01338	0	0	1.8	1-HR	CRUSHER	1ST	96021407	4.014E-06	1.338E-03	3.179E-03	0.000E+00	4.014E-06	
372,814	3,756,455	0.01272	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.816E-06	1.272E-03	3.022E-03	0.000E+00	3.816E-06	
372,797	3,756,368	0.01206	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.618E-06	1.206E-03	2.865E-03	0.000E+00	3.618E-06	
372,705	3,756,372	0.01249	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.747E-06	1.249E-03	2.968E-03	0.000E+00	3.747E-06	
372,706	3,756,327	0.01207	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.621E-06	1.207E-03	2.868E-03	0.000E+00	3.621E-06	
372,927	3,756,319	0.01113	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.339E-06	1.113E-03	2.644E-03	0.000E+00	3.339E-06	
372,926	3,756,245	0.01045	0	0	1.8	1-HR	CRUSHER	1ST	96021407	3.135E-06	1.045E-03	2.483E-03	0.000E+00	3.135E-06	
373,457	3,756,236	0.00877	0	0	1.8	1-HR	CRUSHER	1ST	96021407	2.631E-06	8.770E-04	2.084E-03	0.000E+00	2.631E-06	
373,448	3,755,560	0.00432	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.296E-06	4.320E-04	1.026E-03	0.000E+00	1.296E-06	
373,222	3,755,569	0.00462	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.386E-06	4.620E-04	1.098E-03	0.000E+00	1.386E-06	
373,219	3,755,705	0.00496	0	0	1.8	1-HR	CRUSHER	1ST	96021407	1.488E-06	4.960E-04	1.178E-03	0.000E+00	1.488E-06	
373,135	3,755,704	0.00506	0	0	1.8	1-HR	CRUSHER	1ST	96021407	1.518E-06	5.060E-04	1.202E-03	0.000E+00	1.518E-06	
373,131	3,755,567	0.00476	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.428E-06	4.760E-04	1.131E-03	0.000E+00	1.428E-06	
373,054	3,755,563	0.00489	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.467E-06	4.890E-04	1.162E-03	0.000E+00	1.467E-06	
373,046	3,755,174	0.00533	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.599E-06	5.330E-04	1.266E-03	0.000E+00	1.599E-06	

Table B-11

AERMOD Output File for CFTP PM10 Runs, Crusher, Unmitigated

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\*                    FOR A TOTAL OF 120 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

		AVERAGE													
X	Y	CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	
372,725	3,755,177	0.00576	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.728E-06	5.760E-04	1.369E-03	0.000E+00	1.728E-06	
372,624	3,755,182	0.0059	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.770E-06	5.900E-04	1.402E-03	0.000E+00	1.770E-06	
372,238	3,755,186	0.00646	0	0	1.8	1-HR	CRUSHER	1ST	96052101	1.938E-06	6.460E-04	1.535E-03	0.000E+00	1.938E-06	
371,843	3,755,189	0.00703	0	0	1.8	1-HR	CRUSHER	1ST	96052101	2.109E-06	7.030E-04	1.670E-03	0.000E+00	2.109E-06	
371,463	3,755,192	0.00792	0	0	1.8	1-HR	CRUSHER	1ST	96010208	2.376E-06	7.920E-04	1.882E-03	0.000E+00	2.376E-06	
371,049	3,755,196	0.01068	0	0	1.8	1-HR	CRUSHER	1ST	96010208	3.204E-06	1.068E-03	2.538E-03	0.000E+00	3.204E-06	
371,056	3,755,349	0.00928	0	0	1.8	1-HR	CRUSHER	1ST	96052101	2.784E-06	9.280E-04	2.205E-03	0.000E+00	2.784E-06	
371,043	3,755,384	0.00954	0	0	1.8	1-HR	CRUSHER	1ST	96052101	2.862E-06	9.540E-04	2.267E-03	0.000E+00	2.862E-06	
371,042	3,755,556	0.01019	0	0	1.8	1-HR	CRUSHER	1ST	96052101	3.057E-06	1.019E-03	2.421E-03	0.000E+00	3.057E-06	
370,996	3,755,560	0.01038	0	0	1.8	1-HR	CRUSHER	1ST	96052101	3.114E-06	1.038E-03	2.466E-03	0.000E+00	3.114E-06	
371,001	3,755,419	0.00987	0	0	1.8	1-HR	CRUSHER	1ST	96052101	2.961E-06	9.870E-04	2.345E-03	0.000E+00	2.961E-06	
370,801	3,755,276	0.01208	0	0	1.8	1-HR	CRUSHER	1ST	96010208	3.624E-06	1.208E-03	2.870E-03	0.000E+00	3.624E-06	
370,667	3,755,262	0.0136	0	0	1.8	1-HR	CRUSHER	1ST	96010208	4.080E-06	1.360E-03	3.231E-03	0.000E+00	4.080E-06	
370,380	3,755,263	0.01709	0	0	1.8	1-HR	CRUSHER	1ST	96010208	5.127E-06	1.709E-03	4.061E-03	0.000E+00	5.127E-06	
370,076	3,755,265	0.02177	0	0	1.8	1-HR	CRUSHER	1ST	96010208	6.531E-06	2.177E-03	5.173E-03	0.000E+00	6.531E-06	
369,787	3,755,267	0.02713	0	0	1.8	1-HR	CRUSHER	1ST	96010208	8.139E-06	2.713E-03	6.446E-03	0.000E+00	8.139E-06	
369,498	3,755,268	0.03282	0	0	1.8	1-HR	CRUSHER	1ST	96010208	9.846E-06	3.282E-03	7.798E-03	0.000E+00	9.846E-06	
369,194	3,755,270	0.03705	0	0	1.8	1-HR	CRUSHER	1ST	96010208	1.112E-05	3.705E-03	8.803E-03	0.000E+00	1.112E-05	
368,889	3,755,272	0.03434	0	0	1.8	1-HR	CRUSHER	1ST	96010208	1.030E-05	3.434E-03	8.159E-03	0.000E+00	1.030E-05	
368,569	3,755,273	0.05464	0	0	1.8	1-HR	CRUSHER	1ST	96100707	1.639E-05	5.464E-03	1.298E-02	0.000E+00	1.639E-05	
368,275	3,755,275	0.06756	0	0	1.8	1-HR	CRUSHER	1ST	96100707	2.027E-05	6.756E-03	1.605E-02	0.000E+00	2.027E-05	
367,936	3,755,213	0.09322	0	0	1.8	1-HR	CRUSHER	1ST	96030107	2.797E-05	9.322E-03	2.215E-02	0.000E+00	2.797E-05	

**Table B-12**  
**AERMOD Output File for CFTP PM10 Runs, Gasoline, Diesel, and Fugitive, Unmitigated**

\* AERMOD (07026): LAX Crossfield Taxiway

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

\* FOR A TOTAL OF 177 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

Fug Dust Pk	12.71%	Max
+	1.48%	Avg
Gas Peak	-0.3186%	Min

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	Difference	
										+ Dsl Peak	with All
367484	3755199	17.53297	0	0	1.8	1-HR	ALL	1ST	96020707	17.48031	-0.3003%
367301	3755623	22.49760	0	0	1.8	1-HR	ALL	1ST	96011508	22.42685	-0.3145%
367114	3756056	22.64725	0	0	1.8	1-HR	ALL	1ST	96030207	22.68642	0.1730%
366985	3756358	19.44881	0	0	1.8	1-HR	ALL	1ST	96020407	20.15338	3.6227%
366853	3756663	17.41821	0	0	1.8	1-HR	ALL	1ST	96012907	17.95485	3.0809%
366902	3756692	17.63085	0	0	1.8	1-HR	ALL	1ST	96012907	18.04408	2.3438%
366876	3756760	17.34410	0	0	1.8	1-HR	ALL	1ST	96012907	17.69487	2.0224%
366813	3756739	17.06612	0	0	1.8	1-HR	ALL	1ST	96012907	17.44358	2.2118%
366677	3757025	14.38725	0	0	1.8	1-HR	ALL	1ST	96012907	14.74694	2.5001%
366536	3757322	12.35014	0	0	1.8	1-HR	ALL	1ST	96020207	12.6417	2.3608%
366437	3757531	11.40445	0	0	1.8	1-HR	ALL	1ST	96020207	11.70609	2.6449%
366487	3757537	11.45866	0	0	1.8	1-HR	ALL	1ST	96020207	11.77817	2.7884%
366624	3757468	12.19393	0	0	1.8	1-HR	ALL	1ST	96020207	12.55455	2.9574%
366644	3757531	11.79553	0	0	1.8	1-HR	ALL	1ST	96020207	12.15813	3.0740%
366777	3757520	12.12809	0	0	1.8	1-HR	ALL	1ST	96020207	12.51173	3.1632%
366999	3757642	10.30696	0	0	1.8	1-HR	ALL	1ST	96020207	10.60979	2.9381%
367174	3757740	7.44640	0	0	1.8	1-HR	ALL	1ST	96020207	7.63686	2.5577%
367291	3757694	8.03607	0	0	1.8	1-HR	ALL	1ST	96020207	8.25753	2.8249%
367413	3757695	9.34456	0	0	1.8	1-HR	ALL	1ST	96020108	9.53803	2.0704%
367410	3757736	9.81939	0	0	1.8	1-HR	ALL	1ST	96020108	10.02117	2.0549%
367518	3757796	12.42439	0	0	1.8	1-HR	ALL	1ST	96020108	12.73472	2.4977%
367539	3757802	12.85485	0	0	1.8	1-HR	ALL	1ST	96020108	13.18149	2.5410%
367609	3757677	12.79654	0	0	1.8	1-HR	ALL	1ST	96020108	13.18108	3.0050%
367769	3757644	15.58490	0	0	1.8	1-HR	ALL	1ST	96020108	16.05891	3.0415%
367775	3757719	16.29974	0	0	1.8	1-HR	ALL	1ST	96020108	16.75087	2.7677%
367809	3757835	17.36805	0	0	1.8	1-HR	ALL	1ST	96020108	17.78437	2.3970%
367807	3757936	17.29298	0	0	1.8	1-HR	ALL	1ST	96020108	17.68012	2.2387%
367775	3757959	16.93837	0	0	1.8	1-HR	ALL	1ST	96020108	17.32057	2.2564%
367798	3758011	16.91574	0	0	1.8	1-HR	ALL	1ST	96020108	17.28353	2.1742%
367914	3757962	17.83884	0	0	1.8	1-HR	ALL	1ST	96020108	18.19825	2.0148%
367905	3757930	18.05776	0	0	1.8	1-HR	ALL	1ST	96020108	18.42882	2.0549%
368109	3757840	19.72437	0	0	1.8	1-HR	ALL	1ST	96020108	20.0243	1.5206%
368233	3757790	20.36660	0	0	1.8	1-HR	ALL	1ST	96020108	20.59427	1.1179%
368309	3757762	20.52186	0	0	1.8	1-HR	ALL	1ST	96020108	20.70192	0.8774%
368603	3757765	16.30750	0	0	1.8	1-HR	ALL	1ST	96032207	16.45647	0.9135%
368604	3757719	16.86637	0	0	1.8	1-HR	ALL	1ST	96020108	17.07054	1.2105%
368770	3757799	30.34221	0	0	1.8	1-HR	ALL	1ST	96032207	30.50981	0.5524%
369017	3757954	26.53990	0	0	1.8	1-HR	ALL	1ST	96032207	26.67814	0.5209%
369080	3757864	25.95322	0	0	1.8	1-HR	ALL	1ST	96032207	26.10704	0.5927%
369224	3757952	17.77383	0	0	1.8	1-HR	ALL	1ST	96032207	17.93946	0.9319%
369409	3757730	17.08573	0	0	1.8	1-HR	ALL	1ST	96040807	17.59711	2.9930%
369454	3757776	16.90895	0	0	1.8	1-HR	ALL	1ST	96040807	17.10172	1.1400%
369265	3757997	15.11043	0	0	1.8	1-HR	ALL	1ST	96032207	15.27296	1.0756%
369452	3758128	10.19412	0	0	1.8	1-HR	ALL	1ST	96040807	10.41148	2.1322%
369460	3758394	8.82199	0	0	1.8	1-HR	ALL	1ST	96011020	9.0951	3.0958%
369853	3758394	10.54847	0	0	1.8	1-HR	ALL	1ST	96040807	10.6605	1.0620%
369850	3758078	11.54890	0	0	1.8	1-HR	ALL	1ST	96040807	11.88355	2.8977%
370299	3758078	16.20662	0	0	1.8	1-HR	ALL	1ST	96092907	16.183	-0.1457%
370298	3757963	20.09105	0	0	1.8	1-HR	ALL	1ST	96092907	20.07857	-0.0621%
370382	3757966	20.73325	0	0	1.8	1-HR	ALL	1ST	96092907	20.73102	-0.0108%
370510	3758027	19.72470	0	0	1.8	1-HR	ALL	1ST	96092907	19.72866	0.0201%
370506	3758088	18.71169	0	0	1.8	1-HR	ALL	1ST	96092907	18.7074	-0.0229%
370886	3758089	16.05482	0	0	1.8	1-HR	ALL	1ST	96100807	16.03387	-0.1305%
370885	3757751	16.43557	0	0	1.8	1-HR	ALL	1ST	96100807	16.41679	-0.1143%
370907	3757702	15.47231	0	0	1.8	1-HR	ALL	1ST	96100807	15.45445	-0.1154%
370945	3757670	14.34221	0	0	1.8	1-HR	ALL	1ST	96100807	14.41368	0.4983%
371046	3757668	14.02742	0	0	1.8	1-HR	ALL	1ST	96022008	14.05563	0.2011%
371046	3757585	14.60300	0	0	1.8	1-HR	ALL	1ST	96022008	14.58364	-0.1326%
371122	3757584	14.14914	0	0	1.8	1-HR	ALL	1ST	96022008	14.13031	-0.1331%
371193	3757720	13.10485	0	0	1.8	1-HR	ALL	1ST	96022008	13.08698	-0.1364%
371254	3757762	12.58652	0	0	1.8	1-HR	ALL	1ST	96022008	12.56918	-0.1378%
371264	3757783	12.37831	0	0	1.8	1-HR	ALL	1ST	96022008	12.38676	0.0683%
371372	3757782	12.14258	0	0	1.8	1-HR	ALL	1ST	96022008	12.12589	-0.1375%
371399	3757806	11.90807	0	0	1.8	1-HR	ALL	1ST	96022008	11.89163	-0.1381%
371798	3758080	9.33699	0	0	1.8	1-HR	ALL	1ST	96022008	9.32994	-0.0755%
371908	3757934	9.97511	0	0	1.8	1-HR	ALL	1ST	96022008	9.96129	-0.1385%
371964	3757922	9.80853	0	0	1.8	1-HR	ALL	1ST	96022008	9.79494	-0.1386%
371970	3757842	9.73838	0	0	1.8	1-HR	ALL	1ST	96022008	9.72476	-0.1399%
372023	3757843	9.49624	0	0	1.8	1-HR	ALL	1ST	96022008	9.48288	-0.1407%
372020	3757552	7.79057	0	0	1.8	1-HR	ALL	1ST	96021407	7.82936	0.4979%
372002	3757140	11.34610	0	0	1.8	1-HR	ALL	1ST	96021407	11.329	-0.1507%
371514	3757136	13.26504	0	0	1.8	1-HR	ALL	1ST	96021407	13.24626	-0.1416%
371035	3757133	16.02745	0	0	1.8	1-HR	ALL	1ST	96021407	16.02404	-0.0213%

Table B-12

AERMOD Output File for CFTP PM10 Runs, Gasoline, Diesel, and Fugitive, Unmitigated

\* AERMOD (07026): LAX Crossfield Taxiway

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

\* FOR A TOTAL OF 177 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

Fug Dust Pk	12.71%	Max
+	1.48%	Avg
Gas Peak	-0.3186%	Min

X	Y	AVERAGE CONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	Difference	
										+ Dsl Peak	with All
371034	3757085	16.04892	0	0	1.8	1-HR	ALL	1ST	96021407	16.03214	-0.1046%
370764	3757087	18.51119	0	0	1.8	1-HR	ALL	1ST	96021407	18.52376	0.0679%
370754	3756818	17.68821	0	0	1.8	1-HR	ALL	1ST	96021407	17.65988	-0.1602%
371031	3756807	15.69486	0	0	1.8	1-HR	ALL	1ST	96021407	15.66881	-0.1660%
371033	3756780	15.62023	0	0	1.8	1-HR	ALL	1ST	96021407	15.59391	-0.1685%
371483	3756770	12.41391	0	0	1.8	1-HR	ALL	1ST	96021407	12.39141	-0.1812%
371817	3756763	10.40965	0	0	1.8	1-HR	ALL	1ST	96021407	10.38961	-0.1925%
372274	3756753	8.14927	0	0	1.8	1-HR	ALL	1ST	96021407	8.13212	-0.2104%
372713	3756743	6.44066	0	0	1.8	1-HR	ALL	1ST	96021407	6.42581	-0.2306%
372703	3756553	4.51535	0	0	1.8	1-HR	ALL	1ST	96021407	4.50142	-0.3085%
372819	3756549	4.19967	0	0	1.8	1-HR	ALL	1ST	96021407	4.18629	-0.3186%
372814	3756455	3.33859	0	0	1.8	1-HR	ALL	1ST	96021407	3.35976	0.6341%
372797	3756368	2.82291	0	0	1.8	1-HR	ALL	1ST	96052201	3.17137	12.3440%
372705	3756372	2.89585	0	0	1.8	1-HR	ALL	1ST	96052201	3.26378	12.7054%
372706	3756327	2.80523	0	0	1.8	1-HR	ALL	1ST	96052201	3.13361	11.7060%
372927	3756319	2.64100	0	0	1.8	1-HR	ALL	1ST	96052201	2.92999	10.9424%
372926	3756245	2.46815	0	0	1.8	1-HR	ALL	1ST	96052201	2.75031	11.4320%
373457	3756236	2.17237	0	0	1.8	1-HR	ALL	1ST	96052201	2.3484	8.1031%
373448	3755560	2.28366	0	0	1.8	1-HR	ALL	1ST	96052101	2.27934	-0.1892%
373222	3755569	2.34428	0	0	1.8	1-HR	ALL	1ST	96052101	2.33966	-0.1971%
373219	3755705	2.55215	0	0	1.8	1-HR	ALL	1ST	96052101	2.55998	0.3068%
373135	3755704	2.58370	0	0	1.8	1-HR	ALL	1ST	96052101	2.59134	0.2957%
373131	3755567	2.35697	0	0	1.8	1-HR	ALL	1ST	96052101	2.3522	-0.2024%
373054	3755563	2.36130	0	0	1.8	1-HR	ALL	1ST	96052101	2.35641	-0.2071%
373046	3755174	2.94759	0	0	1.8	1-HR	ALL	1ST	96010208	2.96604	0.6259%
372725	3755177	3.66471	0	0	1.8	1-HR	ALL	1ST	96010208	3.6815	0.4582%
372624	3755182	3.88481	0	0	1.8	1-HR	ALL	1ST	96010208	3.90105	0.4180%
372238	3755186	4.73124	0	0	1.8	1-HR	ALL	1ST	96010208	4.74331	0.2551%
371843	3755189	5.41550	0	0	1.8	1-HR	ALL	1ST	96010208	5.42006	0.0842%
371463	3755192	5.76181	0	0	1.8	1-HR	ALL	1ST	96010208	5.75428	-0.1307%
371049	3755196	5.63866	0	0	1.8	1-HR	ALL	1ST	96010208	5.62799	-0.1892%
371056	3755349	6.61236	0	0	1.8	1-HR	ALL	1ST	96010208	6.60854	-0.0578%
371043	3755384	6.79878	0	0	1.8	1-HR	ALL	1ST	96010208	6.79967	0.0131%
371042	3755556	7.42862	0	0	1.8	1-HR	ALL	1ST	96010208	7.45124	0.3045%
370996	3755560	7.54622	0	0	1.8	1-HR	ALL	1ST	96010208	7.56835	0.2933%
371001	3755419	7.00215	0	0	1.8	1-HR	ALL	1ST	96010208	7.00644	0.0613%
370801	3755276	5.95752	0	0	1.8	1-HR	ALL	1ST	96010208	5.94544	-0.2028%
370667	3755262	5.57445	0	0	1.8	1-HR	ALL	1ST	96010208	5.56085	-0.2440%
370380	3755263	5.89405	0	0	1.8	1-HR	ALL	1ST	96010523	6.08443	3.2300%
370076	3755265	8.68459	0	0	1.8	1-HR	ALL	1ST	96100707	8.86249	2.0485%
369787	3755267	11.75486	0	0	1.8	1-HR	ALL	1ST	96100707	11.9757	1.8787%
369498	3755268	12.15464	0	0	1.8	1-HR	ALL	1ST	96100707	12.40875	2.0906%
369194	3755270	18.88169	0	0	1.8	1-HR	ALL	1ST	96030107	19.20552	1.7150%
368889	3755272	30.75161	0	0	1.8	1-HR	ALL	1ST	96011009	31.02902	0.9021%
368569	3755273	39.68078	0	0	1.8	1-HR	ALL	1ST	96012607	40.23343	1.3927%
368275	3755275	41.22168	0	0	1.8	1-HR	ALL	1ST	96012607	41.78406	1.3643%
367936	3755213	32.80404	0	0	1.8	1-HR	ALL	1ST	96020707	33.56305	2.3138%

Table B-13

## TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP, Onsite Locations

## TOG Profile 441-Gasoline Vehicles-Catalyst-Stabilized-2003

## TOG Profile 818-Diesel Farm Equipment

Compound	TOG fraction		Compound	TOG fraction	
acetaldehyde	0.00241	ChC	acetaldehyde	0.07353	ChC
acetone	0.00164		acetone	0.07507	
acetylene	0.03320998		acetylene	0.04254	
acrolein	0.00135	ACh	alkene ketone	0.01749	
benzaldehyde	0.00164		benzaldehyde	0.00699	
benzene	0.02636	AChC	benzene	0.02000998	AChC
1,2-butadiene (methylallene)	0.0001		butadiene, 1,3-	0.0019	ChC
butadiene, 1,3-	0.0055	ChC	n-butane	0.00104	
n-butane	0.00782		1-butene	0.00666	
1-butene	0.00425		cis-2-butene	0.00094	
cis-2-butene	0.00174		trans-2-butene	0.00195	
trans-2-butene	0.00241		isomers of butylbenzene	0.00127	
butyraldehyde	0.00019		t-butylbenzene	0.00006	
c6 aldehydes	0.00019		butyraldehyde	0.01867998	
crotonaldehyde	0.00029		c10 aromatics	0.00079	
cyclohexane	0.00608		c5 aldehyde	0.0011	
cyclohexene	0.00087		c6 aldehydes	0.03799	
cyclopentane	0.00357		c9 aromatics	0.00497	
cyclopentene	0.00193		cyclohexane	0.00026	
n-decane	0.00154		cyclohexanone	0.00107	
1,3-diethylbenzene (meta)	0.00029		cyclopentane	0.00012	
1,4-diethylbenzene (para)	0.00068		n-decane	0.00529	
1-(1,1-dimethylethyl)-3,5-dimethylbenzene	0.0001		1,2-diethylbenzene (ortho)	0.00086	
1,2-dimethyl-3-ethylbenzene	0.0001		isomers of diethylbenzene	0.00135	
1,2-dimethyl-4-ethylbenzene	0.00106		2,2-dimethylbutane	0.00061	
2,2-dimethylbutane	0.00637		2,3-dimethyl-1-butene	0.00028	
2,2-dimethylhexane	0.00068		2,3-dimethylhexane	0.00011	
2,2-dimethyloctane	0.0001		2,3-dimethylpentane	0.00073	
2,3-dimethyl-1-butene	0.0001		2,4-dimethylhexane	0.00036	
2,3-dimethylbutane	0.01051998		2,4-dimethylpentane	0.00019	
2,3-dimethylhexane	0.00241		3,3-dimethyl-1-butene	0.0282	
2,3-dimethyloctane	0.0001		ethane	0.00565	
2,3-dimethylpentane	0.01438998		ethanol	0.00009	
2,4-dimethyl-2-pentene	0.00019		ethylbenzene	0.00305	ChC
2,4-dimethylheptane	0.00068		ethylene	0.14377	
2,4-dimethylhexane	0.0027		ethylhexane	0.00061	
2,4-dimethyloctane	0.00039		formaldehyde	0.14714	AChC
2,4-dimethylpentane	0.00434		n-heptane	0.00068	
2,5-dimethylhexane	0.00338		hexane, n-	0.00157	Ch
2,5-dimethyloctane	0.00039		indan	0.00188	
2,6-dimethylheptane	0.00174		isobutane	0.01221998	
2,6-dimethyloctane	0.0001		isobutylene	0.00922	
3,3-dimethyloctane	0.00039		isopentane	0.00602	
3,3-dimethylpentane	0.0001		isopropylbenzene (cumene)	0.00015	
3,4-dimethylheptane	0.00039		methane	0.04084	
3,5-dimethylheptane	0.00145		(1-methylpropyl)benzene	0.00051	
cis-1,2-dimethylcyclohexane	0.00029		(2-methylpropyl)benzene	0.00126	
cis-1,3-dimethylcyclohexane	0.00077		1-methyl-2-ethylbenzene	0.00138	
cis-1,3-dimethylcyclopentane	0.00232		1-methyl-3-ethylbenzene	0.00247	
trans-1,3-dimethylcyclohexane	0.00039		2-methylheptane	0.00057	
trans-1,3-dimethylcyclopentane	0.00261		2-methylhexane	0.00115	
trans-1,4-dimethylcyclohexane	0.00039		2-methylpentane	0.00392	
1,3-dipropylbenzene	0.0001		3-methylhexane	0.00348	
n-dodecane	0.0001		3-methylpentane	0.00115	
ethane	0.01051998		b-methylstyrene	0.00047	
ethanol	0.00068		methylcyclohexane	0.00068	
3-ethylpentane	0.00261		methylcyclopentane	0.00149	
ethylbenzene	0.01072	ChC	methyl alcohol	0.0003	ACh
ethylcyclopentane	0.00145		methyl ethyl ketone	0.01476998	ACh
ethylene	0.06497998		methyl n-butyl ketone	0.00899	
formaldehyde	0.01698998	AChC	naphthalene	0.00085	ChC
n-heptane	0.00502		n-nonane	0.0023	
cis-2-heptene	0.0001		n-octane	0.0014	
trans-2-heptene	0.0001		n-pentane	0.00175	
trans-3-heptene	0.00048		1-pentene	0.00324	
hexane, n-	0.01584	Ch	cis-2-pentene	0.0003	
1-hexene	0.00048		trans-2-pentene	0.0004	
cis-2-hexene	0.00039		1,2-propadiene	0.00466	
trans-2-hexene	0.00126		propane	0.00185	
trans-3-hexene	0.00048		propionaldehyde	0.0097	
indan	0.00087		n-propylbenzene	0.00122	
isobutane	0.00019		propylene	0.02596998	Ch
isobutylene	0.03341		styrene	0.00058	ACh
isopentane	0.06835999		toluene	0.01473	ACh
isoprene	0.00145		1,2,3-trimethylbenzene	0.0012	
isopropylbenzene (cumene)	0.0001		1,2,4-trimethylbenzene	0.0053	
isovaleraldehyde	0.00039		1,3,5-trimethylbenzene	0.00194	
methane	0.18719986		2,2,4-trimethylpentane	0.00298	
1-methyl-2-ethylbenzene	0.0028		2,3,4-trimethylpentane	0.00015	
1-methyl-2-isopropylbenzene	0.00048		n-undecane	0.00261	
1-methyl-2-n-butylbenzene	0.0001		unidentified	0.13862	
1-methyl-2n-propylbenzene	0.0001		xylene, m-	0.00611	ACh
1-methyl-3-ethylbenzene	0.00811		xylene, o-	0.00335	ACh

**Table B-13**  
**TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP, Onsite Locations**

**TOG Profile 441-Gasoline Vehicles-Catalyst-Stabilized-2003**

**TOG Profile 818-Diesel Farm Equipment**

Compound	TOG fraction	Compound	TOG fraction	
1-methyl-3-isopropylbenzene	0.00029	xylene, p-	0.00095	ACh
1-methyl-3n-propylbenzene	0.00154	acrolein	0	
1-methyl-4-ethylbenzene	0.00338	ethylene glycol	0	
1-methyl-4-ethylcyclohexane	0.0001	isopropyl alcohol	0	
2-methyl-1-butene	0.0029	methyl t-butyl ether	0	
2-methyl-1-pentene	0.00068			
2-methyl-2-butene	0.00415			
2-methyl-2-pentene	0.00077			
2-methyl-2-propenal	0.00087			
2-methylheptane	0.00338			
2-methylindan	0.00019			
2-methylnonane	0.00087			
2-methyloctane	0.0001			
2-methylpentane	0.03716998			
2-methyl-trans-3-hexene	0.00039			
3-methyl-1-butene	0.00232			
3-methyl-1-pentene	0.00106			
3-methyl-cis-2-hexene	0.0001			
3-methylcyclopentene	0.00068			
3-methylheptane	0.00599			
3-methylhexane	0.00763			
3-methyloctane	0.00299			
3-methylpentane	0.02181998			
4-methyl-1-pentene	0.0001			
4-methylheptane	0.00154			
4-methylindan	0.0001			
4-methyloctane	0.00232			
4-methyl-trans-2-pentene	0.00058			
5-methylindan	0.00019			
cis-1-methyl-3-ethylcyclopentane	0.00068			
trans-1-methyl-3-ethylcyclopentane	0.00106			
methyl alcohol	0.00406			ACh
methyl ethyl ketone	0.00019			ACh
methyl t-butyl ether	0.01941			ChC
methylcyclohexane	0.00608			
methylcyclopentane	0.02761			
naphthalene	0.00048			ChC
n-nonane	0.00174			
n-octane	0.00386			
n-pentane	0.02761			
1-pentene	0.00135			
cis-2-pentene	0.00116			
trans-2-pentene	0.00212			
n-pentylbenzene	0.0001			
1,2-propadiene	0.00145			
propane	0.00058			
propionaldehyde	0.00039			
n-propylbenzene	0.00232			
propylene	0.03127998			Ch
1-propyne	0.00232			
styrene	0.00126			ACh
1,2,3,4-tetramethylbenzene	0.00019			
1,2,3,5-tetramethylbenzene	0.00029			
1,2,4,5-tetramethylbenzene	0.00019			
tolualdehyde	0.00222			
toluene	0.05879998			ACh
1,2,3-trimethylbenzene	0.00174			
1,2,4-trimethylbenzene	0.00985			
1,2,4-trimethylcyclopentene	0.00126			
1,3,5-trimethylbenzene	0.00396			
1,3,5-trimethylcyclohexane	0.00068			
1,3-dimethyl-4-ethylbenzene	0.00048			
1,3-dimethyl-5-ethylbenzene	0.00116			
1,4-dimethyl-2-ethylbenzene	0.00048			
2,2,3-trimethylbutane	0.0001			
2,2,4-trimethylheptane	0.00019			
2,2,4-trimethylhexane	0.00077			
2,2,4-trimethylpentane	0.01719			
2,2,5-triethylheptane	0.00058			
2,2,5-trimethylhexane	0.00319			
2,3,4-trimethylpentane	0.00599			
2,3,5-trimethylhexane	0.00019			
cis-1,trans-2,3-trimethylcyclopentane	0.00058			
n-undecane	0.0001			
vinylacetylene	0.00068			
xylene, m-	0.03639998			ACh
xylene, o-	0.01264998			ACh
ethylene glycol	0			
isopropyl alcohol	0			
xylene, p-	0			

**Table B-13**  
**TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP, Onsite Locations**  
**TOG Profile 715-Slow cure asphalt**

Compound	TOG fraction
c11 cycloalkanes	0.04120998
c12 cycloalkanes	0.03115998
c13 internal alkenes	0.05627998
c2 alkyl decalin	0.03919998
c2 alkyl indan	0.11254
c4 substituted cyclohexanone	0.02311998
decane, n-	0.02813998
dodecane, n-	0.18592972
methylnaphthalenes	0.10250998
naphthalene	0.06533
pentylcyclohexane, n-	0.02009998
tetradecane, isomers of	0.03115998
tridecane, isomers of	0.09648
trimethylbenzene	0.08945
undecane, n-	0.07738998
acetaldehyde	0
acrolein	0
benzene	0
butadiene, 1,3-	0
ethylbenzene	0
ethylene glycol	0
formaldehyde	0
hexane, n-	0
isopropyl alcohol	0
methyl alcohol	0
methyl ethyl ketone	0
methyl t-butyl ether	0
propylene	0
styrene	0
toluene	0
xylene, m-	0
xylene, o-	0
xylene, p-	0

**TOG Profile 1811-Ground/Traffic/Marking Coatings**

Compound	TOG fraction	
acetone	0.065871	
aliphatics	0.009309	
butane, n-	0.064566	
butyl alcohol, n-	0.000338	
butyl cellosolve {2-butoxyethanol} (egbe)	0.006001	
cyclohexane	0.001986	
cyclohexanol	0.000286	
di(propylene glycol) methyl ether	0.004519	
distillates/naphtha/mineral spirits	0.220853	
ethylbenzene	0.009931	ChC
ethylene glycol	0.001282	Ch
hexane, n-	0.029998	Ch
hydrocarbon propellant (lpg, sweetened)	0.150870	
isobutane	0.034194	
isopropyl alcohol	0.003107	ACh
methyl alcohol	0.001746	ACh
methyl ethyl ketone	0.001181	A
other misc voc compounds aggregated in profile	0.008752	
propane	0.157580	
propyleneglycolmonomethyletheracetate(2-(1-methoxy)propylacetate)	0.000435	
toluene	0.092542	ACh
xylene, isomers of	0.132904	
xylene, m-	0.000930	ACh
xylene, o-	0.000410	ACh
xylene, p-	0.000410	ACh
acetaldehyde	0	
acrolein	0	
benzene	0	
butadiene, 1,3-	0	
formaldehyde	0	
methyl t-butyl ether	0	
naphthalene	0	
propylene	0	
styrene	0	

Table B-13  
TOG Profiles for Volatile Organic Compounds(VOCs) for the CFTP, Onsite Locations  
TOG Profile 715-Slow cure asphalt

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Compound	TOG fraction
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TOG Profile 1811-Ground/Traffic/Marking Coatings

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Compound	TOG fraction
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Table B-14

AERMOD Output File for CFTP Volatile Organic Compound Runs, Gasoline, Onsite Locations

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\*                    FOR A TOTAL OF 5 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

*	X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Gasoline TOG/VOC											
											Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde (ug/m <sup>3</sup> )	acrolein (ug/m <sup>3</sup> )	benzene (ug/m <sup>3</sup> )	butadiene, 1,3- (ug/m <sup>3</sup> )	ethylbenzene (ug/m <sup>3</sup> )	ethylene glycol (ug/m <sup>3</sup> )	formaldehyde (ug/m <sup>3</sup> )	hexane, n- (ug/m <sup>3</sup> )	isopropyl alcohol (ug/m <sup>3</sup> )	methyl alcohol (ug/m <sup>3</sup> )
	369454	3756947	0.65577	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.118	0.73308	1.767E-03	9.897E-04	1.932E-02	4.032E-03	7.859E-03	0.000E+00	1.246E-02	1.161E-02	0.000E+00	2.976E-03
	369009	3756896	0.79813	0	0	1.8	1-HR	GASOLINE	1ST	96030207		0.89223	2.150E-03	1.205E-03	2.352E-02	4.907E-03	9.565E-03	0.000E+00	1.516E-02	1.413E-02	0.000E+00	3.622E-03
	369035	3756464	0.6856	0	0	1.8	1-HR	GASOLINE	1ST	96020407		0.76643	1.847E-03	1.035E-03	2.020E-02	4.215E-03	8.216E-03	0.000E+00	1.302E-02	1.214E-02	0.000E+00	3.112E-03
	369066	3756031	0.6134	0	0	1.8	1-HR	GASOLINE	1ST	96012607		0.68572	1.653E-03	9.257E-04	1.808E-02	3.771E-03	7.351E-03	0.000E+00	1.165E-02	1.086E-02	0.000E+00	2.784E-03
	367897	3756019	0.30882	0	0	1.8	1-HR	GASOLINE	1ST	96030207		0.34523	8.320E-04	4.661E-04	9.100E-03	1.899E-03	3.701E-03	0.000E+00	5.865E-03	5.468E-03	0.000E+00	1.402E-03

Table B-14

AERMOD Output File for CFTP Volatile Organic Compound Runs, Gasoline, Onsite Locations

- \* AERMOD (07026): LAX CFTP Construction
- \* MODELING OPTIONS USED:
- \* CONC                   DFAULT ELEV   FLGPOL
- \*                         PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE
- \*                         FOR A TOTAL OF   5 RECEPTORS.
- \*                         FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

	X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
*																			
*	369454	3756947	0.65577	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.393E-04	1.423E-02	3.519E-04	2.293E-02	9.237E-04	4.311E-02	2.668E-02	9.274E-03	0.000E+00
	369009	3756896	0.79813	0	0	1.8	1-HR	GASOLINE	1ST	96030207	1.695E-04	1.732E-02	4.283E-04	2.791E-02	1.124E-03	5.246E-02	3.248E-02	1.129E-02	0.000E+00
	369035	3756464	0.6856	0	0	1.8	1-HR	GASOLINE	1ST	96020407	1.456E-04	1.488E-02	3.679E-04	2.397E-02	9.657E-04	4.507E-02	2.790E-02	9.695E-03	0.000E+00
	369066	3756031	0.6134	0	0	1.8	1-HR	GASOLINE	1ST	96012607	1.303E-04	1.331E-02	3.291E-04	2.145E-02	8.640E-04	4.032E-02	2.496E-02	8.674E-03	0.000E+00
	367897	3756019	0.30882	0	0	1.8	1-HR	GASOLINE	1ST	96030207	6.559E-05	6.701E-03	1.657E-04	1.080E-02	4.350E-04	2.030E-02	1.257E-02	4.367E-03	0.000E+00

Table B-15

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Onsite Locations

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                   DFAULT ELEV   FLGPOL

\*   PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*   FOR A TOTAL OF 5 RECEPTORS.

\*   FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

*	X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Diesel TOG/VOC										
											Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde (ug/m <sup>3</sup> )	acrolein (ug/m <sup>3</sup> )	benzene (ug/m <sup>3</sup> )	butadiene, 1,3- (ug/m <sup>3</sup> )	ethylbenzene (ug/m <sup>3</sup> )	ethylene glycol (ug/m <sup>3</sup> )	formaldehyde (ug/m <sup>3</sup> )	hexane, n- (ug/m <sup>3</sup> )	isopropyl alcohol (ug/m <sup>3</sup> )
	369454	3756947	44.33469	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.016	45.05044	3.313E+00	0.000E+00	9.015E-01	8.560E-02	1.374E-01	0.000E+00	6.629E+00	7.073E-02	0.000E+00
	369009	3756896	54.00212	0	0	1.8	1-HR	DIESEL	1ST	96030207		54.87395	4.035E+00	0.000E+00	1.098E+00	1.043E-01	1.674E-01	0.000E+00	8.074E+00	8.615E-02	0.000E+00
	369035	3756464	46.4243	0	0	1.8	1-HR	DIESEL	1ST	96020407		47.17379	3.469E+00	0.000E+00	9.439E-01	8.963E-02	1.439E-01	0.000E+00	6.941E+00	7.406E-02	0.000E+00
	369066	3756031	41.73402	0	0	1.8	1-HR	DIESEL	1ST	96012607		42.40779	3.118E+00	0.000E+00	8.486E-01	8.057E-02	1.293E-01	0.000E+00	6.240E+00	6.658E-02	0.000E+00
	367897	3756019	20.90122	0	0	1.8	1-HR	DIESEL	1ST	96030207		21.23866	1.562E+00	0.000E+00	4.250E-01	4.035E-02	6.478E-02	0.000E+00	3.125E+00	3.334E-02	0.000E+00

Table B-15

AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Onsite Locations

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
369454	3756947	44.33469	0	0	1.8	1-HR	DIESEL	1ST	96021407	1.352E-02	6.654E-01	0.000E+00	3.829E-02	1.170E+00	2.613E-02	6.636E-01	2.753E-01	1.509E-01	4.280E-02
369009	3756896	54.00212	0	0	1.8	1-HR	DIESEL	1ST	96030207	1.646E-02	8.105E-01	0.000E+00	4.664E-02	1.425E+00	3.183E-02	8.083E-01	3.353E-01	1.838E-01	5.213E-02
369035	3756464	46.4243	0	0	1.8	1-HR	DIESEL	1ST	96020407	1.415E-02	6.968E-01	0.000E+00	4.010E-02	1.225E+00	2.736E-02	6.949E-01	2.882E-01	1.580E-01	4.482E-02
369066	3756031	41.73402	0	0	1.8	1-HR	DIESEL	1ST	96012607	1.272E-02	6.264E-01	0.000E+00	3.605E-02	1.101E+00	2.460E-02	6.247E-01	2.591E-01	1.421E-01	4.029E-02
367897	3756019	20.90122	0	0	1.8	1-HR	DIESEL	1ST	96030207	6.372E-03	3.137E-01	0.000E+00	1.805E-02	5.516E-01	1.232E-02	3.128E-01	1.298E-01	7.115E-02	2.018E-02

**Table B-16**

**AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Onsite Locations**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*    PLOT FILE OF    HIGH 1ST    HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\*    FOR A TOTAL OF    5 RECEPTORS.

\*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	TOG Ratio	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-	isopropyl alcohol	
											(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
369454	3756947	11.79415	0	0	1.8	1-HR	PAVING	1ST	96021407	1.000	11.79415	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369009	3756896	14.47226	0	0	1.8	1-HR	PAVING	1ST	96030207		14.47226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369035	3756464	12.43183	0	0	1.8	1-HR	PAVING	1ST	96020407		12.43183	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369066	3756031	11.12256	0	0	1.8	1-HR	PAVING	1ST	96012607		11.12256	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367897	3756019	2.61273	0	0	1.8	1-HR	PAVING	1ST	96021607		2.61273	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-16

AERMOD Output File for CFTP Volatile Organic Compound Runs, Paving, Onsite Locations

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*     PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAVING

\*     FOR A TOTAL OF 5 RECEPTORS.

\*     FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

* X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	xylene, m- (ug/m <sup>3</sup> )	xylene, o- (ug/m <sup>3</sup> )	xylene, p- (ug/m <sup>3</sup> )
369454	3756947	11.79415	0	0	1.8	1-HR	PAVING	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	7.705E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369009	3756896	14.47226	0	0	1.8	1-HR	PAVING	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	9.455E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369035	3756464	12.43183	0	0	1.8	1-HR	PAVING	1ST	96020407	0.000E+00	0.000E+00	0.000E+00	8.122E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
369066	3756031	11.12256	0	0	1.8	1-HR	PAVING	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	7.266E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
367897	3756019	2.61273	0	0	1.8	1-HR	PAVING	1ST	96021607	0.000E+00	0.000E+00	0.000E+00	1.707E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Table B-17

AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Onsite Locations

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*     PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING

\*     FOR A TOTAL OF 5 RECEPTORS.

\*     FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

*	X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	Ratio	TOG (ug/m <sup>3</sup> )	acetaldehyde	acrolein	benzene	butadiene, 1,3-	ethylbenzene	ethylene glycol	formaldehyde	hexane, n-
													(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
*	369454	3756947	61.14574	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.000	61.14574	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.072E-01	7.838E-02	0.000E+00	1.834E+00
	369009	3756896	75.03013	0	0	1.8	1-HR	PAINTING	1ST	96030207		75.03013	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.451E-01	9.618E-02	0.000E+00	2.251E+00
	369035	3756464	64.45174	0	0	1.8	1-HR	PAINTING	1ST	96020407		64.45174	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.401E-01	8.262E-02	0.000E+00	1.933E+00
	369066	3756031	57.66392	0	0	1.8	1-HR	PAINTING	1ST	96012607		57.66392	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.727E-01	7.392E-02	0.000E+00	1.730E+00
	367897	3756019	13.54546	0	0	1.8	1-HR	PAINTING	1ST	96021607		13.54546	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.345E-01	1.736E-02	0.000E+00	4.063E-01

Table B-17

AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Onsite Locations

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DEFAULT ELEV   FLGPOL

\*   PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING

\*   FOR A TOTAL OF 5 RECEPTORS.

\*   FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

* X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	isopropyl alcohol (ug/m <sup>3</sup> )	methyl alcohol (ug/m <sup>3</sup> )	methyl ethyl ketone (ug/m <sup>3</sup> )	methyl t-butyl ether (ug/m <sup>3</sup> )	naphthalene (ug/m <sup>3</sup> )	propylene (ug/m <sup>3</sup> )	styrene (ug/m <sup>3</sup> )	toluene (ug/m <sup>3</sup> )	m-xylene, m- (ug/m <sup>3</sup> )
369454	3756947	61.14574	0	0	1.8	1-HR	PAINTING	1ST	96021407	1.900E-01	1.068E-01	7.220E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.659E+00	5.687E-02
369009	3756896	75.03013	0	0	1.8	1-HR	PAINTING	1ST	96030207	2.331E-01	1.310E-01	8.860E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.943E+00	6.978E-02
369035	3756464	64.45174	0	0	1.8	1-HR	PAINTING	1ST	96020407	2.002E-01	1.125E-01	7.611E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.964E+00	5.994E-02
369066	3756031	57.66392	0	0	1.8	1-HR	PAINTING	1ST	96012607	1.792E-01	1.007E-01	6.809E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.336E+00	5.363E-02
367897	3756019	13.54546	0	0	1.8	1-HR	PAINTING	1ST	96021607	4.209E-02	2.365E-02	1.599E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.254E+00	1.260E-02



**Table B-17**

**AERMOD Output File for CFTP Volatile Organic Compound Runs, Painting, Onsite Locations**

- \* AERMOD (07026): LAX CFTP CONSTRUCTION
- \* MODELING OPTIONS USED:
- \* CONC                    DFAULT ELEV    FLGPOL
- \*    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: PAINTING
- \*    FOR A TOTAL OF    5 RECEPTORS.
- \*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

*    X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)	xylene, o (ug/m <sup>3</sup> )	xylene, p (ug/m <sup>3</sup> )
369454	3756947	61.14574	0	0	1.8	1-HR	PAINTING	1ST	96021407	2.509E-02	2.509E-02
369009	3756896	75.03013	0	0	1.8	1-HR	PAINTING	1ST	96030207	3.079E-02	3.079E-02
369035	3756464	64.45174	0	0	1.8	1-HR	PAINTING	1ST	96020407	2.645E-02	2.645E-02
369066	3756031	57.66392	0	0	1.8	1-HR	PAINTING	1ST	96012607	2.366E-02	2.366E-02
367897	3756019	13.54546	0	0	1.8	1-HR	PAINTING	1ST	96021607	5.558E-03	5.558E-03

**Table B-18**

**AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Gasoline, Painting and Paving Onsite Locations**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

\*    FOR A TOTAL OF 5 RECEPTORS.

\*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	NET ID	DATE(CONC)
369454	3756947	118.03548	0	0	1.8	1-HR	ALL	1ST	96021407
369009	3756896	144.49524	0	0	1.8	1-HR	ALL	1ST	96030207
369035	3756464	124.21849	0	0	1.8	1-HR	ALL	1ST	96020407
369066	3756031	111.34911	0	0	1.8	1-HR	ALL	1ST	96012607
367897	3756019	37.08941	0	0	1.8	1-HR	ALL	1ST	96030207

Gas Peak	
+	
Dsl Peak	0.752% Max. Diff.
+	0.031% Average Diff.
Paving	-0.193% Min. Diff.
+	Difference
Painting	with All
117.93035	-0.089%
144.30264	-0.133%
123.99347	-0.181%
111.13390	-0.193%
37.36823	0.752%

**Table B-19**

**TOG Profiles for PM10 for the CFTP, Onsite Locations, Unmitigated**

**PM10 Profile 400 - Gasoline Vehicles - Catalyst**

**PM10 Profile 425 - Diesel Vehicle Exhaust**

Compound	%	
BROMINE	0.05	Ch
CALCIUM	0.55	?
CHLORINE	7	ACh
CHROMIUM	0.05	
CHROMIUM VI	0.00714	ChC
COBALT	0.05	?
COPPER	0.05	ACh
ELEM CARBON	20	
IRON	0.05	?
MANGANESE	0.05	Ch
NICKEL	0.05	AChC
NITRATES	0.55	
POTASSIUM	0.55	
SULFATES	45	ACh?
ZINC	0.05	Ch
OTHER	25.95	
AMMONIUM ION	0	
ARSENIC	0	
MERCURY	0	
VANADIUM	0	
ANTIMONY	0	
CADMIUM	0	
LEAD	0	
SELENIUM	0	
SILICON	0	

Compound	%	
ALUMINUM	0.0176	
AMMONIUM ION	0.3369	ACh
ANTIMONY	0.0036	Ch
ARSENIC	0.0005	AChC
BARIUM	0.0251	?
BROMINE	0.0018	Ch
CADMIUM	0.004	ChC
CALCIUM	0.0548	?
ELEM CARBON	26.1005	
ORGANIC CARBON	68.8796	
CARBONATE ION	0.0119	
CHLORINE	0.0344	ACh
CHROMIUM	0.0012	
CHROMIUM VI	0.000171	ChC
COBALT	0.0011	?
COPPER	0.0025	ACh
GALLIUM	0.0008	
INDIUM	0.0057	
IRON	0.0525	?
LANTHANUM	0.0181	
LEAD	0.0042	C
MANGANESE	0.004	Ch
MERCURY	0.003	ACh
MOLYBDENUM	0.0006	
NICKEL	0.0019	AChC
NITRATES	0.0291	
PALLADIUM	0.0016	
PHOSPHOROUS	0.0127	
POTASSIUM	0.0154	
RUBIDIUM	0.0007	
SELENIUM	0.001	Ch
SILICON	0.2488	Ch?
SILVER	0.0028	
SODIUM	0.0224	
STRONTIUM	0.0014	?
SULFUR	1.3269	?
TIN	0.008	?
TITANIUM	0.0054	?
VANADIUM	0.0029	A
YTTRIUM	0.0012	
ZINC	0.0438	Ch
ZIRCONIUM	0.0008	?
UNKNOWN	2.71	
SULFATES	0	

**LEGEND**  
 Red = Added by CDM  
 Yellow Highlight = Calif TAC  
 Blue HL = Analyzed in LGB EIR  
 A = Acute  
 Ch = Chronic non-cancer  
 C = Cancer

**Table B-19****TOG Profiles for PM10 for the CFTP, Onsite Locations, Unmitigated**

PM10 Profile 420 - Construction Dust			PM10 Profile 343 - Cement Prod./Concrete Batching		
Compound	%		Compound	%	
ALUMINIUM	9.4913		BARIUM	0.0200	?
AMMONIUM ION	0.0158	ACh	CADMIUM	0.0300	ChC
ANTIMONY	0.0019	Ch	CALCIUM	20.6100	?
ARSENIC	0.0024	AChC	CHROMIUM	0.0300	
BARIUM	0.0952	?	CHROMIUM VI	0.004286	
BROMINE	0.0035	Ch	COPPER	0.0300	ACh
CADMIUM	0.0039	ChC	ELEM CARBON	14.9300	
CALCIUM	4.0304	?	IRON	0.3500	?
ELEM CARBON	0.5412		LEAD	0.0300	C
ORGANIC CARBON	5.7162		MANGANESE	0.0300	Ch
CARBONATE ION	0.3293		MOLYBDENUM	0.0300	
CHLORINE	0.425	ACh	NICKEL	0.0300	AChC
CHROMIUM	0.0262		NITRATES	0.3500	
CHROMIUM VI	0.003743	ChC	POTASSIUM	2.0000	
COBALT	0.0135	?	RUBIDIUM	0.0300	
COPPER	0.0138	ACh	SELENIUM	0.0300	Ch
GALLIUM	0.0008		SILICON	10.0000	Ch?
INDIUM	0.0031		SILVER	0.0300	
IRON	5.9254	?	SULFATES	23.7600	ACh?
LANTHANUM	0.0074		TITANIUM	0.0300	?
LEAD	0.0701	C	ZINC	0.0300	Ch
MANGANESE	0.115	Ch	OTHER	27.6100	
MERCURY	0.002	ACh	AMMONIUM ION	0	
MOLYBDENUM	0.0008		ANTIMONY	0	
NICKEL	0.0076	AChC	ARSENIC	0	
NITRATES	0.1104		BROMINE	0	
PALLADIUM	0.0009		CHLORINE	0	
PHOSPHOROUS	0.1979		MERCURY	0	
POTASSIUM	2.2941		VANADIUM	0	
RUBIDIUM	0.0163				
SELENIUM	0.0003	Ch			
SILICON	24.4	Ch?			
SILVER	0.001				
SODIUM	0.3091				
STRONTIUM	0.0398	?			
SULFUR	0.3715	?			
TIN	0.0041	?			
TITANIUM	0.5747	?			
VANADIUM	0.0331	A			
YTTRIUM	0.0033				
ZINC	0.0664	Ch			
ZIRCONIUM	0.0118	?			
UNKNOWN	44.7236				
SULFATES	0				

**Table B-20**

**AERMOD Output File for CFTP PM10, Gasoline, Onsite Locations, Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\*            FOR A TOTAL OF    5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM V	COPPER	LEAD
369454	3756947	0.3103	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.552E-04	0.000E+00	2.172E-02	2.216E-05	1.552E-04	0.000E+00
369009	3756896	0.37766	0	0	1.8	1-HR	GASOLINE	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	1.888E-04	0.000E+00	2.644E-02	2.698E-05	1.888E-04	0.000E+00
369035	3756464	0.32441	0	0	1.8	1-HR	GASOLINE	1ST	96020407	0.000E+00	0.000E+00	0.000E+00	1.622E-04	0.000E+00	2.271E-02	2.317E-05	1.622E-04	0.000E+00
369066	3756031	0.29024	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	1.451E-04	0.000E+00	2.032E-02	2.073E-05	1.451E-04	0.000E+00
367897	3756019	0.14629	0	0	1.8	1-HR	GASOLINE	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	7.315E-05	0.000E+00	1.024E-02	1.045E-05	7.315E-05	0.000E+00

**Table B-20**

**AERMOD Output File for CFTP PM10, Gasoline, Onsite Locations, Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\*            FOR A TOTAL OF    5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

* X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.3103	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.552E-04	0.000E+00	1.552E-04	0.000E+00	0.000E+00	1.396E-01	0.000E+00	1.552E-04
369009	3756896	0.37766	0	0	1.8	1-HR	GASOLINE	1ST	96030207	1.888E-04	0.000E+00	1.888E-04	0.000E+00	0.000E+00	1.699E-01	0.000E+00	1.888E-04
369035	3756464	0.32441	0	0	1.8	1-HR	GASOLINE	1ST	96020407	1.622E-04	0.000E+00	1.622E-04	0.000E+00	0.000E+00	1.460E-01	0.000E+00	1.622E-04
369066	3756031	0.29024	0	0	1.8	1-HR	GASOLINE	1ST	96012607	1.451E-04	0.000E+00	1.451E-04	0.000E+00	0.000E+00	1.306E-01	0.000E+00	1.451E-04
367897	3756019	0.14629	0	0	1.8	1-HR	GASOLINE	1ST	96030207	7.315E-05	0.000E+00	7.315E-05	0.000E+00	0.000E+00	6.583E-02	0.000E+00	7.315E-05

**Table B-21**

**AERMOD Output File for CFTP PM10, Diesel, Onsite Locations , Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*            FOR A TOTAL OF    5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM V	COPPER	LEAD
369454	3756947	19.38224	0	0	1.8	1-HR	DIESEL	1ST	96021407	6.530E-02	6.978E-04	9.691E-05	3.489E-04	7.753E-04	6.667E-03	3.323E-05	4.846E-04	8.141E-04
369009	3756896	23.64741	0	0	1.8	1-HR	DIESEL	1ST	96030207	7.967E-02	8.513E-04	1.182E-04	4.257E-04	9.459E-04	8.135E-03	4.054E-05	5.912E-04	9.932E-04
369035	3756464	20.36438	0	0	1.8	1-HR	DIESEL	1ST	96020407	6.861E-02	7.331E-04	1.018E-04	3.666E-04	8.146E-04	7.005E-03	3.491E-05	5.091E-04	8.553E-04
369066	3756031	18.31467	0	0	1.8	1-HR	DIESEL	1ST	96012607	6.170E-02	6.593E-04	9.157E-05	3.297E-04	7.326E-04	6.300E-03	3.140E-05	4.579E-04	7.692E-04
367897	3756019	9.20748	0	0	1.8	1-HR	DIESEL	1ST	96030207	3.102E-02	3.315E-04	4.604E-05	1.657E-04	3.683E-04	3.167E-03	1.578E-05	2.302E-04	3.867E-04

**Table B-21**

**AERMOD Output File for CFTP PM10, Diesel, Onsite Locations , Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*            FOR A TOTAL OF 5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	DIESEL PM
369454	3756947	19.38224	0	0	1.8	1-HR	DIESEL	1ST	96021407	7.753E-04	5.815E-04	3.683E-04	1.938E-04	4.822E-02	0.000E+00	5.621E-04	8.489E-03	1.938E+01
369009	3756896	23.64741	0	0	1.8	1-HR	DIESEL	1ST	96030207	9.459E-04	7.094E-04	4.493E-04	2.365E-04	5.883E-02	0.000E+00	6.858E-04	1.036E-02	2.365E+01
369035	3756464	20.36438	0	0	1.8	1-HR	DIESEL	1ST	96020407	8.146E-04	6.109E-04	3.869E-04	2.036E-04	5.067E-02	0.000E+00	5.906E-04	8.920E-03	2.036E+01
369066	3756031	18.31467	0	0	1.8	1-HR	DIESEL	1ST	96012607	7.326E-04	5.494E-04	3.480E-04	1.831E-04	4.557E-02	0.000E+00	5.311E-04	8.022E-03	1.831E+01
367897	3756019	9.20748	0	0	1.8	1-HR	DIESEL	1ST	96030207	3.683E-04	2.762E-04	1.749E-04	9.207E-05	2.291E-02	0.000E+00	2.670E-04	4.033E-03	9.207E+00



Table B-22

AERMOD Output File for CFTP PM10, Batch, Onsite Locations , Unmitigated

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: BATCH

\*            FOR A TOTAL OF 5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

\*            X            Y            AVERAGE ZELEV    ZHILL    ZFLAG    AVE    GRP    HIVAL    DATE(CONC)

											AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE
369454	3756947	0.47387	0	0	1.8	1-HR	BATCH	1ST	96100807		0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.422E-04	0.000E+00	2.031E-05	1.422E-04	1.422E-04	1.422E-04
369009	3756896	0.67075	0	0	1.8	1-HR	BATCH	1ST	96092907		0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.012E-04	0.000E+00	2.875E-05	2.012E-04	2.012E-04	2.012E-04
369035	3756464	0.76907	0	0	1.8	1-HR	BATCH	1ST	96022008		0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.307E-04	0.000E+00	3.296E-05	2.307E-04	2.307E-04	2.307E-04
369066	3756031	0.65581	0	0	1.8	1-HR	BATCH	1ST	96021407		0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.967E-04	0.000E+00	2.811E-05	1.967E-04	1.967E-04	1.967E-04
367897	3756019	6.06509	0	0	1.8	1-HR	BATCH	1ST	96100107		0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.820E-03	0.000E+00	2.599E-04	1.820E-03	1.820E-03	1.820E-03

**Table B-22**

**AERMOD Output File for CFTP PM10, Batch, Onsite Locations , Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*        PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: BATCH

\*        FOR A TOTAL OF    5 RECEPTORS.

\*        FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

\*        X            Y        AVERAGE ZELEV    ZHILL    ZFLAG    AVE    GRP    HIVAL    DATE(CONC)

										MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.47387	0	0	1.8	1-HR	BATCH	1ST	96100807	0.000E+00	1.422E-04	1.422E-04	4.739E-02	1.126E-01	0.000E+00	1.422E-04
369009	3756896	0.67075	0	0	1.8	1-HR	BATCH	1ST	96092907	0.000E+00	2.012E-04	2.012E-04	6.708E-02	1.594E-01	0.000E+00	2.012E-04
369035	3756464	0.76907	0	0	1.8	1-HR	BATCH	1ST	96022008	0.000E+00	2.307E-04	2.307E-04	7.691E-02	1.827E-01	0.000E+00	2.307E-04
369066	3756031	0.65581	0	0	1.8	1-HR	BATCH	1ST	96021407	0.000E+00	1.967E-04	1.967E-04	6.558E-02	1.558E-01	0.000E+00	1.967E-04
367897	3756019	6.06509	0	0	1.8	1-HR	BATCH	1ST	96100107	0.000E+00	1.820E-03	1.820E-03	6.065E-01	1.441E+00	0.000E+00	1.820E-03

**Table B-23**

**AERMOD Output File for CFTP PM10, Fugitive, Onsite Locations , Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*    PLOT FILE OF    HIGH 1ST    HIGH    1-HR VALUES FOR SOURCE GROUP: FUG\_DUST

\*    FOR A TOTAL OF    5 RECEPTORS.

\*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

\*    X            Y            AVERAGE ZELEV    ZHILL    ZFLAG    AVE            GRP            HIVAL    DATE(CONC)

										AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	139.39235	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	2.202E-02	2.648E-03	3.345E-03	4.879E-03	5.436E-03	5.924E-01	5.217E-03	1.924E-02	9.771E-02
369009	3756896	183.16522	0	0	1.8	1-HR	FUG_DUST	1ST	96030207	2.894E-02	3.480E-03	4.396E-03	6.411E-03	7.143E-03	7.785E-01	6.856E-03	2.528E-02	1.284E-01
369035	3756464	164.20212	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	2.594E-02	3.120E-03	3.941E-03	5.747E-03	6.404E-03	6.979E-01	6.146E-03	2.266E-02	1.151E-01
369066	3756031	125.04012	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	1.976E-02	2.376E-03	3.001E-03	4.376E-03	4.877E-03	5.314E-01	4.680E-03	1.726E-02	8.765E-02
367897	3756019	25.35485	0	0	1.8	1-HR	FUG_DUST	1ST	96021607	4.006E-03	4.817E-04	6.085E-04	8.874E-04	9.888E-04	1.078E-01	9.490E-04	3.499E-03	1.777E-02

**Table B-23**

**AERMOD Output File for CFTP PM10, Fugitive, Onsite Locations , Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	139.39235	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	1.603E-01	2.788E-03	1.059E-02	4.182E-04	3.401E+01	0.000E+00	4.614E-02	9.256E-02
369009	3756896	183.16522	0	0	1.8	1-HR	FUG_DUST	1ST	96030207	2.106E-01	3.663E-03	1.392E-02	5.495E-04	4.469E+01	0.000E+00	6.063E-02	1.216E-01
369035	3756464	164.20212	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	1.888E-01	3.284E-03	1.248E-02	4.926E-04	4.007E+01	0.000E+00	5.435E-02	1.090E-01
369066	3756031	125.04012	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	1.438E-01	2.501E-03	9.503E-03	3.751E-04	3.051E+01	0.000E+00	4.139E-02	8.303E-02
367897	3756019	25.35485	0	0	1.8	1-HR	FUG_DUST	1ST	96021607	2.916E-02	5.071E-04	1.927E-03	7.606E-05	6.187E+00	0.000E+00	8.392E-03	1.684E-02

**Table B-24**

**AERMOD Output File for CFTP PM10, Crusher, Onsite Locations, Umitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	0.04947	0	0	1.8	1-HR	CRUSHER	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.484E-05	0.000E+00	2.120E-06	1.484E-05	1.484E-05
369009	3756896	0.08316	0	0	1.8	1-HR	CRUSHER	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.495E-05	0.000E+00	3.564E-06	2.495E-05	2.495E-05
369035	3756464	0.0804	0	0	1.8	1-HR	CRUSHER	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.412E-05	0.000E+00	3.446E-06	2.412E-05	2.412E-05
369066	3756031	0.05826	0	0	1.8	1-HR	CRUSHER	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.748E-05	0.000E+00	2.497E-06	1.748E-05	1.748E-05
367897	3756019	1.08844	0	0	1.8	1-HR	CRUSHER	1ST	96021708	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.265E-04	0.000E+00	4.665E-05	3.265E-04	3.265E-04

**Table B-24**

**AERMOD Output File for CFTP PM10, Crusher, Onsite Locations, Umitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\*                    FOR A TOTAL OF 5 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

* X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.04947	0	0	1.8	1-HR	CRUSHER	1ST	96100807	1.484E-05	0.000E+00	1.484E-05	1.484E-05	4.947E-03	1.175E-02	0.000E+00	1.484E-05
369009	3756896	0.08316	0	0	1.8	1-HR	CRUSHER	1ST	96100807	2.495E-05	0.000E+00	2.495E-05	2.495E-05	8.316E-03	1.976E-02	0.000E+00	2.495E-05
369035	3756464	0.0804	0	0	1.8	1-HR	CRUSHER	1ST	96021407	2.412E-05	0.000E+00	2.412E-05	2.412E-05	8.040E-03	1.910E-02	0.000E+00	2.412E-05
369066	3756031	0.05826	0	0	1.8	1-HR	CRUSHER	1ST	96021407	1.748E-05	0.000E+00	1.748E-05	1.748E-05	5.826E-03	1.384E-02	0.000E+00	1.748E-05
367897	3756019	1.08844	0	0	1.8	1-HR	CRUSHER	1ST	96021708	3.265E-04	0.000E+00	3.265E-04	3.265E-04	1.088E-01	2.586E-01	0.000E+00	3.265E-04

**Table B-25**

**AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Gasoline and Dust, Onsite Locations, Unmitigated**

\* AERMOD (07026): LAX CFTP Construction

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

\*    FOR A TOTAL OF 5 RECEPTORS.

\*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

\*    X            Y            VERAGECON    ZELEV        ZHILL        ZFLAG

\*    \_\_\_\_\_

X	Y	VERAGECON	ZELEV	ZHILL	ZFLAG
369,454	3,756,947	159.21083	0	0	1.8
369,009	3,756,896	207.19957	0	0	1.8
369,035	3,756,464	184.89941	0	0	1.8
369,066	3,756,031	143.65120	0	0	1.8
367,897	3,756,019	34.57452	0	0	1.8

AVE            GRP            HIVAL        DATE(CONC)

\_\_\_\_\_

AVE	GRP	HIVAL	DATE(CONC)
1-HR	ALL	1ST	96021407
1-HR	ALL	1ST	96030207
1-HR	ALL	1ST	96020407
1-HR	ALL	1ST	96012607
1-HR	ALL	1ST	96021607

Fug Dust Pk

+

Gas Peak

+

Dsl Peak

17.93%	Max
--------	-----

3.87%	Avg
-------	-----

0.2185%	Min
---------	-----

Difference

with All

_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
159.55876	0.2185%	207.86104	0.3192%	185.65998	0.4113%	144.30084	0.4522%	40.77371	17.9299%			

**Table B-26**  
**TOG Profiles for PM10 for the CFTP, Onsite Locations, Mitigated**

**PM10 Profile 400 - Gasoline Vehicles - Catalyst      PM10 Profile 425 - Diesel Vehicle Exhaust**

PM10 Profile 400 - Gasoline Vehicles - Catalyst			PM10 Profile 425 - Diesel Vehicle Exhaust		
Compound	%		Compound	%	
BROMINE	0.05	Ch	ALUMINUM	0.0176	
CALCIUM	0.55	?	AMMONIUM ION	0.3369	ACh
CHLORINE	7	ACh	ANTIMONY	0.0036	Ch
CHROMIUM	0.05		ARSENIC	0.0005	AChC
CHROMIUM VI	0.00714	ChC	BARIUM	0.0251	?
COBALT	0.05	?	BROMINE	0.0018	Ch
COPPER	0.05	ACh	CADMIUM	0.004	ChC
ELEM CARBON	20		CALCIUM	0.0548	?
IRON	0.05	?	ELEM CARBON	26.1005	
MANGANESE	0.05	Ch	ORGANIC CARBON	68.8796	
NICKEL	0.05	AChC	CARBONATE ION	0.0119	
NITRATES	0.55		CHLORINE	0.0344	ACh
POTASSIUM	0.55		CHROMIUM	0.0012	
SULFATES	45	ACh?	CHROMIUM VI	0.000171	ChC
ZINC	0.05	Ch	COBALT	0.0011	?
OTHER	25.95		COPPER	0.0025	ACh
AMMONIUM ION	0		GALLIUM	0.0008	
ARSENIC	0		INDIUM	0.0057	
MERCURY	0		IRON	0.0525	?
VANADIUM	0		LANTHANUM	0.0181	
ANTIMONY	0		LEAD	0.0042	C
CADMIUM	0		MANGANESE	0.004	Ch
LEAD	0		MERCURY	0.003	ACh
SELENIUM	0		MOLYBDENUM	0.0006	
SILICON	0		NICKEL	0.0019	AChC
			NITRATES	0.0291	
			PALLADIUM	0.0016	
			PHOSPHOROUS	0.0127	
			POTASSIUM	0.0154	
			RUBIDIUM	0.0007	
			SELENIUM	0.001	Ch
			SILICON	0.2488	Ch?
			SILVER	0.0028	
			SODIUM	0.0224	
			STRONTIUM	0.0014	?
			SULFUR	1.3269	?
			TIN	0.008	?
			TITANIUM	0.0054	?
			VANADIUM	0.0029	A
			YTTRIUM	0.0012	
			ZINC	0.0438	Ch
			ZIRCONIUM	0.0008	?
			UNKNOWN	2.71	
			SULFATES	0	

**LEGEND**  
Red = Added by CDM  
Yellow Highlight = Calif TAC  
Blue HL = Analyzed in LGB EIR  
A = Acute  
Ch = Chronic non-cancer  
C = Cancer



**Table B-26**

**TOG Profiles for PM10 for the CFTP, Onsite Locations, Mitigated**

**PM10 Profile 420 - Construction Dust      PM10 Profile 343 - Cement Prod./Concrete Batching**

PM10 Profile 420 - Construction Dust			PM10 Profile 343 - Cement Prod./Concrete Batching		
Compound	%		Compound	%	
ALUMINUM	9.4913		BARIUM	0.0200	?
AMMONIUM ION	0.0158	ACh	CADMIUM	0.0300	ChC
ANTIMONY	0.0019	Ch	CALCIUM	20.6100	?
ARSENIC	0.0024	AChC	CHROMIUM	0.0300	
BARIUM	0.0952	?	CHROMIUM VI	0.004286	
BROMINE	0.0035	Ch	COPPER	0.0300	ACh
CADMIUM	0.0039	ChC	ELEM CARBON	14.9300	
CALCIUM	4.0304	?	IRON	0.3500	?
ELEM CARBON	0.5412		LEAD	0.0300	C
ORGANIC CARBON	5.7162		MANGANESE	0.0300	Ch
CARBONATE ION	0.3293		MOLYBDENUM	0.0300	
CHLORINE	0.425	ACh	NICKEL	0.0300	AChC
CHROMIUM	0.0262		NITRATES	0.3500	
CHROMIUM VI	0.003743	ChC	POTASSIUM	2.0000	
COBALT	0.0135	?	RUBIDIUM	0.0300	
COPPER	0.0138	ACh	SELENIUM	0.0300	Ch
GALLIUM	0.0008		SILICON	10.0000	Ch?
INDIUM	0.0031		SILVER	0.0300	
IRON	5.9254	?	SULFATES	23.7600	ACh?
LANTHANUM	0.0074		TITANIUM	0.0300	?
LEAD	0.0701	C	ZINC	0.0300	Ch
MANGANESE	0.115	Ch	OTHER	27.6100	
MERCURY	0.002	ACh	AMMONIUM ION	0	
MOLYBDENUM	0.0008		ANTIMONY	0	
NICKEL	0.0076	AChC	ARSENIC	0	
NITRATES	0.1104		BROMINE	0	
PALLADIUM	0.0009		CHLORINE	0	
PHOSPHOROUS	0.1979		MERCURY	0	
POTASSIUM	2.2941		VANADIUM	0	
RUBIDIUM	0.0163				
SELENIUM	0.0003	Ch			
SILICON	24.4	Ch?			
SILVER	0.001				
SODIUM	0.3091				
STRONTIUM	0.0398	?			
SULFUR	0.3715	?			
TIN	0.0041	?			
TITANIUM	0.5747	?			
VANADIUM	0.0331	A			
YTTRIUM	0.0033				
ZINC	0.0664	Ch			
ZIRCONIUM	0.0118	?			
UNKNOWN	44.7236				
SULFATES	0				

**Table B-27**

**AERMOD Output File for CFTP PM10, Gasoline, Onsite Locations, Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	0.3103	0	0	1.8	1-HR	GASOLINE	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	1.552E-04	0.000E+00	2.172E-02	2.216E-05	1.552E-04	0.000E+00
369009	3756896	0.37766	0	0	1.8	1-HR	GASOLINE	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	1.888E-04	0.000E+00	2.644E-02	2.698E-05	1.888E-04	0.000E+00
369035	3756464	0.32441	0	0	1.8	1-HR	GASOLINE	1ST	96020407	0.000E+00	0.000E+00	0.000E+00	1.622E-04	0.000E+00	2.271E-02	2.317E-05	1.622E-04	0.000E+00
369066	3756031	0.29024	0	0	1.8	1-HR	GASOLINE	1ST	96012607	0.000E+00	0.000E+00	0.000E+00	1.451E-04	0.000E+00	2.032E-02	2.073E-05	1.451E-04	0.000E+00
367897	3756019	0.14629	0	0	1.8	1-HR	GASOLINE	1ST	96030207	0.000E+00	0.000E+00	0.000E+00	7.315E-05	0.000E+00	1.024E-02	1.045E-05	7.315E-05	0.000E+00

**Table B-27**

**AERMOD Output File for CFTP PM10, Gasoline, Onsite Locations, Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: GASOLINE

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.3103	0	0	1.8	1-HR	GASOLINE	1ST	96021407	1.552E-04	0.000E+00	1.552E-04	0.000E+00	0.000E+00	1.396E-01	0.000E+00	1.552E-04
369009	3756896	0.37766	0	0	1.8	1-HR	GASOLINE	1ST	96030207	1.888E-04	0.000E+00	1.888E-04	0.000E+00	0.000E+00	1.699E-01	0.000E+00	1.888E-04
369035	3756464	0.32441	0	0	1.8	1-HR	GASOLINE	1ST	96020407	1.622E-04	0.000E+00	1.622E-04	0.000E+00	0.000E+00	1.460E-01	0.000E+00	1.622E-04
369066	3756031	0.29024	0	0	1.8	1-HR	GASOLINE	1ST	96012607	1.451E-04	0.000E+00	1.451E-04	0.000E+00	0.000E+00	1.306E-01	0.000E+00	1.451E-04
367897	3756019	0.14629	0	0	1.8	1-HR	GASOLINE	1ST	96030207	7.315E-05	0.000E+00	7.315E-05	0.000E+00	0.000E+00	6.583E-02	0.000E+00	7.315E-05

**Table B-28**

**AERMOD Output File for CFTP PM10, Diesel, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	11.74074	0	0	1.8	1-HR	DIESEL	1ST	96021407	3.955E-02	4.227E-04	5.870E-05	2.113E-04	4.696E-04	4.039E-03	2.013E-05	2.935E-04	4.931E-04
369009	3756896	14.33973	0	0	1.8	1-HR	DIESEL	1ST	96030207	4.831E-02	5.162E-04	7.170E-05	2.581E-04	5.736E-04	4.933E-03	2.458E-05	3.585E-04	6.023E-04
369035	3756464	12.36282	0	0	1.8	1-HR	DIESEL	1ST	96020407	4.165E-02	4.451E-04	6.181E-05	2.225E-04	4.945E-04	4.253E-03	2.119E-05	3.091E-04	5.192E-04
369066	3756031	11.1215	0	0	1.8	1-HR	DIESEL	1ST	96012607	3.747E-02	4.004E-04	5.561E-05	2.002E-04	4.449E-04	3.826E-03	1.907E-05	2.780E-04	4.671E-04
367897	3756019	5.60274	0	0	1.8	1-HR	DIESEL	1ST	96030207	1.888E-02	2.017E-04	2.801E-05	1.008E-04	2.241E-04	1.927E-03	9.605E-06	1.401E-04	2.353E-04

**Table B-28**

**AERMOD Output File for CFTP PM10, Diesel, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*        PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: DIESEL

\*        FOR A TOTAL OF 5 RECEPTORS.

\*        FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC	DIESEL PM
369454	3756947	11.74074	0	0	1.8	1-HR	DIESEL	1ST	96021407	4.696E-04	3.522E-04	2.231E-04	1.174E-04	2.921E-02	0.000E+00	3.405E-04	5.142E-03	1.174E+01
369009	3756896	14.33973	0	0	1.8	1-HR	DIESEL	1ST	96030207	5.736E-04	4.302E-04	2.725E-04	1.434E-04	3.568E-02	0.000E+00	4.159E-04	6.281E-03	1.434E+01
369035	3756464	12.36282	0	0	1.8	1-HR	DIESEL	1ST	96020407	4.945E-04	3.709E-04	2.349E-04	1.236E-04	3.076E-02	0.000E+00	3.585E-04	5.415E-03	1.236E+01
369066	3756031	11.1215	0	0	1.8	1-HR	DIESEL	1ST	96012607	4.449E-04	3.336E-04	2.113E-04	1.112E-04	2.767E-02	0.000E+00	3.225E-04	4.871E-03	1.112E+01
367897	3756019	5.60274	0	0	1.8	1-HR	DIESEL	1ST	96030207	2.241E-04	1.681E-04	1.065E-04	5.603E-05	1.394E-02	0.000E+00	1.625E-04	2.454E-03	5.603E+00

**Table B-29**

**AERMOD Output File for CFTP PM10, Fugitive, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	45.64582	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	7.212E-03	8.673E-04	1.095E-03	1.598E-03	1.780E-03	1.940E-01	1.708E-03	6.299E-03	3.200E-02
369009	3756896	59.98787	0	0	1.8	1-HR	FUG_DUST	1ST	96030207	9.478E-03	1.140E-03	1.440E-03	2.100E-03	2.340E-03	2.549E-01	2.245E-03	8.278E-03	4.205E-02
369035	3756464	53.78576	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	8.498E-03	1.022E-03	1.291E-03	1.883E-03	2.098E-03	2.286E-01	2.013E-03	7.422E-03	3.770E-02
369066	3756031	40.96507	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	6.472E-03	7.783E-04	9.832E-04	1.434E-03	1.598E-03	1.741E-01	1.533E-03	5.653E-03	2.872E-02
367897	3756019	8.39632	0	0	1.8	1-HR	FUG_DUST	1ST	96021607	1.327E-03	1.595E-04	2.015E-04	2.939E-04	3.275E-04	3.568E-02	3.143E-04	1.159E-03	5.886E-03

**Table B-29**

**AERMOD Output File for CFTP PM10, Fugitive, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*            PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: FUG\_DUST

\*            FOR A TOTAL OF 5 RECEPTORS.

\*            FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	45.64582	0	0	1.8	1-HR	FUG_DUST	1ST	96021407	5.249E-02	9.129E-04	3.469E-03	1.369E-04	1.114E+01	0.000E+00	1.511E-02	3.031E-02
369009	3756896	59.98787	0	0	1.8	1-HR	FUG_DUST	1ST	96030207	6.899E-02	1.200E-03	4.559E-03	1.800E-04	1.464E+01	0.000E+00	1.986E-02	3.983E-02
369035	3756464	53.78576	0	0	1.8	1-HR	FUG_DUST	1ST	96020407	6.185E-02	1.076E-03	4.088E-03	1.614E-04	1.312E+01	0.000E+00	1.780E-02	3.571E-02
369066	3756031	40.96507	0	0	1.8	1-HR	FUG_DUST	1ST	96012607	4.711E-02	8.193E-04	3.113E-03	1.229E-04	9.995E+00	0.000E+00	1.356E-02	2.720E-02
367897	3756019	8.39632	0	0	1.8	1-HR	FUG_DUST	1ST	96021607	9.656E-03	1.679E-04	6.381E-04	2.519E-05	2.049E+00	0.000E+00	2.779E-03	5.575E-03

**Table B-30**

**AERMOD Output File for CFTP PM10, Batch, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF    HIGH 1ST    HIGH 1-HR VALUES FOR SOURCE GROUP: BATCH

\*                    FOR A TOTAL OF    5 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	0.23713	0	0	1.8	1-HR	BATCH	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.114E-05	0.000E+00	1.016E-05	7.114E-05	7.114E-05
369009	3756896	0.33565	0	0	1.8	1-HR	BATCH	1ST	96092907	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.007E-04	0.000E+00	1.439E-05	1.007E-04	1.007E-04
369035	3756464	0.38485	0	0	1.8	1-HR	BATCH	1ST	96022008	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.155E-04	0.000E+00	1.649E-05	1.155E-04	1.155E-04
369066	3756031	0.32817	0	0	1.8	1-HR	BATCH	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.845E-05	0.000E+00	1.406E-05	9.845E-05	9.845E-05
367897	3756019	3.03501	0	0	1.8	1-HR	BATCH	1ST	96100107	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.105E-04	0.000E+00	1.301E-04	9.105E-04	9.105E-04



**Table B-30**

**AERMOD Output File for CFTP PM10, Batch, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC DFAULT ELEV FLGPOL

\* PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: BATCH

\* FOR A TOTAL OF 5 RECEPTORS.

\* FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.23713	0	0	1.8	1-HR	BATCH	1ST	96100807	7.114E-05	0.000E+00	7.114E-05	7.114E-05	2.371E-02	5.634E-02	0.000E+00	7.114E-05
369009	3756896	0.33565	0	0	1.8	1-HR	BATCH	1ST	96092907	1.007E-04	0.000E+00	1.007E-04	1.007E-04	3.357E-02	7.975E-02	0.000E+00	1.007E-04
369035	3756464	0.38485	0	0	1.8	1-HR	BATCH	1ST	96022008	1.155E-04	0.000E+00	1.155E-04	1.155E-04	3.849E-02	9.144E-02	0.000E+00	1.155E-04
369066	3756031	0.32817	0	0	1.8	1-HR	BATCH	1ST	96021407	9.845E-05	0.000E+00	9.845E-05	9.845E-05	3.282E-02	7.797E-02	0.000E+00	9.845E-05
367897	3756019	3.03501	0	0	1.8	1-HR	BATCH	1ST	96100107	9.105E-04	0.000E+00	9.105E-04	9.105E-04	3.035E-01	7.211E-01	0.000E+00	9.105E-04

**Table B-31**

**AERMOD Output File for CFTP PM10, Crusher, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC            DFAULT ELEV    FLGPOL

\*    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\*    FOR A TOTAL OF 5 RECEPTORS.

\*    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	AMMONIUM ION	ANTIMONY	ARSENIC	BROMINE	CADIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD
369454	3756947	0.00546	0	0	1.8	1-HR	CRUSHER	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.638E-06	0.000E+00	2.340E-07	1.638E-06	1.638E-06
369009	3756896	0.00918	0	0	1.8	1-HR	CRUSHER	1ST	96100807	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.754E-06	0.000E+00	3.934E-07	2.754E-06	2.754E-06
369035	3756464	0.00888	0	0	1.8	1-HR	CRUSHER	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.664E-06	0.000E+00	3.806E-07	2.664E-06	2.664E-06
369066	3756031	0.00643	0	0	1.8	1-HR	CRUSHER	1ST	96021407	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.929E-06	0.000E+00	2.756E-07	1.929E-06	1.929E-06
367897	3756019	0.12015	0	0	1.8	1-HR	CRUSHER	1ST	96021708	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.605E-05	0.000E+00	5.149E-06	3.605E-05	3.605E-05

**Table B-31**

**AERMOD Output File for CFTP PM10, Crusher, Onsite Locations , Mitigated**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                    DFAULT ELEV    FLGPOL

\*                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: CRUSHER

\*                    FOR A TOTAL OF 5 RECEPTORS.

\*                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

* X	Y	AVERAGE	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE(CONC)	MANGANESE	MERCURY	NICKEL	SELENIUM	SILICON	SULFATES	VANADIUM	ZINC
369454	3756947	0.00546	0	0	1.8	1-HR	CRUSHER	1ST	96100807	1.638E-06	0.000E+00	1.638E-06	1.638E-06	5.460E-04	1.297E-03	0.000E+00	1.638E-06
369009	3756896	0.00918	0	0	1.8	1-HR	CRUSHER	1ST	96100807	2.754E-06	0.000E+00	2.754E-06	2.754E-06	9.180E-04	2.181E-03	0.000E+00	2.754E-06
369035	3756464	0.00888	0	0	1.8	1-HR	CRUSHER	1ST	96021407	2.664E-06	0.000E+00	2.664E-06	2.664E-06	8.880E-04	2.110E-03	0.000E+00	2.664E-06
369066	3756031	0.00643	0	0	1.8	1-HR	CRUSHER	1ST	96021407	1.929E-06	0.000E+00	1.929E-06	1.929E-06	6.430E-04	1.528E-03	0.000E+00	1.929E-06
367897	3756019	0.12015	0	0	1.8	1-HR	CRUSHER	1ST	96021708	3.605E-05	0.000E+00	3.605E-05	3.605E-05	1.202E-02	2.855E-02	0.000E+00	3.605E-05

**Table B-32**

**AERMOD Output File for CFTP Volatile Organic Compound Runs, Diesel, Gasoline, Painting and Paving Onsite Locations**

\* AERMOD (07026): LAX CFTP CONSTRUCTION

\* MODELING OPTIONS USED:

\* CONC                                    DFAULT ELEV    FLGPOL  
 \*                                    PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL  
 \*                                    FOR A TOTAL OF        5 RECEPTORS.  
 \*                                    FORMAT: (3(1X,F13.5),3(1X,F8.2),3X,A5,2X,A8,2X,A4,6X,A8,2X,I8)

X	Y	AVERAGECONC	ZELEV	ZHILL	ZFLAG	AVE	GRP	HIVAL	DATE (CONC)
369,454	3,756,947	57.75185	0	0	1.8	1-HR	ALL	1ST	96021407
369,009	3,756,896	74.70959	0	0	1.8	1-HR	ALL	1ST	96030207
369,035	3,756,464	66.47669	0	0	1.8	1-HR	ALL	1ST	96020407
369,066	3,756,031	52.37977	0	0	1.8	1-HR	ALL	1ST	96012607
367,897	3,756,019	14.05030	0	0	1.8	1-HR	ALL	1ST	96021607

Fug Dust Pk	22.28%	Max
+	4.85%	Avg
Gas Peak	0.3154%	Min
+	Difference	
Dsl Peak	with All	
57.93399	0.3154%	
75.04091	0.4435%	
66.85784	0.5734%	
52.70498	0.6209%	
17.18036	22.2775%	

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**Attachment C**

**Incremental Cancer Risk and Chronic Non-Cancer Hazard  
Calculations  
for CFTP Construction Activities**

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**Table C-1**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Lifetime Exposure - Unmitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Child		School Child		Residential Adult							
	Inhalation rate	15 (m <sup>3</sup> /day)	6 (m <sup>3</sup> /day)	6 (m <sup>3</sup> /day)	20 (m <sup>3</sup> /day)							
Exposure Duration	6 (years)	6 (years)	6 (years)	70 (years)								
Exposure Frequency	350 (days/year)	200 (days/year)	350 (days/year)	350 (days/year)								
Body Weight	15 (kg)	40 (kg)	40 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	2190 (d)	2190 (d)	2190 (d)	25550 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria					Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Child Resident	Cancer Risk to School Child	Cancer Risk to Adult+Child Resident	Cancer Risk to Adult Resident	Hazard Quotient Child Resident	Hazard Quotient School Child	Hazard Quotient Adult Resident
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	1.75E-09	1.50E-10	7.10E-09	5.85E-09	7.96E-04	6.82E-05	2.27E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	NC	3.04E-05	2.60E-06	8.68E-06
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	4.86E-09	4.16E-10	1.97E-08	1.62E-08	3.31E-05	2.83E-06	9.45E-06
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	2.83E-09	2.42E-10	1.14E-08	9.42E-09	9.63E-05	8.25E-06	2.75E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	5.16E-10	4.42E-11	2.09E-09	1.72E-09	1.21E-06	1.04E-07	3.46E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	NC	6.80E-07	5.83E-08	1.94E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	7.38E-09	6.33E-10	2.99E-08	2.46E-08	4.78E-03	4.10E-04	1.37E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	NC	9.35E-07	8.01E-08	2.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	NC	1.01E-07	8.68E-09	2.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	NC	3.38E-07	2.90E-08	9.65E-08
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	5.84E-13	5.01E-14	2.36E-12	1.95E-12	8.74E-09	7.49E-10	2.50E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	NC	8.57E-07	7.35E-08	2.45E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	NC	6.46E-08	5.54E-09	1.85E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	NC	7.05E-05	6.05E-06	2.02E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	NC	2.07E-06	1.78E-07	5.92E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	8.09E-09	6.93E-10	3.27E-08	2.70E-08	3.06E-04	2.62E-05	8.74E-05
Ammonium Ion	4.86E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	NC	8.16E-07	6.99E-08	2.33E-07
Bromine	1.80E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Chlorine	1.98E-04	NA	NA	NA	5.71E-05	NC	NC	NC	NC	3.32E-03	2.85E-04	9.50E-04
Silicon	1.04E-02	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Sulfates	4.86E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Antimony	1.25E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Arsenic	1.07E-06	1.51E+01	1.20E+01	NA	8.57E-06	1.06E-09	9.04E-11	4.27E-09	3.52E-09	1.20E-04	1.03E-05	3.42E-05
Cadmium	2.62E-06	6.30E+00	1.50E+01	NA	5.71E-06	3.24E-09	2.77E-10	1.31E-08	1.08E-08	4.40E-04	3.78E-05	1.26E-04
Copper	6.70E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Chromium (VI)	1.68E-06	4.20E+01	5.10E+02	2.86E-05	NA	7.03E-08	6.03E-09	2.85E-07	2.34E-07	5.63E-05	4.82E-06	1.61E-05
Lead	3.04E-05	NA	4.20E-02	NA	NA	1.05E-10	9.01E-12	4.25E-10	3.50E-10	NC	NC	NC
Manganese	4.94E-05	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	NC	8.29E-04	7.10E-05	2.37E-04
Mercury	1.21E-06	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	NC	4.52E-05	3.88E-06	1.29E-05
Nickel	4.03E-06	8.40E-01	9.10E-01	NA	1.43E-05	3.01E-10	2.58E-11	1.22E-09	1.00E-09	2.70E-04	2.32E-05	7.72E-05
Selenium	7.40E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Vanadium	1.43E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Zinc	3.39E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Diesel PM	1.25E-02	NA	1.10E+00	1.43E-03	1.43E-03	1.13E-06	9.66E-08	4.56E-06	3.76E-06	8.36E-03	7.17E-04	2.39E-03
					<b>TOTAL</b>	<b>1E-06</b>	<b>1E-07</b>	<b>5E-06</b>	<b>4E-06</b>	<b>0.02</b>	<b>0.002</b>	<b>0.006</b>

NA = Not Available  
 NC = Not Calculated

ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-2**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - 16-Month Exposure - Unmitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Child		School Child		Residential Adult						
	15 (m <sup>3</sup> /day)		6 (m <sup>3</sup> /day)		20 (m <sup>3</sup> /day)						
Inhalation rate	15 (m <sup>3</sup> /day)		6 (m <sup>3</sup> /day)		20 (m <sup>3</sup> /day)						
Exposure Duration	1.33 (years)		1.33 (years)		1.33 (years)						
Exposure Frequency	350 (days/year)		200 (days/year)		350 (days/year)						
Body Weight	15 (kg)		40 (kg)		70 (kg)						
Averaging Time (non-carcinogenic)	487 (d)		487 (d)		487 (d)						
Averaging Time (carcinogenic)	25550 (d)		25550 (d)		25550 (d)						
Conversion Factor	1.00E-03 (mg/ug)		1.00E-03 (mg/ug)		1.00E-03 (mg/ug)						
TAC	Toxicity Criteria					Cancer Risks			Hazard Quotients		
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Child Resident	Cancer Risk to School Child	Cancer Risk to Adult Resident	Hazard Quotient Resident	Hazard Quotient Child	Hazard Quotient Adult Resident
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	3.90E-10	3.34E-11	1.11E-10	7.96E-04	6.82E-05	2.27E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	3.04E-05	2.60E-06	8.68E-06
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	1.08E-09	9.25E-11	3.08E-10	3.31E-05	2.83E-06	9.45E-06
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	6.28E-10	5.39E-11	1.80E-10	9.63E-05	8.25E-06	2.75E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	1.15E-10	9.82E-12	3.27E-11	1.21E-06	1.04E-07	3.46E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	6.80E-07	5.83E-08	1.94E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	1.64E-09	1.41E-10	4.69E-10	4.78E-03	4.10E-04	1.37E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	9.35E-07	8.01E-08	2.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	1.01E-07	8.68E-09	2.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	3.38E-07	2.90E-08	9.65E-08
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	1.30E-13	1.11E-14	3.71E-14	8.74E-09	7.49E-10	2.50E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	8.57E-07	7.35E-08	2.45E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	6.46E-08	5.54E-09	1.85E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	7.05E-05	6.05E-06	2.02E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	2.07E-06	1.78E-07	5.92E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	1.80E-09	1.54E-10	5.13E-10	3.06E-04	2.62E-05	8.74E-05
Ammonium Ion	4.86E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	8.16E-07	6.99E-08	2.33E-07
Bromine	1.80E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	1.98E-04	NA	NA	NA	5.71E-05	NC	NC	NC	3.32E-03	2.85E-04	9.50E-04
Silicon	1.04E-02	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	4.86E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	1.25E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	1.07E-06	1.51E+01	1.20E+01	NA	8.57E-06	2.34E-10	2.01E-11	6.70E-11	1.20E-04	1.03E-05	3.42E-05
Cadmium	2.62E-06	6.30E+00	1.50E+01	NA	5.71E-06	7.19E-10	6.16E-11	2.05E-10	4.40E-04	3.78E-05	1.26E-04
Copper	6.70E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	1.68E-06	4.20E+01	5.10E+02	2.86E-05	NA	1.56E-08	1.34E-09	4.47E-09	5.63E-05	4.82E-06	1.61E-05
Lead	3.04E-05	NA	4.20E-02	NA	NA	2.34E-11	2.00E-12	6.67E-12	NC	NC	NC
Manganese	4.94E-05	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	8.29E-04	7.10E-05	2.37E-04
Mercury	1.21E-06	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	4.52E-05	3.88E-06	1.29E-05
Nickel	4.03E-06	8.40E-01	9.10E-01	NA	1.43E-05	6.69E-11	5.74E-12	1.91E-11	2.70E-04	2.32E-05	7.72E-05
Selenium	7.40E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	1.43E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	3.39E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	1.25E-02	NA	1.10E+00	1.43E-03	1.43E-03	2.50E-07	2.15E-08	7.15E-08	8.36E-03	7.17E-04	2.39E-03
					<b>TOTAL</b>	<b>3E-07</b>	<b>2E-08</b>	<b>8E-08</b>	<b>0.02</b>	<b>0.002</b>	<b>0.006</b>

NA = Not Available  
 NC = Not Calculated

ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008



**Table C-3**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 9-year - Unmitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP-9 yr	Residential Adult - 452 L/kg-d	Residential Adult - 581 L/kg-d								
	Inhalation rate 20 (m <sup>3</sup> /day) 286 (L/kg BW-day)	32 (m <sup>3</sup> /day) 452 (L/kg BW-day)	41 (m <sup>3</sup> /day) 581 (L/kg BW-day)								
Exposure Duration	9 (years)	9 (years)	9 (years)								
Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)								
Body Weight	70 (kg)	70 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	3285 (d)	3285 (d)	3285 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP-9 yr	Cancer Risk to Adult Res. 452 L/kg-d	Cancer Risk to Adult Res. 581 L/kg-d	Hazard Quotient Adult Res. CFTP-9 yr	Hazard Quotient Adult Res. 452 L/kg-d	Hazard Quotient Adult Res. 581 L/kg-d
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	7.52E-10	1.19E-09	1.53E-09	2.27E-04	3.60E-04	4.62E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	1.37E-05	1.77E-05
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	2.08E-09	3.29E-09	4.23E-09	9.45E-06	1.49E-05	1.92E-05
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	1.21E-09	1.92E-09	2.46E-09	2.75E-05	4.35E-05	5.59E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	2.21E-10	3.50E-10	4.49E-10	3.46E-07	5.47E-07	7.03E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	3.07E-07	3.95E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	3.16E-09	5.00E-09	6.43E-09	1.37E-03	2.16E-03	2.78E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	4.22E-07	5.43E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	4.58E-08	5.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	1.53E-07	1.96E-07
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	2.50E-13	3.96E-13	5.09E-13	2.50E-09	3.95E-09	5.08E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	3.87E-07	4.98E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	2.92E-08	3.76E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	3.19E-05	4.10E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	9.37E-07	1.20E-06
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	3.47E-09	5.48E-09	7.05E-09	8.74E-05	1.38E-04	1.78E-04
Ammonium Ion	4.86E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	2.33E-07	3.69E-07	4.74E-07
Bromine	1.80E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	1.98E-04	NA	NA	NA	5.71E-05	NC	NC	NC	9.50E-04	1.50E-03	1.93E-03
Silicon	1.04E-02	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	4.86E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	1.25E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	1.07E-06	1.51E+01	1.20E+01	NA	8.57E-06	4.52E-10	7.15E-10	9.20E-10	3.42E-05	5.41E-05	6.95E-05
Cadmium	2.62E-06	6.30E+00	1.50E+01	NA	5.71E-06	1.39E-09	2.19E-09	2.82E-09	1.26E-04	1.99E-04	2.56E-04
Copper	6.70E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	1.68E-06	4.20E+01	5.10E+02	2.86E-05	NA	3.01E-08	4.77E-08	6.13E-08	1.61E-05	2.54E-05	3.27E-05
Lead	3.04E-05	NA	4.20E-02	NA	NA	4.50E-11	7.12E-11	9.16E-11	NC	NC	NC
Manganese	4.94E-05	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	2.37E-04	3.75E-04	4.81E-04
Mercury	1.21E-06	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	1.29E-05	2.05E-05	2.63E-05
Nickel	4.03E-06	8.40E-01	9.10E-01	NA	1.43E-05	1.29E-10	2.04E-10	2.62E-10	7.72E-05	1.22E-04	1.57E-04
Selenium	7.40E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	1.43E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	3.39E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	1.25E-02	NA	1.10E+00	1.43E-03	1.43E-03	4.83E-07	7.64E-07	9.82E-07	2.39E-03	3.78E-03	4.86E-03
					<b>TOTAL</b>	<b>5E-07</b>	<b>8E-07</b>	<b>1E-06</b>	<b>0.006</b>	<b>0.009</b>	<b>0.01</b>

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-4**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 30-year - Unmitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP-30 yr	Residential Adult - 271 L/kg-d	Residential Adult - 393 L/kg-d								
	Inhalation rate 20 (m <sup>3</sup> /day) 286 (L/kg BW-day)	19 (m <sup>3</sup> /day) 271 (L/kg BW-day)	28 (m <sup>3</sup> /day) 393 (L/kg BW-day)								
Exposure Duration	30 (years)	30 (years)	30 (years)								
Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)								
Body Weight	70 (kg)	70 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	10950 (d)	10950 (d)	10950 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP-30 yr	Cancer Risk to Adult Res. 271 L/kg-d	Cancer Risk to Adult Res. 393 L/kg-d	Hazard Quotient Adult Res. CFTP-30 yr	Hazard Quotient Adult Res. 271 L/kg-d	Hazard Quotient Adult Res. 393 L/kg-d
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	2.51E-09	2.38E-09	3.45E-09	2.27E-04	2.16E-04	3.13E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	8.24E-06	1.19E-05
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	6.94E-09	6.58E-09	9.55E-09	9.45E-06	8.96E-06	1.30E-05
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	4.04E-09	3.83E-09	5.56E-09	2.75E-05	2.61E-05	3.78E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	7.36E-10	6.99E-10	1.01E-09	3.46E-07	3.28E-07	4.75E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	1.84E-07	2.67E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	1.05E-08	1.00E-08	1.45E-08	1.37E-03	1.30E-03	1.88E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	2.53E-07	3.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	2.75E-08	3.98E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	9.15E-08	1.33E-07
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	8.35E-13	7.92E-13	1.15E-12	2.50E-09	2.37E-09	3.43E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	2.32E-07	3.37E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	1.75E-08	2.54E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	1.91E-05	2.77E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	5.62E-07	8.15E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	1.16E-08	1.10E-08	1.59E-08	8.74E-05	8.29E-05	1.20E-04
Ammonium Ion	4.86E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	2.33E-07	2.21E-07	3.21E-07
Bromine	1.80E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	1.98E-04	NA	NA	NA	5.71E-05	NC	NC	NC	9.50E-04	9.01E-04	1.31E-03
Silicon	1.04E-02	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	4.86E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	1.25E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	1.07E-06	1.51E+01	1.20E+01	NA	8.57E-06	1.51E-09	1.43E-09	2.07E-09	3.42E-05	3.24E-05	4.70E-05
Cadmium	2.62E-06	6.30E+00	1.50E+01	NA	5.71E-06	4.62E-09	4.38E-09	6.36E-09	1.26E-04	1.19E-04	1.73E-04
Copper	6.70E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	1.68E-06	4.20E+01	5.10E+02	2.86E-05	NA	1.00E-07	9.53E-08	1.38E-07	1.61E-05	1.52E-05	2.21E-05
Lead	3.04E-05	NA	4.20E-02	NA	NA	1.50E-10	1.42E-10	2.06E-10	NC	NC	NC
Manganese	4.94E-05	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	2.37E-04	2.25E-04	3.26E-04
Mercury	1.21E-06	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	1.29E-05	1.23E-05	1.78E-05
Nickel	4.03E-06	8.40E-01	9.10E-01	NA	1.43E-05	4.30E-10	4.08E-10	5.92E-10	7.72E-05	7.32E-05	1.06E-04
Selenium	7.40E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	1.43E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	3.39E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	1.25E-02	NA	1.10E+00	1.43E-03	1.43E-03	1.61E-06	1.53E-06	2.21E-06	2.39E-03	2.27E-03	3.29E-03
					<b>TOTAL</b>	<b>2E-06</b>	<b>2E-06</b>	<b>2E-06</b>	<b>0.006</b>	<b>0.005</b>	<b>0.008</b>

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-5**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 70-year - Unmitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP			Residential Adult - 271 L/kg-d			Residential Adult - 393 L/kg-d																								
	Inhalation rate	20 (m <sup>3</sup> /day)	19 (m <sup>3</sup> /day)	28 (m <sup>3</sup> /day)	Inhalation rate	286 (L/kg BW-day)	271 (L/kg BW-day)	393 (L/kg BW-day)	Exposure Duration	70 (years)	70 (years)	70 (years)	Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)	Body Weight	70 (kg)	70 (kg)	70 (kg)	Averaging Time (non-carcinogenic)	25550 (d)	25550 (d)	25550 (d)	Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)	Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients																							
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP	Cancer Risk to Adult Res. 271 L/kg-d	Cancer Risk to Adult Res. 393 L/kg-d	Hazard Quotient Adult Res. CFTP	Hazard Quotient Adult Res. 271 L/kg-d	Hazard Quotient Adult Res. 393 L/kg-d																				
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	5.85E-09	5.55E-09	8.04E-09	2.27E-04	2.16E-04	3.13E-04																				
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	8.24E-06	1.19E-05																				
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	1.62E-08	1.54E-08	2.23E-08	9.45E-06	8.96E-06	1.30E-05																				
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	9.42E-09	8.94E-09	1.30E-08	2.75E-05	2.61E-05	3.78E-05																				
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	1.72E-09	1.63E-09	2.36E-09	3.46E-07	3.28E-07	4.75E-07																				
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	1.84E-07	2.67E-07																				
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	2.46E-08	2.33E-08	3.38E-08	1.37E-03	1.30E-03	1.88E-03																				
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	2.53E-07	3.67E-07																				
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	2.75E-08	3.98E-08																				
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	9.15E-08	1.33E-07																				
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	1.95E-12	1.85E-12	2.68E-12	2.50E-09	2.37E-09	3.43E-09																				
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	2.32E-07	3.37E-07																				
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	1.75E-08	2.54E-08																				
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	1.91E-05	2.77E-05																				
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	5.62E-07	8.15E-07																				
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	2.70E-08	2.56E-08	3.71E-08	8.74E-05	8.29E-05	1.20E-04																				
Ammonium Ion	4.86E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	2.33E-07	2.21E-07	3.21E-07																				
Bromine	1.80E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Chlorine	1.98E-04	NA	NA	NA	5.71E-05	NC	NC	NC	9.50E-04	9.01E-04	1.31E-03																				
Silicon	1.04E-02	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Sulfates	4.86E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Antimony	1.25E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Arsenic	1.07E-06	1.51E+01	1.20E+01	NA	8.57E-06	3.52E-09	3.34E-09	4.84E-09	3.42E-05	3.24E-05	4.70E-05																				
Cadmium	2.62E-06	6.30E+00	1.50E+01	NA	5.71E-06	1.08E-08	1.02E-08	1.48E-08	1.26E-04	1.19E-04	1.73E-04																				
Copper	6.70E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Chromium (VI)	1.68E-06	4.20E+01	5.10E+02	2.86E-05	NA	2.34E-07	2.22E-07	3.23E-07	1.61E-05	1.52E-05	2.21E-05																				
Lead	3.04E-05	NA	4.20E-02	NA	NA	3.50E-10	3.32E-10	4.82E-10	NC	NC	NC																				
Manganese	4.94E-05	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	2.37E-04	2.25E-04	3.26E-04																				
Mercury	1.21E-06	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	1.29E-05	1.23E-05	1.78E-05																				
Nickel	4.03E-06	8.40E-01	9.10E-01	NA	1.43E-05	1.00E-09	9.52E-10	1.38E-09	7.72E-05	7.32E-05	1.06E-04																				
Selenium	7.40E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Vanadium	1.43E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Zinc	3.39E-05	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Diesel PM	1.25E-02	NA	1.10E+00	1.43E-03	1.43E-03	3.76E-06	3.56E-06	5.17E-06	2.39E-03	2.27E-03	3.29E-03																				
					<b>TOTAL</b>	<b>4E-06</b>	<b>4E-06</b>	<b>6E-06</b>	<b>0.006</b>	<b>0.005</b>	<b>0.008</b>																				

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-6**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Lifetime Exposure - Mitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Child		School Child		Residential Adult							
	Inhalation rate	15 (m <sup>3</sup> /day)	6 (m <sup>3</sup> /day)	6 (m <sup>3</sup> /day)	20 (m <sup>3</sup> /day)							
Exposure Duration	6 (years)	6 (years)	6 (years)	70 (years)								
Exposure Frequency	350 (days/year)	200 (days/year)	200 (days/year)	350 (days/year)								
Body Weight	15 (kg)	40 (kg)	40 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	2190 (d)	2190 (d)	2190 (d)	25550 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria					Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Child Resident	Cancer Risk to School Child	Cancer Risk to Adult+Child Resident	Cancer Risk to Adult Resident	Hazard Quotient Child Resident	Hazard Quotient School Child	Hazard Quotient Adult Resident
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	1.75E-09	1.50E-10	7.10E-09	5.85E-09	7.96E-04	6.82E-05	2.27E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	NC	3.04E-05	2.60E-06	8.68E-06
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	4.86E-09	4.16E-10	1.97E-08	1.62E-08	3.31E-05	2.83E-06	9.45E-06
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	2.83E-09	2.42E-10	1.14E-08	9.42E-09	9.63E-05	8.25E-06	2.75E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	5.16E-10	4.42E-11	2.09E-09	1.72E-09	1.21E-06	1.04E-07	3.46E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	NC	6.80E-07	5.83E-08	1.94E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	7.38E-09	6.33E-10	2.99E-08	2.46E-08	4.78E-03	4.10E-04	1.37E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	NC	9.35E-07	8.01E-08	2.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	NC	1.01E-07	8.68E-09	2.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	NC	3.38E-07	2.90E-08	9.65E-08
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	5.84E-13	5.01E-14	2.36E-12	1.95E-12	8.74E-09	7.49E-10	2.50E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	NC	8.57E-07	7.35E-08	2.45E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	NC	6.46E-08	5.54E-09	1.85E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	NC	7.05E-05	6.05E-06	2.02E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	NC	2.07E-06	1.78E-07	5.92E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	8.09E-09	6.93E-10	3.27E-08	2.70E-08	3.06E-04	2.62E-05	8.74E-05
Ammonium Ion	2.71E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	NC	4.55E-07	3.90E-08	1.30E-07
Bromine	5.06E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Chlorine	4.93E-05	NA	NA	NA	5.71E-05	NC	NC	NC	NC	8.28E-04	7.10E-05	2.37E-04
Silicon	1.90E-03	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Sulfates	2.94E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Antimony	4.17E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Arsenic	2.15E-07	1.51E+01	1.20E+01	NA	8.57E-06	2.12E-10	1.82E-11	8.59E-10	7.07E-10	2.41E-05	2.06E-06	6.88E-06
Cadmium	8.41E-07	6.30E+00	1.50E+01	NA	5.71E-06	1.04E-09	8.89E-11	4.20E-09	3.46E-09	1.41E-04	1.21E-05	4.03E-05
Copper	1.56E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Chromium (VI)	3.40E-07	4.20E+01	5.10E+02	2.86E-05	NA	1.42E-08	1.22E-09	5.76E-08	4.74E-08	1.14E-05	9.76E-07	3.25E-06
Lead	5.73E-06	NA	4.20E-02	NA	NA	1.98E-11	1.70E-12	8.01E-11	6.59E-11	NC	NC	NC
Manganese	9.13E-06	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	NC	1.53E-04	1.31E-05	4.38E-05
Mercury	3.79E-07	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	NC	1.41E-05	1.21E-06	4.03E-06
Nickel	1.06E-06	8.40E-01	9.10E-01	NA	1.43E-05	7.94E-11	6.81E-12	3.21E-10	2.65E-10	7.13E-05	6.11E-06	2.04E-05
Selenium	3.45E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Vanadium	2.66E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Zinc	8.62E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC	NC
Diesel PM	7.71E-03	NA	1.10E+00	1.43E-03	1.43E-03	6.97E-07	5.97E-08	2.82E-06	2.32E-06	5.18E-03	4.44E-04	1.48E-03
					<b>TOTAL</b>	<b>7E-07</b>	<b>6E-08</b>	<b>3E-06</b>	<b>2E-06</b>	<b>0.01</b>	<b>0.001</b>	<b>0.004</b>

NA = Not Available  
 NC = Not Calculated

ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-7**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - 16-Month Exposure - Mitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Child		School Child		Residential Adult						
	15 (m <sup>3</sup> /day)		6 (m <sup>3</sup> /day)		20 (m <sup>3</sup> /day)						
Inhalation rate	15 (m <sup>3</sup> /day)		6 (m <sup>3</sup> /day)		20 (m <sup>3</sup> /day)						
Exposure Duration	1.33 (years)		1.33 (years)		1.33 (years)						
Exposure Frequency	350 (days/year)		200 (days/year)		350 (days/year)						
Body Weight	15 (kg)		40 (kg)		70 (kg)						
Averaging Time (non-carcinogenic)	487 (d)		487 (d)		487 (d)						
Averaging Time (carcinogenic)	25550 (d)		25550 (d)		25550 (d)						
Conversion Factor	1.00E-03 (mg/ug)		1.00E-03 (mg/ug)		1.00E-03 (mg/ug)						
TAC	Toxicity Criteria					Cancer Risks			Hazard Quotients		
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Child Resident	Cancer Risk to School Child	Cancer Risk to Adult Resident	Hazard Quotient Resident	Hazard Quotient Child	Hazard Quotient Adult Resident
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	3.90E-10	3.34E-11	1.11E-10	7.96E-04	6.82E-05	2.27E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	3.04E-05	2.60E-06	8.68E-06
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	1.08E-09	9.25E-11	3.08E-10	3.31E-05	2.83E-06	9.45E-06
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	6.28E-10	5.39E-11	1.80E-10	9.63E-05	8.25E-06	2.75E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	1.15E-10	9.82E-12	3.27E-11	1.21E-06	1.04E-07	3.46E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	6.80E-07	5.83E-08	1.94E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	1.64E-09	1.41E-10	4.69E-10	4.78E-03	4.10E-04	1.37E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	9.35E-07	8.01E-08	2.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	1.01E-07	8.68E-09	2.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	3.38E-07	2.90E-08	9.65E-08
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	1.30E-13	1.11E-14	3.71E-14	8.74E-09	7.49E-10	2.50E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	8.57E-07	7.35E-08	2.45E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	6.46E-08	5.54E-09	1.85E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	7.05E-05	6.05E-06	2.02E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	2.07E-06	1.78E-07	5.92E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	1.80E-09	1.54E-10	5.13E-10	3.06E-04	2.62E-05	8.74E-05
Ammonium Ion	2.71E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	4.55E-07	3.90E-08	1.30E-07
Bromine	5.06E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	4.93E-05	NA	NA	NA	5.71E-05	NC	NC	NC	8.28E-04	7.10E-05	2.37E-04
Silicon	1.90E-03	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	2.94E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	4.17E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	2.15E-07	1.51E+01	1.20E+01	NA	8.57E-06	4.72E-11	4.04E-12	1.35E-11	2.41E-05	2.06E-06	6.88E-06
Cadmium	8.41E-07	6.30E+00	1.50E+01	NA	5.71E-06	2.31E-10	1.98E-11	6.59E-11	1.41E-04	1.21E-05	4.03E-05
Copper	1.56E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	3.40E-07	4.20E+01	5.10E+02	2.86E-05	NA	3.16E-09	2.71E-10	9.04E-10	1.14E-05	9.76E-07	3.25E-06
Lead	5.73E-06	NA	4.20E-02	NA	NA	4.39E-12	3.77E-13	1.26E-12	NC	NC	NC
Manganese	9.13E-06	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	1.53E-04	1.31E-05	4.38E-05
Mercury	3.79E-07	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	1.41E-05	1.21E-06	4.03E-06
Nickel	1.06E-06	8.40E-01	9.10E-01	NA	1.43E-05	1.76E-11	1.51E-12	5.04E-12	7.13E-05	6.11E-06	2.04E-05
Selenium	3.45E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	2.66E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	8.62E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	7.71E-03	NA	1.10E+00	1.43E-03	1.43E-03	1.55E-07	1.33E-08	4.43E-08	5.18E-03	4.44E-04	1.48E-03
					<b>TOTAL</b>	<b>2E-07</b>	<b>1E-08</b>	<b>5E-08</b>	<b>0.01</b>	<b>0.001</b>	<b>0.004</b>

NA = Not Available  
 NC = Not Calculated

ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-8**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 9-year - Mitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP-9 yr	Residential Adult - 452 L/kg-d	Residential Adult - 581 L/kg-d								
	Inhalation rate 20 (m <sup>3</sup> /day) 286 (L/kg BW-day)	32 (m <sup>3</sup> /day) 452 (L/kg BW-day)	41 (m <sup>3</sup> /day) 581 (L/kg BW-day)								
Exposure Duration	9 (years)	9 (years)	9 (years)								
Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)								
Body Weight	70 (kg)	70 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	3285 (d)	3285 (d)	3285 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP-9 yr	Cancer Risk to Adult Res. 452 L/kg-d	Cancer Risk to Adult Res. 581 L/kg-d	Hazard Quotient Adult Res. CFTP-9 yr	Hazard Quotient Adult Res. 452 L/kg-d	Hazard Quotient Adult Res. 581 L/kg-d
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	7.52E-10	1.19E-09	1.53E-09	2.27E-04	3.60E-04	4.62E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	1.37E-05	1.77E-05
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	2.08E-09	3.29E-09	4.23E-09	9.45E-06	1.49E-05	1.92E-05
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	1.21E-09	1.92E-09	2.46E-09	2.75E-05	4.35E-05	5.59E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	2.21E-10	3.50E-10	4.49E-10	3.46E-07	5.47E-07	7.03E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	3.07E-07	3.95E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	3.16E-09	5.00E-09	6.43E-09	1.37E-03	2.16E-03	2.78E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	4.22E-07	5.43E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	4.58E-08	5.89E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	1.53E-07	1.96E-07
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	2.50E-13	3.96E-13	5.09E-13	2.50E-09	3.95E-09	5.08E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	3.87E-07	4.98E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	2.92E-08	3.76E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	3.19E-05	4.10E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	9.37E-07	1.20E-06
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	3.47E-09	5.48E-09	7.05E-09	8.74E-05	1.38E-04	1.78E-04
Ammonium Ion	2.71E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	1.30E-07	2.06E-07	2.65E-07
Bromine	5.06E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	4.93E-05	NA	NA	NA	5.71E-05	NC	NC	NC	2.37E-04	3.74E-04	4.81E-04
Silicon	1.90E-03	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	2.94E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	4.17E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	2.15E-07	1.51E+01	1.20E+01	NA	8.57E-06	9.10E-11	1.44E-10	1.85E-10	6.88E-06	1.09E-05	1.40E-05
Cadmium	8.41E-07	6.30E+00	1.50E+01	NA	5.71E-06	4.45E-10	7.03E-10	9.04E-10	4.03E-05	6.38E-05	8.20E-05
Copper	1.56E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	3.40E-07	4.20E+01	5.10E+02	2.86E-05	NA	6.10E-09	9.65E-09	1.24E-08	3.25E-06	5.15E-06	6.61E-06
Lead	5.73E-06	NA	4.20E-02	NA	NA	8.48E-12	1.34E-11	1.72E-11	NC	NC	NC
Manganese	9.13E-06	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	4.38E-05	6.92E-05	8.90E-05
Mercury	3.79E-07	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	4.03E-06	6.38E-06	8.20E-06
Nickel	1.06E-06	8.40E-01	9.10E-01	NA	1.43E-05	3.40E-11	5.38E-11	6.92E-11	2.04E-05	3.22E-05	4.14E-05
Selenium	3.45E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	2.66E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	8.62E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	7.71E-03	NA	1.10E+00	1.43E-03	1.43E-03	2.99E-07	4.73E-07	6.07E-07	1.48E-03	2.34E-03	3.01E-03
					<b>TOTAL</b>	<b>3E-07</b>	<b>5E-07</b>	<b>6E-07</b>	<b>0.004</b>	<b>0.006</b>	<b>0.007</b>

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-9**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 30-year - Mitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP-30 yr	Residential Adult - 271 L/kg-d	Residential Adult - 393 L/kg-d								
	Inhalation rate 20 (m <sup>3</sup> /day) 286 (L/kg BW-day)	19 (m <sup>3</sup> /day) 271 (L/kg BW-day)	28 (m <sup>3</sup> /day) 393 (L/kg BW-day)								
Exposure Duration	30 (years)	30 (years)	30 (years)								
Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)								
Body Weight	70 (kg)	70 (kg)	70 (kg)								
Averaging Time (non-carcinogenic)	10950 (d)	10950 (d)	10950 (d)								
Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)								
Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)								
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients			
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP-30 yr	Cancer Risk to Adult Res. 271 L/kg-d	Cancer Risk to Adult Res. 393 L/kg-d	Hazard Quotient Adult Res. CFTP-30 yr	Hazard Quotient Adult Res. 271 L/kg-d	Hazard Quotient Adult Res. 393 L/kg-d
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	2.51E-09	2.38E-09	3.45E-09	2.27E-04	2.16E-04	3.13E-04
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	8.24E-06	1.19E-05
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	6.94E-09	6.58E-09	9.55E-09	9.45E-06	8.96E-06	1.30E-05
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	4.04E-09	3.83E-09	5.56E-09	2.75E-05	2.61E-05	3.78E-05
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	7.36E-10	6.99E-10	1.01E-09	3.46E-07	3.28E-07	4.75E-07
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	1.84E-07	2.67E-07
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	1.05E-08	1.00E-08	1.45E-08	1.37E-03	1.30E-03	1.88E-03
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	2.53E-07	3.67E-07
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	2.75E-08	3.98E-08
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	9.15E-08	1.33E-07
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	8.35E-13	7.92E-13	1.15E-12	2.50E-09	2.37E-09	3.43E-09
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	2.32E-07	3.37E-07
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	1.75E-08	2.54E-08
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	1.91E-05	2.77E-05
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	5.62E-07	8.15E-07
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	1.16E-08	1.10E-08	1.59E-08	8.74E-05	8.29E-05	1.20E-04
Ammonium Ion	2.71E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	1.30E-07	1.23E-07	1.79E-07
Bromine	5.06E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chlorine	4.93E-05	NA	NA	NA	5.71E-05	NC	NC	NC	2.37E-04	2.24E-04	3.25E-04
Silicon	1.90E-03	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Sulfates	2.94E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Antimony	4.17E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Arsenic	2.15E-07	1.51E+01	1.20E+01	NA	8.57E-06	3.03E-10	2.88E-10	4.17E-10	6.88E-06	6.52E-06	9.46E-06
Cadmium	8.41E-07	6.30E+00	1.50E+01	NA	5.71E-06	1.48E-09	1.41E-09	2.04E-09	4.03E-05	3.83E-05	5.55E-05
Copper	1.56E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Chromium (VI)	3.40E-07	4.20E+01	5.10E+02	2.86E-05	NA	2.03E-08	1.93E-08	2.80E-08	3.25E-06	3.09E-06	4.47E-06
Lead	5.73E-06	NA	4.20E-02	NA	NA	2.83E-11	2.68E-11	3.89E-11	NC	NC	NC
Manganese	9.13E-06	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	4.38E-05	4.15E-05	6.02E-05
Mercury	3.79E-07	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	4.03E-06	3.83E-06	5.55E-06
Nickel	1.06E-06	8.40E-01	9.10E-01	NA	1.43E-05	1.13E-10	1.08E-10	1.56E-10	2.04E-05	1.93E-05	2.80E-05
Selenium	3.45E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Vanadium	2.66E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Zinc	8.62E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC
Diesel PM	7.71E-03	NA	1.10E+00	1.43E-03	1.43E-03	9.96E-07	9.45E-07	1.37E-06	1.48E-03	1.40E-03	2.03E-03
					<b>TOTAL</b>	<b>1E-06</b>	<b>1E-06</b>	<b>1E-06</b>	<b>0.004</b>	<b>0.003</b>	<b>0.005</b>

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008

**Table C-10**  
**Incremental Risk Calculation for CFTP Construction, Horizon Year 2009, 2007 Baseline - Inhalation Rate Sensitivity, Adult Resident, 70-year - Mitigated**  
**(Based on Location where Cancer Risks are Greatest)**

Exposure Parameters	Residential Adult - CFTP			Residential Adult - 271 L/kg-d			Residential Adult - 393 L/kg-d																								
	Inhalation rate	20 (m <sup>3</sup> /day)	19 (m <sup>3</sup> /day)	28 (m <sup>3</sup> /day)	Inhalation rate	286 (L/kg BW-day)	271 (L/kg BW-day)	393 (L/kg BW-day)	Exposure Duration	70 (years)	70 (years)	70 (years)	Exposure Frequency	350 (days/year)	350 (days/year)	350 (days/year)	Body Weight	70 (kg)	70 (kg)	70 (kg)	Averaging Time (non-carcinogenic)	25550 (d)	25550 (d)	25550 (d)	Averaging Time (carcinogenic)	25550 (d)	25550 (d)	25550 (d)	Conversion Factor	1.00E-03 (mg/ug)	1.00E-03 (mg/ug)
TAC	Toxicity Criteria				Cancer Risks			Hazard Quotients																							
	Concentration at Location w/Maximum Risk (ug/m <sup>3</sup> )	EPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	CalEPA Inhalation Slope Factor (mg/kg-d) <sup>-1</sup>	EPA RfDi (mg/kg-d)	CalEPA Proposed REL (mg/kg-d)	Cancer Risk to Adult Res. CFTP	Cancer Risk to Adult Res. 271 L/kg-d	Cancer Risk to Adult Res. 393 L/kg-d	Hazard Quotient Adult Res. CFTP	Hazard Quotient Adult Res. 271 L/kg-d	Hazard Quotient Adult Res. 393 L/kg-d																				
Acetaldehyde	2.13E-03	7.70E-03	1.00E-02	2.57E-03	2.57E-03	5.85E-09	5.55E-09	8.04E-09	2.27E-04	2.16E-04	3.13E-04																				
Acrolein	5.43E-07	NA	NA	5.71E-06	1.71E-05	NC	NC	NC	8.68E-06	8.24E-06	1.19E-05																				
Benzene	5.91E-04	7.70E-03	1.00E-01	8.57E-03	1.71E-02	1.62E-08	1.54E-08	2.23E-08	9.45E-06	8.96E-06	1.30E-05																				
1,3-Butadiene	5.73E-05	1.05E-01	6.00E-01	5.71E-04	NA	9.42E-09	8.94E-09	1.30E-08	2.75E-05	2.61E-05	3.78E-05																				
Ethylbenzene	7.21E-04	NA	8.70E-03	2.86E-01	5.71E-01	1.72E-09	1.63E-09	2.36E-09	3.46E-07	3.28E-07	4.75E-07																				
Ethylene glycol	8.11E-05	NA	NA	NA	1.14E-01	NC	NC	NC	1.94E-07	1.84E-07	2.67E-07																				
Formaldehyde	4.28E-03	4.55E-02	2.10E-02	NA	8.57E-04	2.46E-08	2.33E-08	3.38E-08	1.37E-03	1.30E-03	1.88E-03																				
Hexane, n-	1.95E-03	NA	NA	2.00E-01	2.00E+00	NC	NC	NC	2.67E-07	2.53E-07	3.67E-07																				
Isopropyl alcohol	1.97E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Methyl alcohol	1.21E-04	NA	NA	NA	1.14E+00	NC	NC	NC	2.89E-08	2.75E-08	3.98E-08																				
Methyl ethyl ketone	5.03E-04	NA	NA	1.43E+00	NA	NC	NC	NC	9.65E-08	9.15E-08	1.33E-07																				
Methyl t-butyl ether	7.81E-06	9.10E-04	9.10E-04	8.57E-01	NA	1.95E-12	1.85E-12	2.68E-12	2.50E-09	2.37E-09	3.43E-09																				
Propylene	7.66E-04	NA	NA	NA	8.57E-01	NC	NC	NC	2.45E-07	2.32E-07	3.37E-07																				
Styrene	1.73E-05	NA	NA	2.86E-01	2.57E-01	NC	NC	NC	1.85E-08	1.75E-08	2.54E-08																				
Toluene	6.30E-03	NA	NA	1.43E+00	8.57E-02	NC	NC	NC	2.02E-05	1.91E-05	2.77E-05																				
Xylene (total)	4.32E-04	NA	NA	2.86E-02	2.00E-01	NC	NC	NC	5.92E-07	5.62E-07	8.15E-07																				
Naphthalene	8.20E-04	1.20E-01	1.20E-01	8.57E-04	2.57E-03	2.70E-08	2.56E-08	3.71E-08	8.74E-05	8.29E-05	1.20E-04																				
Ammonium Ion	2.71E-05	NA	NA	2.86E-02	5.71E-02	NC	NC	NC	1.30E-07	1.23E-07	1.79E-07																				
Bromine	5.06E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Chlorine	4.93E-05	NA	NA	NA	5.71E-05	NC	NC	NC	2.37E-04	2.24E-04	3.25E-04																				
Silicon	1.90E-03	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Sulfates	2.94E-04	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Antimony	4.17E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Arsenic	2.15E-07	1.51E+01	1.20E+01	NA	8.57E-06	7.07E-10	6.71E-10	9.73E-10	6.88E-06	6.52E-06	9.46E-06																				
Cadmium	8.41E-07	6.30E+00	1.50E+01	NA	5.71E-06	3.46E-09	3.28E-09	4.76E-09	4.03E-05	3.83E-05	5.55E-05																				
Copper	1.56E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Chromium (VI)	3.40E-07	4.20E+01	5.10E+02	2.86E-05	NA	4.74E-08	4.50E-08	6.53E-08	3.25E-06	3.09E-06	4.47E-06																				
Lead	5.73E-06	NA	4.20E-02	NA	NA	6.59E-11	6.25E-11	9.07E-11	NC	NC	NC																				
Manganese	9.13E-06	NA	NA	1.43E-05	5.71E-05	NC	NC	NC	4.38E-05	4.15E-05	6.02E-05																				
Mercury	3.79E-07	NA	NA	8.57E-05	2.57E-05	NC	NC	NC	4.03E-06	3.83E-06	5.55E-06																				
Nickel	1.06E-06	8.40E-01	9.10E-01	NA	1.43E-05	2.65E-10	2.51E-10	3.64E-10	2.04E-05	1.93E-05	2.80E-05																				
Selenium	3.45E-07	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Vanadium	2.66E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Zinc	8.62E-06	NA	NA	NA	NA	NC	NC	NC	NC	NC	NC																				
Diesel PM	7.71E-03	NA	1.10E+00	1.43E-03	1.43E-03	2.32E-06	2.20E-06	3.20E-06	1.48E-03	1.40E-03	2.03E-03																				
					<b>TOTAL</b>	<b>2E-06</b>	<b>2E-06</b>	<b>3E-06</b>	<b>0.004</b>	<b>0.003</b>	<b>0.005</b>																				

NA = Not Available  
 NC = Not Calculated  
 ug/m<sup>3</sup> = micrograms per cubic meter  
 mg/kg-d = milligrams per kilogram day

Source: Camp Dresser & McKee Inc., 2008



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**Attachment D**

**Incremental Acute Non-Cancer Hazard Calculations for CFTP  
Construction Activities**

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<b>Table</b>	<b>Title</b>
Table D-1	Summary of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors
Table D-2	Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors
Table D-3	Summary of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors
Table D-4	Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors
Table D-5	Summary of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors
Table D-6	Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors
Table D-7	Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Onsite Construction Workers
Table D-8	Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Onsite Construction Workers
Table D-9	Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Onsite Construction Workers

**Table D-1**  
**Summary of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

Receptor Location Type	1-Hour PM10 Conc. ( $\mu\text{g}/\text{m}^3$ )	AMMONIUM ION ( $\mu\text{g}/\text{m}^3$ )	ANTIMONY ( $\mu\text{g}/\text{m}^3$ )	ARSENIC ( $\mu\text{g}/\text{m}^3$ )	BROMINE ( $\mu\text{g}/\text{m}^3$ )	CADMIUM ( $\mu\text{g}/\text{m}^3$ )	CHLORINE ( $\mu\text{g}/\text{m}^3$ )	CHROMIUM VI ( $\mu\text{g}/\text{m}^3$ )	COPPER ( $\mu\text{g}/\text{m}^3$ )	LEAD ( $\mu\text{g}/\text{m}^3$ )	MANGANESE ( $\mu\text{g}/\text{m}^3$ )	MERCURY ( $\mu\text{g}/\text{m}^3$ )	NICKEL ( $\mu\text{g}/\text{m}^3$ )	SELENIUM ( $\mu\text{g}/\text{m}^3$ )	SILICON ( $\mu\text{g}/\text{m}^3$ )	SULFATES ( $\mu\text{g}/\text{m}^3$ )	VANADIUM ( $\mu\text{g}/\text{m}^3$ )	ZINC ( $\mu\text{g}/\text{m}^3$ )	DIESEL PM ( $\mu\text{g}/\text{m}^3$ )
Residential																			
Maximum Offsite Concentration-->	4.18E+01	2.41E-02	8.70E-04	8.88E-04	1.39E-03	1.80E-03	1.60E-01	1.39E-03	5.32E-03	2.56E-02	4.17E-02	8.75E-04	3.06E-03	4.35E-04	8.84E+00	3.01E-01	1.20E-02	2.64E-02	5.56E+00
Average Offsite Concentration-->	1.60E+01	9.82E-03	3.36E-04	3.31E-04	5.26E-04	7.16E-04	6.00E-02	5.20E-04	2.02E-03	9.54E-03	1.55E-02	3.35E-04	1.18E-03	1.67E-04	3.29E+00	9.92E-02	4.48E-03	9.98E-03	2.29E+00
Minimum Offsite Concentration-->	5.56E+00	3.84E-03	1.19E-04	1.13E-04	1.62E-04	2.51E-04	2.05E-02	1.77E-04	6.90E-04	3.23E-03	5.26E-03	1.18E-04	4.05E-04	5.78E-05	1.11E+00	3.34E-02	1.52E-03	3.44E-03	9.05E-01
Commercial/Industrial																			
Maximum Offsite Concentration-->	1.85E+01	1.20E-02	3.94E-04	3.87E-04	6.16E-04	7.79E-04	7.01E-02	6.00E-04	2.30E-03	1.11E-02	1.81E-02	3.93E-04	1.32E-03	1.47E-04	3.83E+00	8.00E-02	5.23E-03	1.16E-02	2.89E+00
Average Offsite Concentration-->	8.04E+00	5.07E-03	1.71E-04	1.67E-04	2.66E-04	3.47E-04	3.03E-02	2.60E-04	1.00E-03	4.80E-03	7.82E-03	1.70E-04	5.80E-04	6.94E-05	1.66E+00	3.81E-02	2.26E-03	5.03E-03	1.19E+00
Minimum Offsite Concentration-->	2.28E+00	1.35E-03	4.78E-05	4.57E-05	7.51E-05	9.93E-05	8.35E-03	7.27E-05	2.88E-04	1.31E-03	2.13E-03	4.79E-05	1.67E-04	2.05E-05	4.51E-01	1.14E-02	6.12E-04	1.43E-03	3.11E-01
School																			
Maximum Offsite Concentration-->	2.07E+01	1.18E-02	4.34E-04	4.41E-04	6.93E-04	8.73E-04	7.96E-02	6.85E-04	2.62E-03	1.27E-02	2.07E-02	4.36E-04	1.50E-03	2.33E-04	4.38E+00	1.51E-01	5.98E-03	1.31E-02	2.69E+00
Average Offsite Concentration-->	1.69E+01	9.92E-03	3.52E-04	3.53E-04	5.57E-04	7.58E-04	6.38E-02	5.55E-04	2.15E-03	1.02E-02	1.66E-02	3.53E-04	1.25E-03	1.78E-04	3.51E+00	1.05E-01	4.78E-03	1.06E-02	2.28E+00
Minimum Offsite Concentration-->	1.20E+01	6.99E-03	2.50E-04	2.51E-04	3.95E-04	5.38E-04	4.53E-02	3.94E-04	1.53E-03	7.23E-03	1.18E-02	2.50E-04	8.92E-04	1.26E-04	2.50E+00	6.92E-02	3.39E-03	7.51E-03	1.60E+00
CalEPA REL		3200	NA	0.19	NA	NA	210	NA	100	NA	NA	1.8	6	NA	NA	120	30	NA	NA
Residential																			
Onsite Maximum Acute Hazard-->		7.54E-06	NA	4.67E-03	NA	NA	7.63E-04	NA	5.32E-05	NA	NA	4.86E-04	5.10E-04	NA	NA	2.50E-03	4.01E-04	NA	NA
Onsite Average Acute Hazard-->		3.07E-06	NA	1.74E-03	NA	NA	2.86E-04	NA	2.02E-05	NA	NA	1.86E-04	1.97E-04	NA	NA	8.26E-04	1.49E-04	NA	NA
Onsite Minimum Acute Hazard-->		1.20E-06	NA	5.93E-04	NA	NA	9.75E-05	NA	6.90E-06	NA	NA	6.55E-05	6.76E-05	NA	NA	2.79E-04	5.06E-05	NA	NA
Commercial/Industrial																			
Onsite Maximum Acute Hazard-->		3.76E-06	NA	2.04E-03	NA	NA	3.34E-04	NA	2.30E-05	NA	NA	2.18E-04	2.20E-04	NA	NA	6.67E-04	1.74E-04	NA	NA
Onsite Average Acute Hazard-->		1.59E-06	NA	8.80E-04	NA	NA	1.44E-04	NA	1.00E-05	NA	NA	9.45E-05	9.67E-05	NA	NA	3.18E-04	7.53E-05	NA	NA
Onsite Minimum Acute Hazard-->		4.23E-07	NA	2.40E-04	NA	NA	3.98E-05	NA	2.88E-06	NA	NA	2.66E-05	2.78E-05	NA	NA	9.51E-05	2.04E-05	NA	NA
School																			
Onsite Maximum Acute Hazard-->		3.68E-06	NA	2.32E-03	NA	NA	3.79E-04	NA	2.62E-05	NA	NA	2.42E-04	2.50E-04	NA	NA	1.26E-03	1.99E-04	NA	NA
Onsite Average Acute Hazard-->		3.10E-06	NA	1.86E-03	NA	NA	3.04E-04	NA	2.15E-05	NA	NA	1.96E-04	2.09E-04	NA	NA	8.77E-04	1.59E-04	NA	NA
Onsite Minimum Acute Hazard-->		2.18E-06	NA	1.32E-03	NA	NA	2.16E-04	NA	1.53E-05	NA	NA	1.39E-04	1.49E-04	NA	NA	5.77E-04	1.13E-04	NA	NA



**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Location Type	1-Hour PM10 Conc. ( $\mu\text{g}/\text{m}^3$ )	AMMONIUM ION ( $\mu\text{g}/\text{m}^3$ )	AMMONIUM ION Acute Hazard	ANTIMONY ( $\mu\text{g}/\text{m}^3$ )	ANTIMONY Acute Hazard	ARSENIC ( $\mu\text{g}/\text{m}^3$ )	ARSENIC Acute Hazard	BROMINE ( $\mu\text{g}/\text{m}^3$ )	BROMINE Acute Hazard	CADMIUM ( $\mu\text{g}/\text{m}^3$ )	CADMIUM Acute Hazard	CHLORINE ( $\mu\text{g}/\text{m}^3$ )	CHLORINE Acute Hazard	CHROMIUM VI ( $\mu\text{g}/\text{m}^3$ )	CHROMIUM VI Acute Hazard
CalEPA REL					3200		NA		0.19		NA		NA	210			NA
366,876	3,756,760	Residential	1.77E+01	1.12E-02	3.50E-06	3.73E-04	NA	3.65E-04	1.92E-03	5.81E-04	NA	8.05E-04	NA	6.60E-02	3.14E-04	5.74E-04	NA
366,813	3,756,739	Residential	1.74E+01	1.11E-02	3.46E-06	3.67E-04	NA	3.58E-04	1.89E-03	5.71E-04	NA	8.06E-04	NA	6.49E-02	3.09E-04	5.66E-04	NA
366,677	3,757,025	Residential	1.47E+01	8.78E-03	2.74E-06	3.07E-04	NA	3.06E-04	1.61E-03	4.84E-04	NA	6.88E-04	NA	5.53E-02	2.63E-04	4.85E-04	NA
366,536	3,757,322	Residential	1.26E+01	7.48E-03	2.34E-06	2.62E-04	NA	2.61E-04	1.37E-03	4.13E-04	NA	6.04E-04	NA	4.72E-02	2.25E-04	4.17E-04	NA
366,437	3,757,531	Residential	1.17E+01	6.74E-03	2.11E-06	2.42E-04	NA	2.43E-04	1.28E-03	3.83E-04	NA	5.60E-04	NA	4.39E-02	2.09E-04	3.88E-04	NA
366,487	3,757,537	Residential	1.18E+01	6.78E-03	2.12E-06	2.43E-04	NA	2.44E-04	1.29E-03	3.85E-04	NA	5.66E-04	NA	4.41E-02	2.10E-04	3.90E-04	NA
366,624	3,757,468	Residential	1.26E+01	7.27E-03	2.27E-06	2.59E-04	NA	2.60E-04	1.37E-03	4.10E-04	NA	6.08E-04	NA	4.69E-02	2.23E-04	4.16E-04	NA
366,644	3,757,531	Residential	1.22E+01	7.03E-03	2.20E-06	2.51E-04	NA	2.51E-04	1.32E-03	3.97E-04	NA	5.91E-04	NA	4.54E-02	2.16E-04	4.03E-04	NA
366,777	3,757,520	Residential	1.25E+01	7.27E-03	2.27E-06	2.58E-04	NA	2.58E-04	1.36E-03	4.08E-04	NA	6.09E-04	NA	4.67E-02	2.22E-04	4.14E-04	NA
366,999	3,757,642	Residential	1.06E+01	6.53E-03	2.04E-06	2.21E-04	NA	2.18E-04	1.14E-03	3.46E-04	NA	5.08E-04	NA	3.94E-02	1.88E-04	3.47E-04	NA
367,174	3,757,740	Residential	7.64E+00	5.40E-03	1.69E-06	1.63E-04	NA	1.53E-04	8.05E-04	2.48E-04	NA	3.60E-04	NA	2.78E-02	1.33E-04	2.42E-04	NA
367,291	3,757,694	Residential	8.26E+00	5.76E-03	1.80E-06	1.76E-04	NA	1.65E-04	8.70E-04	2.67E-04	NA	3.97E-04	NA	3.01E-02	1.43E-04	2.63E-04	NA
367,413	3,757,695	Residential	9.54E+00	6.56E-03	2.05E-06	2.02E-04	NA	1.90E-04	1.00E-03	3.07E-04	NA	4.71E-04	NA	3.46E-02	1.65E-04	3.05E-04	NA
367,410	3,757,736	Residential	1.00E+01	6.73E-03	2.10E-06	2.11E-04	NA	2.02E-04	1.06E-03	3.24E-04	NA	4.89E-04	NA	3.66E-02	1.74E-04	3.22E-04	NA
367,518	3,757,796	Residential	1.27E+01	7.90E-03	2.47E-06	2.66E-04	NA	2.61E-04	1.37E-03	4.15E-04	NA	6.12E-04	NA	4.72E-02	2.25E-04	4.16E-04	NA
367,798	3,758,011	Residential	1.73E+01	9.94E-03	3.11E-06	3.59E-04	NA	3.62E-04	1.90E-03	5.70E-04	NA	7.89E-04	NA	6.54E-02	3.11E-04	5.71E-04	NA
367,914	3,757,962	Residential	1.82E+01	1.06E-02	3.31E-06	3.79E-04	NA	3.81E-04	2.00E-03	6.01E-04	NA	8.20E-04	NA	6.88E-02	3.28E-04	6.00E-04	NA
367,905	3,757,930	Residential	1.84E+01	1.07E-02	3.36E-06	3.84E-04	NA	3.85E-04	2.03E-03	6.08E-04	NA	8.33E-04	NA	6.97E-02	3.32E-04	6.07E-04	NA
368,109	3,757,840	Residential	2.00E+01	1.21E-02	3.77E-06	4.21E-04	NA	4.19E-04	2.21E-03	6.63E-04	NA	8.73E-04	NA	7.58E-02	3.61E-04	6.54E-04	NA
368,233	3,757,790	Residential	2.06E+01	1.28E-02	3.99E-06	4.36E-04	NA	4.31E-04	2.27E-03	6.84E-04	NA	8.74E-04	NA	7.80E-02	3.71E-04	6.68E-04	NA
368,309	3,757,762	Residential	2.07E+01	1.31E-02	4.10E-06	4.41E-04	NA	4.33E-04	2.28E-03	6.88E-04	NA	8.67E-04	NA	7.84E-02	3.73E-04	6.69E-04	NA
368,603	3,757,765	Residential	1.65E+01	1.17E-02	3.65E-06	3.56E-04	NA	3.35E-04	1.76E-03	5.41E-04	NA	7.05E-04	NA	6.09E-02	2.90E-04	5.18E-04	NA
368,604	3,757,719	Residential	1.71E+01	1.19E-02	3.72E-06	3.68E-04	NA	3.49E-04	1.83E-03	5.62E-04	NA	7.32E-04	NA	6.34E-02	3.02E-04	5.40E-04	NA
368,770	3,757,799	Residential	3.05E+01	1.71E-02	5.34E-06	6.40E-04	NA	6.53E-04	3.44E-03	1.02E-03	NA	1.25E-03	NA	1.18E-01	5.61E-04	1.01E-03	NA
369,017	3,757,954	Residential	2.67E+01	1.63E-02	5.11E-06	5.67E-04	NA	5.63E-04	2.96E-03	8.92E-04	NA	1.09E-03	NA	1.02E-01	4.85E-04	8.67E-04	NA
369,080	3,757,864	Residential	2.61E+01	1.70E-02	5.32E-06	5.60E-04	NA	5.45E-04	2.87E-03	8.69E-04	NA	1.07E-03	NA	9.88E-02	4.70E-04	8.38E-04	NA
369,224	3,757,952	Residential	1.79E+01	1.27E-02	3.98E-06	3.89E-04	NA	3.66E-04	1.93E-03	5.92E-04	NA	7.55E-04	NA	6.67E-02	3.18E-04	5.65E-04	NA
369,409	3,757,730	Residential	1.76E+01	1.09E-02	3.41E-06	3.72E-04	NA	3.66E-04	1.93E-03	5.82E-04	NA	7.73E-04	NA	6.63E-02	3.16E-04	5.72E-04	NA
369,454	3,757,776	Residential	1.71E+01	9.56E-03	2.99E-06	3.56E-04	NA	3.62E-04	1.91E-03	5.68E-04	NA	7.50E-04	NA	6.54E-02	3.11E-04	5.68E-04	NA
369,265	3,757,997	Residential	1.53E+01	1.12E-02	3.49E-06	3.33E-04	NA	3.09E-04	1.63E-03	5.02E-04	NA	6.50E-04	NA	5.64E-02	2.68E-04	4.77E-04	NA
369,452	3,758,128	Residential	1.04E+01	6.46E-03	2.02E-06	2.20E-04	NA	2.16E-04	1.14E-03	3.44E-04	NA	4.60E-04	NA	3.92E-02	1.87E-04	3.39E-04	NA
369,460	3,758,394	Residential	9.10E+00	5.31E-03	1.66E-06	1.91E-04	NA	1.92E-04	1.01E-03	3.03E-04	NA	3.91E-04	NA	3.47E-02	1.65E-04	2.99E-04	NA
369,853	3,758,394	Residential	1.07E+01	5.42E-03	1.69E-06	2.19E-04	NA	2.29E-04	1.21E-03	3.56E-04	NA	4.67E-04	NA	4.12E-02	1.96E-04	3.60E-04	NA
369,850	3,758,078	Residential	1.19E+01	6.84E-03	2.14E-06	2.48E-04	NA	2.50E-04	1.31E-03	3.93E-04	NA	5.31E-04	NA	4.51E-02	2.15E-04	3.92E-04	NA
370,886	3,758,089	Residential	1.60E+01	9.06E-03	2.83E-06	3.35E-04	NA	3.41E-04	1.79E-03	5.35E-04	NA	6.79E-04	NA	6.16E-02	2.93E-04	5.30E-04	NA
371,193	3,757,720	Residential	1.31E+01	7.41E-03	2.31E-06	2.74E-04	NA	2.78E-04	1.46E-03	4.37E-04	NA	5.54E-04	NA	5.02E-02	2.39E-04	4.33E-04	NA
371,254	3,757,762	Residential	1.26E+01	7.10E-03	2.22E-06	2.63E-04	NA	2.67E-04	1.41E-03	4.20E-04	NA	5.32E-04	NA	4.82E-02	2.30E-04	4.16E-04	NA
371,264	3,757,783	Residential	1.24E+01	7.09E-03	2.21E-06	2.60E-04	NA	2.63E-04	1.38E-03	4.13E-04	NA	5.25E-04	NA	4.75E-02	2.26E-04	4.09E-04	NA
371,372	3,757,782	Residential	1.21E+01	6.78E-03	2.12E-06	2.53E-04	NA	2.58E-04	1.36E-03	4.05E-04	NA	5.14E-04	NA	4.66E-02	2.22E-04	4.02E-04	NA
371,399	3,757,806	Residential	1.19E+01	6.65E-03	2.08E-06	2.48E-04	NA	2.53E-04	1.33E-03	3.97E-04	NA	5.04E-04	NA	4.57E-02	2.18E-04	3.94E-04	NA
371,798	3,758,080	Residential	9.33E+00	5.25E-03	1.64E-06	1.95E-04	NA	1.98E-04	1.04E-03	3.11E-04	NA	3.97E-04	NA	3.58E-02	1.70E-04	3.09E-04	NA
371,908	3,757,934	Residential	9.96E+00	5.40E-03	1.69E-06	2.07E-04	NA	2.13E-04	1.12E-03	3.33E-04	NA	4.23E-04	NA	3.84E-02	1.83E-04	3.32E-04	NA
371,964	3,757,922	Residential	9.79E+00	5.31E-03	1.66E-06	2.04E-04	NA	2.10E-04	1.10E-03	3.28E-04	NA	4.16E-04	NA	3.78E-02	1.80E-04	3.26E-04	NA
371,970	3,757,842	Residential	9.72E+00	5.32E-03	1.66E-06	2.02E-04	NA	2.08E-04	1.09E-03	3.25E-04	NA	4.13E-04	NA	3.75E-02	1.78E-04	3.24E-04	NA
372,023	3,757,843	Residential	9.48E+00	5.20E-03	1.62E-06	1.97E-04	NA	2.02E-04	1.07E-03	3.17E-04	NA	4.03E-04	NA	3.65E-02	1.74E-04	3.15E-04	NA
370,801	3,755,276	Residential	5.95E+00	3.94E-03	1.23E-06	1.27E-04	NA	1.22E-04	6.43E-04	1.96E-04	NA	2.62E-04	NA	2.22E-02	1.05E-04	1.91E-04	NA
370,667	3,755,262	Residential	5.56E+00	3.85E-03	1.20E-06	1.19E-04	NA	1.13E-04	5.93E-04	1.82E-04	NA	2.51E-04	NA	2.05E-02	9.75E-05	1.77E-04	NA
370,380	3,755,263	Residential	6.08E+00	3.84E-03	1.20E-06	1.28E-04	NA	1.25E-04	6.58E-04	1.99E-04	NA	2.81E-04	NA	2.26E-02	1.08E-04	1.97E-04	NA
370,076	3,755,265	Residential	8.86E+00	5.36E-03	1.68E-06	1.86E-04	NA	1.84E-04	9.69E-04	2.92E-04	NA	4.02E-04	NA	3.33E-02	1.59E-04	2.90E-04	NA
369,498	3,755,268	Residential	1.24E+01	7.32E-03	2.29E-06	2.58E-04	NA	2.58E-04	1.36E-03	4.08E-04	NA	5.72E-04	NA	4.67E-02	2.22E-04	4.08E-04	NA
369,194	3,755,270	Residential	1.92E+01	1.09E-02	4.00E-06	4.00E-04	NA	4.05E-04	2.13E-03	6.37E-04	NA	8.49E-04	NA	7.32E-02	3.48E-04	6.36E-04	NA
368,889	3,755,272	Residential	3.10E+01	1.72E-02	5.39E-06	6.48E-04	NA	6.63E-04	3.49E-03	1.04E-03	NA	1.30E-03	NA	1.20E-01	5.69E-04	1.03E-03	NA

**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	1-Hour PM10 Conc. (µg/m³)	AMMONIUM ION (µg/m³)	AMMONIUM ION Acute Hazard	ANTIMONY (µg/m³)	ANTIMONY Acute Hazard	ARSENIC (µg/m³)	ARSENIC Acute Hazard	BROMINE (µg/m³)	BROMINE Acute Hazard	CADMIUM (µg/m³)	CADMIUM Acute Hazard	CHLORINE (µg/m³)	CHLORINE Acute Hazard	CHROMIUM VI (µg/m³)	CHROMIUM VI Acute Hazard
CalEPA REL					3200		NA		0.19		NA		NA		210		NA
368,569	3,755,273	Residential	4.02E+01	2.41E-02	7.54E-06	8.47E-04	NA	8.44E-04	4.44E-03	1.34E-03	NA	1.73E-03	NA	1.53E-01	7.27E-04	1.32E-03	NA
368,275	3,755,275	Residential	4.18E+01	2.33E-02	7.27E-06	8.70E-04	NA	8.88E-04	4.67E-03	1.39E-03	NA	1.80E-03	NA	1.60E-01	7.63E-04	1.39E-03	NA
367,936	3,755,213	Residential	3.36E+01	1.89E-02	5.90E-06	6.94E-04	NA	7.04E-04	3.70E-03	1.11E-03	NA	1.54E-03	NA	1.27E-01	6.05E-04	1.11E-03	NA
367,539	3,757,802	School	1.32E+01	8.11E-03	2.53E-06	2.75E-04	NA	2.70E-04	1.42E-03	4.30E-04	NA	6.32E-04	NA	4.89E-02	2.33E-04	4.31E-04	NA
367,609	3,757,677	School	1.32E+01	8.26E-03	2.58E-06	2.75E-04	NA	2.68E-04	1.41E-03	4.27E-04	NA	6.50E-04	NA	4.86E-02	2.31E-04	4.30E-04	NA
367,769	3,757,644	School	1.61E+01	9.81E-03	3.07E-06	3.34E-04	NA	3.29E-04	1.73E-03	5.22E-04	NA	7.78E-04	NA	5.95E-02	2.84E-04	5.26E-04	NA
367,775	3,757,719	School	1.68E+01	1.01E-02	3.15E-06	3.48E-04	NA	3.45E-04	1.82E-03	5.47E-04	NA	7.97E-04	NA	6.25E-02	2.97E-04	5.50E-04	NA
367,809	3,757,835	School	1.78E+01	1.05E-02	3.27E-06	3.70E-04	NA	3.70E-04	1.95E-03	5.84E-04	NA	8.24E-04	NA	6.69E-02	3.18E-04	5.86E-04	NA
367,807	3,757,936	School	1.77E+01	1.02E-02	3.20E-06	3.67E-04	NA	3.69E-04	1.94E-03	5.82E-04	NA	8.10E-04	NA	6.67E-02	3.18E-04	5.84E-04	NA
367,775	3,757,959	School	1.73E+01	1.00E-02	3.13E-06	3.60E-04	NA	3.62E-04	1.90E-03	5.70E-04	NA	7.95E-04	NA	6.54E-02	3.11E-04	5.72E-04	NA
370,299	3,758,078	School	1.62E+01	1.02E-02	3.18E-06	3.43E-04	NA	3.37E-04	1.78E-03	5.36E-04	NA	6.93E-04	NA	6.11E-02	2.91E-04	5.24E-04	NA
370,298	3,757,963	School	2.01E+01	1.18E-02	3.68E-06	4.22E-04	NA	4.25E-04	2.23E-03	6.69E-04	NA	8.48E-04	NA	7.67E-02	3.65E-04	6.59E-04	NA
370,382	3,757,966	School	2.07E+01	1.17E-02	3.66E-06	4.34E-04	NA	4.41E-04	2.32E-03	6.93E-04	NA	8.73E-04	NA	7.96E-02	3.79E-04	6.85E-04	NA
370,510	3,758,027	School	1.97E+01	1.09E-02	3.41E-06	4.12E-04	NA	4.21E-04	2.22E-03	6.60E-04	NA	8.30E-04	NA	7.60E-02	3.62E-04	6.55E-04	NA
370,506	3,758,088	School	1.87E+01	1.05E-02	3.27E-06	3.91E-04	NA	3.99E-04	2.10E-03	6.25E-04	NA	7.89E-04	NA	7.19E-02	3.43E-04	6.20E-04	NA
369,787	3,755,267	School	1.20E+01	6.99E-03	2.18E-06	2.50E-04	NA	2.51E-04	1.32E-03	3.95E-04	NA	5.38E-04	NA	4.53E-02	2.16E-04	3.94E-04	NA

**Table D-2  
Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors  
LAX Crossfield Taxiway Project  
Construction TAC Concentrations**

X	Y	Receptor Location Type	COPPER		LEAD		MANGANESE		MERCURY		NICKEL		SELENIUM		SILICON		SULFATES
			(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	
CalEPA REL			100	NA					1.8		6						
370,885	3,757,751	Commercial	2.06E-03	2.06E-05	9.96E-03	NA	1.63E-02	NA	3.46E-04	1.92E-04	1.18E-03	1.97E-04	1.21E-04	NA	3.44E+00	NA	6.10E-02
370,907	3,757,702	Commercial	1.93E-03	1.93E-05	9.33E-03	NA	1.52E-02	NA	3.27E-04	1.81E-04	1.11E-03	1.85E-04	1.16E-04	NA	3.22E+00	NA	5.92E-02
370,945	3,757,670	Commercial	1.80E-03	1.80E-05	8.67E-03	NA	1.41E-02	NA	3.05E-04	1.69E-04	1.03E-03	1.72E-04	1.10E-04	NA	2.99E+00	NA	5.67E-02
371,046	3,757,668	Commercial	1.77E-03	1.77E-05	8.55E-03	NA	1.40E-02	NA	2.96E-04	1.64E-04	1.01E-03	1.69E-04	1.06E-04	NA	2.95E+00	NA	5.39E-02
371,046	3,757,585	Commercial	1.84E-03	1.84E-05	8.90E-03	NA	1.45E-02	NA	3.07E-04	1.70E-04	1.05E-03	1.76E-04	1.09E-04	NA	3.08E+00	NA	5.55E-02
371,122	3,757,584	Commercial	1.79E-03	1.79E-05	8.63E-03	NA	1.41E-02	NA	2.97E-04	1.65E-04	1.02E-03	1.70E-04	1.06E-04	NA	2.98E+00	NA	5.41E-02
372,020	3,757,552	Commercial	9.73E-04	9.73E-06	4.65E-03	NA	7.57E-03	NA	1.66E-04	9.22E-05	5.63E-04	9.39E-05	6.82E-05	NA	1.60E+00	NA	3.76E-02
372,002	3,757,140	Commercial	1.43E-03	1.43E-05	6.87E-03	NA	1.12E-02	NA	2.39E-04	1.33E-04	8.19E-04	1.37E-04	8.94E-05	NA	2.37E+00	NA	4.67E-02
371,514	3,757,136	Commercial	1.66E-03	1.66E-05	7.99E-03	NA	1.30E-02	NA	2.80E-04	1.56E-04	9.51E-04	1.58E-04	1.01E-04	NA	2.76E+00	NA	5.18E-02
371,035	3,757,133	Commercial	2.00E-03	2.00E-05	9.63E-03	NA	1.57E-02	NA	3.40E-04	1.89E-04	1.14E-03	1.91E-04	1.19E-04	NA	3.32E+00	NA	6.01E-02
371,034	3,757,085	Commercial	1.99E-03	1.99E-05	9.59E-03	NA	1.57E-02	NA	3.40E-04	1.89E-04	1.14E-03	1.90E-04	1.19E-04	NA	3.31E+00	NA	6.02E-02
370,764	3,757,087	Commercial	2.30E-03	2.30E-05	1.11E-02	NA	1.81E-02	NA	3.93E-04	2.18E-04	1.32E-03	2.20E-04	1.37E-04	NA	3.83E+00	NA	6.96E-02
370,754	3,756,818	Commercial	2.17E-03	2.17E-05	1.04E-02	NA	1.69E-02	NA	3.77E-04	2.09E-04	1.26E-03	2.09E-04	1.47E-04	NA	3.57E+00	NA	8.00E-02
371,031	3,756,807	Commercial	1.94E-03	1.94E-05	9.29E-03	NA	1.51E-02	NA	3.33E-04	1.85E-04	1.12E-03	1.87E-04	1.33E-04	NA	3.20E+00	NA	7.29E-02
371,033	3,756,780	Commercial	1.94E-03	1.94E-05	9.25E-03	NA	1.51E-02	NA	3.31E-04	1.84E-04	1.12E-03	1.87E-04	1.34E-04	NA	3.19E+00	NA	7.36E-02
371,483	3,756,770	Commercial	1.55E-03	1.55E-05	7.39E-03	NA	1.20E-02	NA	2.62E-04	1.46E-04	8.97E-04	1.50E-04	1.11E-04	NA	2.55E+00	NA	6.24E-02
371,817	3,756,763	Commercial	1.30E-03	1.30E-05	6.19E-03	NA	1.01E-02	NA	2.19E-04	1.22E-04	7.55E-04	1.26E-04	9.71E-05	NA	2.13E+00	NA	5.52E-02
372,274	3,756,753	Commercial	1.02E-03	1.02E-05	4.82E-03	NA	7.85E-03	NA	1.72E-04	9.54E-05	5.93E-04	9.88E-05	8.06E-05	NA	1.66E+00	NA	4.69E-02
372,713	3,756,743	Commercial	8.02E-04	8.02E-06	3.77E-03	NA	6.14E-03	NA	1.36E-04	7.55E-05	4.69E-04	7.82E-05	6.78E-05	NA	1.30E+00	NA	4.04E-02
372,703	3,756,553	Commercial	5.51E-04	5.51E-06	2.52E-03	NA	4.10E-03	NA	9.61E-05	5.34E-05	3.29E-04	5.48E-05	5.92E-05	NA	8.67E-01	NA	3.79E-02
372,819	3,756,549	Commercial	5.11E-04	5.11E-06	2.33E-03	NA	3.79E-03	NA	8.95E-05	4.97E-05	3.06E-04	5.10E-05	5.64E-05	NA	8.02E-01	NA	3.64E-02
372,814	3,756,455	Commercial	4.04E-04	4.04E-06	1.81E-03	NA	2.93E-03	NA	7.23E-05	4.02E-05	2.46E-04	4.10E-05	5.18E-05	NA	6.20E-01	NA	3.46E-02
372,797	3,756,368	Commercial	3.85E-04	3.85E-06	1.72E-03	NA	2.79E-03	NA	6.80E-05	3.78E-05	2.34E-04	3.90E-05	4.78E-05	NA	5.92E-01	NA	3.82E-02
372,705	3,756,372	Commercial	3.95E-04	3.95E-06	1.77E-03	NA	2.86E-03	NA	7.00E-05	3.89E-05	2.40E-04	4.00E-05	5.09E-05	NA	6.07E-01	NA	3.40E-02
372,706	3,756,327	Commercial	3.81E-04	3.81E-06	1.71E-03	NA	2.76E-03	NA	6.71E-05	3.73E-05	2.32E-04	3.86E-05	4.91E-05	NA	5.85E-01	NA	3.28E-02
372,927	3,756,319	Commercial	3.58E-04	3.58E-06	1.61E-03	NA	2.60E-03	NA	6.26E-05	3.48E-05	2.17E-04	3.62E-05	4.53E-05	NA	5.52E-01	NA	3.02E-02
372,926	3,756,245	Commercial	3.38E-04	3.38E-06	1.52E-03	NA	2.47E-03	NA	5.85E-05	3.25E-05	2.05E-04	3.42E-05	4.26E-05	NA	5.23E-01	NA	2.83E-02
373,457	3,756,236	Commercial	2.90E-04	2.90E-06	1.31E-03	NA	2.13E-03	NA	4.98E-05	2.77E-05	1.75E-04	2.92E-05	3.57E-05	NA	4.51E-01	NA	2.36E-02
373,448	3,755,560	Commercial	2.88E-04	2.88E-06	1.38E-03	NA	2.25E-03	NA	4.79E-05	2.66E-05	1.67E-04	2.78E-05	2.05E-05	NA	4.75E-01	NA	1.14E-02
373,222	3,755,569	Commercial	2.95E-04	2.95E-06	1.41E-03	NA	2.29E-03	NA	4.92E-05	2.73E-05	1.71E-04	2.85E-05	2.16E-05	NA	4.86E-01	NA	1.22E-02
373,219	3,755,705	Commercial	3.26E-04	3.26E-06	1.55E-03	NA	2.53E-03	NA	5.36E-05	2.98E-05	1.89E-04	3.15E-05	2.50E-05	NA	5.35E-01	NA	1.43E-02
373,135	3,755,704	Commercial	3.29E-04	3.29E-06	1.57E-03	NA	2.55E-03	NA	5.43E-05	3.01E-05	1.91E-04	3.19E-05	2.54E-05	NA	5.41E-01	NA	1.46E-02
373,131	3,755,567	Commercial	2.96E-04	2.96E-06	1.41E-03	NA	2.30E-03	NA	4.95E-05	2.75E-05	1.72E-04	2.87E-05	2.21E-05	NA	4.87E-01	NA	1.25E-02
373,054	3,755,563	Commercial	2.97E-04	2.97E-06	1.41E-03	NA	2.30E-03	NA	4.96E-05	2.76E-05	1.72E-04	2.87E-05	2.25E-05	NA	4.87E-01	NA	1.29E-02
373,046	3,755,174	Commercial	3.74E-04	3.74E-06	1.79E-03	NA	2.92E-03	NA	6.24E-05	3.47E-05	2.16E-04	3.60E-05	2.64E-05	NA	6.17E-01	NA	1.47E-02
372,725	3,755,177	Commercial	4.66E-04	4.66E-06	2.24E-03	NA	3.66E-03	NA	7.73E-05	4.29E-05	2.68E-04	4.47E-05	3.03E-05	NA	7.75E-01	NA	1.62E-02
372,624	3,755,182	Commercial	4.95E-04	4.95E-06	2.38E-03	NA	3.89E-03	NA	8.19E-05	4.55E-05	2.84E-04	4.74E-05	3.15E-05	NA	8.23E-01	NA	1.67E-02
372,238	3,755,186	Commercial	6.02E-04	6.02E-06	2.91E-03	NA	4.75E-03	NA	9.95E-05	5.53E-05	3.45E-04	5.75E-05	3.64E-05	NA	1.00E+00	NA	1.87E-02
371,843	3,755,189	Commercial	6.85E-04	6.85E-06	3.31E-03	NA	5.41E-03	NA	1.14E-04	6.33E-05	3.93E-04	6.54E-05	4.10E-05	NA	1.14E+00	NA	2.08E-02
371,463	3,755,192	Commercial	7.23E-04	7.23E-06	3.48E-03	NA	5.69E-03	NA	1.21E-04	6.74E-05	4.15E-04	6.91E-05	4.44E-05	NA	1.20E+00	NA	2.29E-02
371,049	3,755,196	Commercial	7.02E-04	7.02E-06	3.34E-03	NA	5.44E-03	NA	1.19E-04	6.62E-05	4.08E-04	6.79E-05	5.23E-05	NA	1.15E+00	NA	2.96E-02
371,056	3,755,349	Commercial	8.26E-04	8.26E-06	3.97E-03	NA	6.48E-03	NA	1.40E-04	7.76E-05	4.76E-04	7.93E-05	5.30E-05	NA	1.37E+00	NA	2.80E-02
371,043	3,755,384	Commercial	8.51E-04	8.51E-06	4.09E-03	NA	6.67E-03	NA	1.44E-04	7.98E-05	4.89E-04	8.16E-05	5.44E-05	NA	1.41E+00	NA	2.87E-02
371,042	3,755,556	Commercial	9.35E-04	9.35E-06	4.50E-03	NA	7.34E-03	NA	1.57E-04	8.74E-05	5.37E-04	8.94E-05	5.80E-05	NA	1.55E+00	NA	3.01E-02
370,996	3,755,560	Commercial	9.49E-04	9.49E-06	4.57E-03	NA	7.45E-03	NA	1.60E-04	8.88E-05	5.45E-04	9.08E-05	5.91E-05	NA	1.58E+00	NA	3.08E-02
371,001	3,755,419	Commercial	8.77E-04	8.77E-06	4.21E-03	NA	6.87E-03	NA	1.48E-04	8.23E-05	5.04E-04	8.41E-05	5.61E-05	NA	1.45E+00	NA	2.96E-02
367,484	3,755,199	Residential	2.20E-03	2.20E-05	9.63E-03	NA	1.55E-02	NA	3.67E-04	2.04E-04	1.36E-03	2.27E-04	3.44E-04	NA	3.31E+00	NA	2.38E-01
367,301	3,755,623	Residential	2.85E-03	2.85E-05	1.26E-02	NA	2.03E-02	NA	4.68E-04	2.60E-04	1.76E-03	2.93E-04	4.35E-04	NA	4.32E+00	NA	3.01E-01
367,114	3,756,056	Residential	2.80E-03	2.80E-05	1.26E-02	NA	2.04E-02	NA	4.83E-04	2.68E-04	1.70E-03	2.83E-04	3.58E-04	NA	4.32E+00	NA	2.39E-01
366,985	3,756,358	Residential	2.60E-03	2.60E-05	1.15E-02	NA	1.86E-02	NA	4.18E-04	2.32E-04	1.60E-03	2.66E-04	3.87E-04	NA	3.96E+00	NA	2.66E-01
366,853	3,756,663	Residential	2.29E-03	2.29E-05	1.06E-02	NA	1.72E-02	NA	3.76E-04	2.09E-04	1.36E-03	2.27E-04	2.45E-04	NA	3.64E+00	NA	1.57E-01
366,902	3,756,692	Residential	2.29E-03	2.29E-05	1.06E-02	NA	1.73E-02	NA	3.79E-04	2.10E-04	1.35E-03	2.25E-04	2.26E-04	NA	3.67E+00	NA	1.42E-01



**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	COPPER		LEAD		MANGANESE		MERCURY		NICKEL		SELENIUM		SILICON		SULFATES
			(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	
CalEPA REL				100		NA		NA		1.8		6		NA		NA	
366,876	3,756,760	Residential	2.24E-03	2.24E-05	1.05E-02	NA	1.71E-02	NA	3.72E-04	2.07E-04	1.31E-03	2.19E-04	1.99E-04	NA	3.62E+00	NA	1.21E-01
366,813	3,756,739	Residential	2.21E-03	2.21E-05	1.03E-02	NA	1.68E-02	NA	3.66E-04	2.03E-04	1.30E-03	2.17E-04	2.10E-04	NA	3.56E+00	NA	1.30E-01
366,677	3,757,025	Residential	1.89E-03	1.89E-05	8.85E-03	NA	1.44E-02	NA	3.07E-04	1.71E-04	1.12E-03	1.86E-04	1.84E-04	NA	3.05E+00	NA	1.15E-01
366,536	3,757,322	Residential	1.63E-03	1.63E-05	7.57E-03	NA	1.23E-02	NA	2.62E-04	1.46E-04	9.71E-04	1.62E-04	1.73E-04	NA	2.61E+00	NA	1.11E-01
366,437	3,757,531	Residential	1.52E-03	1.52E-05	7.05E-03	NA	1.15E-02	NA	2.42E-04	1.35E-04	9.02E-04	1.50E-04	1.61E-04	NA	2.43E+00	NA	1.03E-01
366,487	3,757,537	Residential	1.53E-03	1.53E-05	7.09E-03	NA	1.15E-02	NA	2.44E-04	1.35E-04	9.11E-04	1.52E-04	1.65E-04	NA	2.45E+00	NA	1.06E-01
366,624	3,757,468	Residential	1.63E-03	1.63E-05	7.54E-03	NA	1.23E-02	NA	2.59E-04	1.44E-04	9.74E-04	1.62E-04	1.82E-04	NA	2.60E+00	NA	1.18E-01
366,644	3,757,531	Residential	1.58E-03	1.58E-05	7.30E-03	NA	1.19E-02	NA	2.51E-04	1.39E-04	9.45E-04	1.57E-04	1.78E-04	NA	2.52E+00	NA	1.15E-01
366,777	3,757,520	Residential	1.63E-03	1.63E-05	7.51E-03	NA	1.22E-02	NA	2.58E-04	1.44E-04	9.73E-04	1.62E-04	1.84E-04	NA	2.59E+00	NA	1.20E-01
366,999	3,757,642	Residential	1.36E-03	1.36E-05	6.30E-03	NA	1.02E-02	NA	2.21E-04	1.23E-04	8.11E-04	1.35E-04	1.47E-04	NA	2.17E+00	NA	9.44E-02
367,174	3,757,740	Residential	9.54E-04	9.54E-06	4.40E-03	NA	7.15E-03	NA	1.61E-04	8.97E-05	5.68E-04	9.47E-05	1.01E-04	NA	1.51E+00	NA	6.43E-02
367,291	3,757,694	Residential	1.04E-03	1.04E-05	4.77E-03	NA	7.74E-03	NA	1.74E-04	9.66E-05	6.23E-04	1.04E-04	1.17E-04	NA	1.64E+00	NA	7.62E-02
367,413	3,757,695	Residential	1.21E-03	1.21E-05	5.51E-03	NA	8.93E-03	NA	2.00E-04	1.11E-04	7.32E-04	1.22E-04	1.50E-04	NA	1.90E+00	NA	9.94E-02
367,410	3,757,736	Residential	1.28E-03	1.28E-05	5.83E-03	NA	9.46E-03	NA	2.10E-04	1.17E-04	7.66E-04	1.28E-04	1.51E-04	NA	2.01E+00	NA	9.88E-02
367,518	3,757,796	Residential	1.64E-03	1.64E-05	7.55E-03	NA	1.23E-02	NA	2.65E-04	1.47E-04	9.75E-04	1.63E-04	1.79E-04	NA	2.60E+00	NA	1.16E-01
367,798	3,758,011	Residential	2.22E-03	2.22E-05	1.05E-02	NA	1.70E-02	NA	3.60E-04	2.00E-04	1.30E-03	2.17E-04	1.95E-04	NA	3.61E+00	NA	1.18E-01
367,914	3,757,962	Residential	2.32E-03	2.32E-05	1.10E-02	NA	1.79E-02	NA	3.80E-04	2.11E-04	1.36E-03	2.26E-04	1.95E-04	NA	3.80E+00	NA	1.16E-01
367,905	3,757,930	Residential	2.35E-03	2.35E-05	1.11E-02	NA	1.81E-02	NA	3.85E-04	2.14E-04	1.38E-03	2.29E-04	2.00E-04	NA	3.84E+00	NA	1.19E-01
368,109	3,757,840	Residential	2.52E-03	2.52E-05	1.21E-02	NA	1.96E-02	NA	4.21E-04	2.34E-04	1.46E-03	2.43E-04	1.81E-04	NA	4.16E+00	NA	1.01E-01
368,233	3,757,790	Residential	2.57E-03	2.57E-05	1.24E-02	NA	2.02E-02	NA	4.36E-04	2.42E-04	1.48E-03	2.46E-04	1.61E-04	NA	4.26E+00	NA	8.41E-02
368,309	3,757,762	Residential	2.57E-03	2.57E-05	1.24E-02	NA	2.02E-02	NA	4.40E-04	2.44E-04	1.47E-03	2.45E-04	1.49E-04	NA	4.27E+00	NA	7.42E-02
368,603	3,757,765	Residential	2.01E-03	2.01E-05	9.56E-03	NA	1.56E-02	NA	3.52E-04	1.96E-04	1.16E-03	1.94E-04	1.39E-04	NA	3.29E+00	NA	7.60E-02
368,604	3,757,719	Residential	2.09E-03	2.09E-05	9.69E-03	NA	1.62E-02	NA	3.65E-04	2.03E-04	1.21E-03	2.02E-04	1.44E-04	NA	3.43E+00	NA	7.87E-02
368,770	3,757,799	Residential	3.84E-03	3.84E-05	1.87E-02	NA	3.06E-02	NA	6.43E-04	3.57E-04	2.18E-03	3.63E-04	1.83E-04	NA	6.48E+00	NA	7.92E-02
369,017	3,757,954	Residential	3.31E-03	3.31E-05	1.61E-02	NA	2.63E-02	NA	5.67E-04	3.15E-04	1.88E-03	3.13E-04	1.58E-04	NA	5.56E+00	NA	6.83E-02
369,080	3,757,864	Residential	3.21E-03	3.21E-05	1.55E-02	NA	2.54E-02	NA	5.58E-04	3.10E-04	1.83E-03	3.05E-04	1.64E-04	NA	5.36E+00	NA	7.49E-02
369,224	3,757,952	Residential	2.18E-03	2.18E-05	1.04E-02	NA	1.70E-02	NA	3.85E-04	2.14E-04	1.26E-03	2.09E-04	1.36E-04	NA	3.60E+00	NA	7.05E-02
369,409	3,757,730	Residential	2.21E-03	2.21E-05	1.05E-02	NA	1.72E-02	NA	3.71E-04	2.06E-04	1.28E-03	2.14E-04	1.66E-04	NA	3.63E+00	NA	9.48E-02
369,454	3,757,776	Residential	2.18E-03	2.18E-05	1.04E-02	NA	1.70E-02	NA	3.57E-04	1.99E-04	1.26E-03	2.11E-04	1.59E-04	NA	3.61E+00	NA	8.92E-02
369,265	3,757,997	Residential	1.85E-03	1.85E-05	8.81E-03	NA	1.44E-02	NA	3.29E-04	1.83E-04	1.07E-03	1.78E-04	1.24E-04	NA	3.03E+00	NA	6.70E-02
369,452	3,758,128	Residential	1.31E-03	1.31E-05	6.22E-03	NA	1.01E-02	NA	2.19E-04	1.22E-04	7.62E-04	1.27E-04	1.01E-04	NA	2.15E+00	NA	5.81E-02
369,460	3,758,394	Residential	1.15E-03	1.15E-05	5.52E-03	NA	9.01E-03	NA	1.91E-04	1.06E-04	6.62E-04	1.10E-04	7.62E-05	NA	1.91E+00	NA	4.11E-02
369,853	3,758,394	Residential	1.38E-03	1.38E-05	6.63E-03	NA	1.08E-02	NA	2.21E-04	1.23E-04	7.96E-04	1.33E-04	9.67E-05	NA	2.29E+00	NA	5.36E-02
369,850	3,758,078	Residential	1.52E-03	1.52E-05	7.21E-03	NA	1.17E-02	NA	2.48E-04	1.38E-04	8.84E-04	1.47E-04	1.21E-04	NA	2.49E+00	NA	7.10E-02
370,886	3,758,089	Residential	2.03E-03	2.03E-05	9.81E-03	NA	1.60E-02	NA	3.37E-04	1.87E-04	1.16E-03	1.94E-04	1.21E-04	NA	3.39E+00	NA	6.16E-02
371,193	3,757,720	Residential	1.66E-03	1.66E-05	8.00E-03	NA	1.31E-02	NA	2.75E-04	1.53E-04	9.48E-04	1.58E-04	9.89E-05	NA	2.76E+00	NA	5.03E-02
371,254	3,757,762	Residential	1.59E-03	1.59E-05	7.69E-03	NA	1.25E-02	NA	2.64E-04	1.47E-04	9.11E-04	1.52E-04	9.54E-05	NA	2.66E+00	NA	4.87E-02
371,264	3,757,783	Residential	1.56E-03	1.56E-05	7.56E-03	NA	1.23E-02	NA	2.61E-04	1.45E-04	8.97E-04	1.49E-04	9.44E-05	NA	2.61E+00	NA	4.83E-02
371,372	3,757,782	Residential	1.54E-03	1.54E-05	7.43E-03	NA	1.21E-02	NA	2.55E-04	1.41E-04	8.80E-04	1.47E-04	9.19E-05	NA	2.57E+00	NA	4.68E-02
371,399	3,757,806	Residential	1.51E-03	1.51E-05	7.29E-03	NA	1.19E-02	NA	2.50E-04	1.39E-04	8.63E-04	1.44E-04	9.03E-05	NA	2.52E+00	NA	4.61E-02
371,798	3,758,080	Residential	1.18E-03	1.18E-05	5.71E-03	NA	9.32E-03	NA	1.96E-04	1.09E-04	6.78E-04	1.13E-04	7.31E-05	NA	1.97E+00	NA	3.79E-02
371,908	3,757,934	Residential	1.27E-03	1.27E-05	6.14E-03	NA	1.00E-02	NA	2.09E-04	1.16E-04	7.26E-04	1.21E-04	7.59E-05	NA	2.12E+00	NA	3.87E-02
371,964	3,757,922	Residential	1.25E-03	1.25E-05	6.04E-03	NA	9.85E-03	NA	2.05E-04	1.14E-04	7.14E-04	1.19E-04	7.48E-05	NA	2.09E+00	NA	3.81E-02
371,970	3,757,842	Residential	1.24E-03	1.24E-05	5.98E-03	NA	9.76E-03	NA	2.04E-04	1.13E-04	7.09E-04	1.18E-04	7.49E-05	NA	2.07E+00	NA	3.85E-02
372,023	3,757,843	Residential	1.21E-03	1.21E-05	5.83E-03	NA	9.52E-03	NA	1.99E-04	1.10E-04	6.91E-04	1.15E-04	7.34E-05	NA	2.02E+00	NA	3.78E-02
370,801	3,755,276	Residential	7.40E-04	7.40E-06	3.50E-03	NA	5.70E-03	NA	1.26E-04	7.00E-05	4.31E-04	7.18E-05	5.78E-05	NA	1.21E+00	NA	3.34E-02
370,667	3,755,262	Residential	6.90E-04	6.90E-06	3.23E-03	NA	5.26E-03	NA	1.18E-04	6.55E-05	4.05E-04	6.76E-05	6.11E-05	NA	1.11E+00	NA	3.69E-02
370,880	3,755,263	Residential	7.71E-04	7.71E-06	3.61E-03	NA	5.86E-03	NA	1.28E-04	7.09E-05	4.55E-04	7.58E-05	7.28E-05	NA	1.24E+00	NA	4.50E-02
370,076	3,755,265	Residential	1.13E-03	1.13E-05	5.31E-03	NA	8.64E-03	NA	1.86E-04	1.03E-04	6.60E-04	1.10E-04	9.78E-05	NA	1.83E+00	NA	5.89E-02
369,498	3,755,268	Residential	1.59E-03	1.59E-05	7.46E-03	NA	1.21E-02	NA	2.59E-04	1.44E-04	9.34E-04	1.56E-04	1.47E-04	NA	2.57E+00	NA	9.00E-02
369,194	3,755,270	Residential	2.45E-03	2.45E-05	1.17E-02	NA	1.91E-02	NA	4.01E-04	2.23E-04	1.42E-03	2.37E-04	1.86E-04	NA	4.04E+00	NA	1.06E-01
368,889	3,755,272	Residential	3.93E-03	3.93E-05	1.91E-02	NA	3.11E-02	NA	6.52E-04	3.62E-04	2.24E-03	3.74E-04	2.19E-04	NA	6.58E+00	NA	1.07E-01

**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	COPPER	COPPER	LEAD	LEAD	MANGANESE	MANGANESE	MERCURY	MERCURY	NICKEL	NICKEL	SELENIUM	SELENIUM	SILICON	SILICON	SULFATES
			(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )
CalEPA REL				100		NA		NA		1.8		6		NA		NA	
368,569	3,755,273	Residential	5.06E-03	5.06E-05	2.43E-02	NA	3.96E-02	NA	8.47E-04	4.71E-04	2.92E-03	4.87E-04	3.42E-04	NA	8.38E+00	NA	1.86E-01
368,275	3,755,275	Residential	5.32E-03	5.32E-05	2.56E-02	NA	4.17E-02	NA	8.75E-04	4.86E-04	3.06E-03	5.10E-04	3.51E-04	NA	8.84E+00	NA	1.89E-01
367,936	3,755,213	Residential	4.33E-03	4.33E-05	2.04E-02	NA	3.32E-02	NA	6.97E-04	3.87E-04	2.54E-03	4.23E-04	3.92E-04	NA	7.04E+00	NA	2.40E-01
367,539	3,757,802	School	1.69E-03	1.69E-05	7.83E-03	NA	1.27E-02	NA	2.74E-04	1.52E-04	1.01E-03	1.68E-04	1.84E-04	NA	2.70E+00	NA	1.18E-01
367,609	3,757,677	School	1.70E-03	1.70E-05	7.78E-03	NA	1.26E-02	NA	2.74E-04	1.52E-04	1.02E-03	1.70E-04	2.04E-04	NA	2.68E+00	NA	1.34E-01
367,769	3,757,644	School	2.07E-03	2.07E-05	9.54E-03	NA	1.55E-02	NA	3.33E-04	1.85E-04	1.24E-03	2.06E-04	2.33E-04	NA	3.29E+00	NA	1.51E-01
367,775	3,757,719	School	2.16E-03	2.16E-05	1.00E-02	NA	1.63E-02	NA	3.48E-04	1.93E-04	1.28E-03	2.13E-04	2.26E-04	NA	3.45E+00	NA	1.44E-01
367,809	3,757,835	School	2.28E-03	2.28E-05	1.07E-02	NA	1.74E-02	NA	3.70E-04	2.06E-04	1.34E-03	2.24E-04	2.15E-04	NA	3.69E+00	NA	1.33E-01
367,807	3,757,936	School	2.27E-03	2.27E-05	1.07E-02	NA	1.74E-02	NA	3.68E-04	2.05E-04	1.33E-03	2.22E-04	2.04E-04	NA	3.69E+00	NA	1.24E-01
367,775	3,757,959	School	2.22E-03	2.22E-05	1.05E-02	NA	1.70E-02	NA	3.61E-04	2.00E-04	1.31E-03	2.18E-04	2.01E-04	NA	3.61E+00	NA	1.23E-01
370,299	3,758,078	School	2.02E-03	2.02E-05	9.67E-03	NA	1.58E-02	NA	3.43E-04	1.90E-04	1.16E-03	1.94E-04	1.33E-04	NA	3.34E+00	NA	7.12E-02
370,298	3,757,963	School	2.53E-03	2.53E-05	1.22E-02	NA	1.99E-02	NA	4.23E-04	2.35E-04	1.45E-03	2.41E-04	1.51E-04	NA	4.21E+00	NA	7.68E-02
370,382	3,757,966	School	2.62E-03	2.62E-05	1.27E-02	NA	2.07E-02	NA	4.36E-04	2.42E-04	1.50E-03	2.50E-04	1.52E-04	NA	4.38E+00	NA	7.58E-02
370,510	3,758,027	School	2.50E-03	2.50E-05	1.21E-02	NA	1.98E-02	NA	4.14E-04	2.30E-04	1.43E-03	2.38E-04	1.44E-04	NA	4.19E+00	NA	7.13E-02
370,506	3,758,088	School	2.37E-03	2.37E-05	1.15E-02	NA	1.87E-02	NA	3.93E-04	2.18E-04	1.35E-03	2.26E-04	1.38E-04	NA	3.96E+00	NA	6.92E-02
369,787	3,755,267	School	1.53E-03	1.53E-05	7.23E-03	NA	1.18E-02	NA	2.50E-04	1.39E-04	8.92E-04	1.49E-04	1.26E-04	NA	2.50E+00	NA	7.49E-02

**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard
CalEPA REL			120		30		NA		NA
370,885	3,757,751	Commercial	5.09E-04	4.70E-03	1.57E-04	1.03E-02	NA	2.22E+00	NA
370,907	3,757,702	Commercial	4.93E-04	4.40E-03	1.47E-04	9.72E-03	NA	2.15E+00	NA
370,945	3,757,670	Commercial	4.72E-04	4.09E-03	1.36E-04	9.05E-03	NA	2.06E+00	NA
371,046	3,757,668	Commercial	4.49E-04	4.03E-03	1.34E-04	8.86E-03	NA	1.86E+00	NA
371,046	3,757,585	Commercial	4.62E-04	4.20E-03	1.40E-04	9.20E-03	NA	1.88E+00	NA
371,122	3,757,584	Commercial	4.51E-04	4.07E-03	1.36E-04	8.92E-03	NA	1.82E+00	NA
372,020	3,757,552	Commercial	3.14E-04	2.19E-03	7.29E-05	4.89E-03	NA	1.20E+00	NA
372,002	3,757,140	Commercial	3.90E-04	3.24E-03	1.08E-04	7.13E-03	NA	1.53E+00	NA
371,514	3,757,136	Commercial	4.31E-04	3.76E-03	1.25E-04	8.32E-03	NA	1.86E+00	NA
371,035	3,757,133	Commercial	5.00E-04	4.54E-03	1.51E-04	1.01E-02	NA	2.30E+00	NA
371,034	3,757,085	Commercial	5.02E-04	4.53E-03	1.51E-04	1.01E-02	NA	2.37E+00	NA
370,764	3,757,087	Commercial	5.80E-04	5.23E-03	1.74E-04	1.16E-02	NA	2.72E+00	NA
370,754	3,756,818	Commercial	6.67E-04	4.88E-03	1.63E-04	1.10E-02	NA	2.89E+00	NA
371,031	3,756,807	Commercial	6.08E-04	4.37E-03	1.46E-04	9.78E-03	NA	2.42E+00	NA
371,033	3,756,780	Commercial	6.14E-04	4.36E-03	1.45E-04	9.74E-03	NA	2.39E+00	NA
371,483	3,756,770	Commercial	5.20E-04	3.47E-03	1.16E-04	7.75E-03	NA	1.84E+00	NA
371,817	3,756,763	Commercial	4.60E-04	2.91E-03	9.70E-05	6.49E-03	NA	1.55E+00	NA
372,274	3,756,753	Commercial	3.91E-04	2.26E-03	7.54E-05	5.07E-03	NA	1.24E+00	NA
372,713	3,756,743	Commercial	3.37E-04	1.77E-03	5.91E-05	3.99E-03	NA	1.02E+00	NA
372,703	3,756,553	Commercial	3.16E-04	1.18E-03	3.94E-05	2.75E-03	NA	8.77E-01	NA
372,819	3,756,549	Commercial	3.03E-04	1.09E-03	3.64E-05	2.55E-03	NA	8.34E-01	NA
372,814	3,756,455	Commercial	2.88E-04	8.43E-04	2.81E-05	2.02E-03	NA	7.57E-01	NA
372,797	3,756,368	Commercial	2.73E-04	8.04E-04	2.68E-05	1.91E-03	NA	6.86E-01	NA
372,705	3,756,372	Commercial	2.83E-04	8.25E-04	2.75E-05	1.97E-03	NA	7.14E-01	NA
372,706	3,756,327	Commercial	2.73E-04	7.95E-04	2.65E-05	1.89E-03	NA	6.73E-01	NA
372,927	3,756,319	Commercial	2.51E-04	7.49E-04	2.50E-05	1.77E-03	NA	6.13E-01	NA
372,926	3,756,245	Commercial	2.36E-04	7.10E-04	2.37E-05	1.67E-03	NA	5.53E-01	NA
373,457	3,756,236	Commercial	1.97E-04	6.12E-04	2.04E-05	1.43E-03	NA	4.55E-01	NA
373,448	3,755,560	Commercial	9.51E-05	6.48E-04	2.16E-05	1.43E-03	NA	3.11E-01	NA
373,222	3,755,569	Commercial	1.01E-04	6.62E-04	2.21E-05	1.47E-03	NA	3.27E-01	NA
373,219	3,755,705	Commercial	1.20E-04	7.28E-04	2.43E-05	1.61E-03	NA	3.40E-01	NA
373,135	3,755,704	Commercial	1.22E-04	7.36E-04	2.45E-05	1.63E-03	NA	3.47E-01	NA
373,131	3,755,567	Commercial	1.04E-04	6.64E-04	2.21E-05	1.47E-03	NA	3.33E-01	NA
373,054	3,755,563	Commercial	1.07E-04	6.63E-04	2.21E-05	1.47E-03	NA	3.38E-01	NA
373,046	3,755,174	Commercial	1.22E-04	8.41E-04	2.80E-05	1.86E-03	NA	4.10E-01	NA
372,725	3,755,177	Commercial	1.35E-04	1.06E-03	3.52E-05	2.32E-03	NA	4.77E-01	NA
372,624	3,755,182	Commercial	1.39E-04	1.12E-03	3.74E-05	2.46E-03	NA	4.99E-01	NA
372,238	3,755,186	Commercial	1.56E-04	1.37E-03	4.57E-05	3.00E-03	NA	5.93E-01	NA
371,843	3,755,189	Commercial	1.74E-04	1.56E-03	5.20E-05	3.42E-03	NA	6.93E-01	NA
371,463	3,755,192	Commercial	1.91E-04	1.64E-03	5.47E-05	3.62E-03	NA	7.85E-01	NA
371,049	3,755,196	Commercial	2.47E-04	1.57E-03	5.24E-05	3.51E-03	NA	8.56E-01	NA
371,056	3,755,349	Commercial	2.33E-04	1.87E-03	6.24E-05	4.15E-03	NA	9.44E-01	NA
371,043	3,755,384	Commercial	2.39E-04	1.93E-03	6.42E-05	4.27E-03	NA	9.66E-01	NA
371,042	3,755,556	Commercial	2.51E-04	2.12E-03	7.07E-05	4.68E-03	NA	1.03E+00	NA
370,996	3,755,560	Commercial	2.56E-04	2.15E-03	7.17E-05	4.76E-03	NA	1.05E+00	NA
371,001	3,755,419	Commercial	2.47E-04	1.99E-03	6.62E-05	4.40E-03	NA	9.96E-01	NA
367,484	3,755,199	Residential	1.99E-03	4.45E-03	1.48E-04	1.05E-02	NA	3.46E+00	NA
367,301	3,755,623	Residential	2.50E-03	5.81E-03	1.94E-04	1.36E-02	NA	4.12E+00	NA
367,114	3,756,056	Residential	1.99E-03	5.86E-03	1.95E-04	1.38E-02	NA	4.56E+00	NA
366,985	3,756,358	Residential	2.22E-03	5.32E-03	1.77E-04	1.23E-02	NA	3.43E+00	NA
366,853	3,756,663	Residential	1.31E-03	4.93E-03	1.64E-04	1.11E-02	NA	2.74E+00	NA
366,902	3,756,692	Residential	1.18E-03	4.98E-03	1.66E-04	1.12E-02	NA	2.75E+00	NA

**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard
CalEPA REL			120		30		NA		NA
366,876	3,756,760	Residential	1.00E-03	4.92E-03	1.64E-04	1.10E-02	NA	2.64E+00	NA
366,813	3,756,739	Residential	1.08E-03	4.84E-03	1.61E-04	1.09E-02	NA	2.61E+00	NA
366,677	3,757,025	Residential	9.54E-04	4.14E-03	1.38E-04	9.21E-03	NA	2.03E+00	NA
366,536	3,757,322	Residential	9.24E-04	3.53E-03	1.18E-04	7.88E-03	NA	1.73E+00	NA
366,437	3,757,531	Residential	8.56E-04	3.29E-03	1.10E-04	7.31E-03	NA	1.54E+00	NA
366,487	3,757,537	Residential	8.85E-04	3.31E-03	1.10E-04	7.35E-03	NA	1.55E+00	NA
366,624	3,757,468	Residential	9.80E-04	3.51E-03	1.17E-04	7.83E-03	NA	1.67E+00	NA
366,644	3,757,531	Residential	9.62E-04	3.40E-03	1.13E-04	7.58E-03	NA	1.61E+00	NA
366,777	3,757,520	Residential	9.98E-04	3.50E-03	1.17E-04	7.80E-03	NA	1.67E+00	NA
366,999	3,757,642	Residential	7.87E-04	2.94E-03	9.80E-05	6.59E-03	NA	1.53E+00	NA
367,174	3,757,740	Residential	5.36E-04	2.06E-03	6.86E-05	4.71E-03	NA	1.32E+00	NA
367,291	3,757,694	Residential	6.35E-04	2.22E-03	7.41E-05	5.09E-03	NA	1.40E+00	NA
367,413	3,757,695	Residential	8.28E-04	2.56E-03	8.54E-05	5.87E-03	NA	1.59E+00	NA
367,410	3,757,736	Residential	8.23E-04	2.71E-03	9.05E-05	6.18E-03	NA	1.62E+00	NA
367,518	3,757,796	Residential	9.64E-04	3.52E-03	1.17E-04	7.91E-03	NA	1.86E+00	NA
367,798	3,758,011	Residential	9.85E-04	4.90E-03	1.63E-04	1.08E-02	NA	2.27E+00	NA
367,914	3,757,962	Residential	9.65E-04	5.15E-03	1.72E-04	1.14E-02	NA	2.43E+00	NA
367,905	3,757,930	Residential	9.94E-04	5.22E-03	1.74E-04	1.15E-02	NA	2.46E+00	NA
368,109	3,757,840	Residential	8.45E-04	5.67E-03	1.89E-04	1.26E-02	NA	2.79E+00	NA
368,233	3,757,790	Residential	7.01E-04	5.82E-03	1.94E-04	1.29E-02	NA	2.98E+00	NA
368,309	3,757,762	Residential	6.18E-04	5.84E-03	1.95E-04	1.30E-02	NA	3.08E+00	NA
368,603	3,757,765	Residential	6.33E-04	4.51E-03	1.50E-04	1.02E-02	NA	2.84E+00	NA
368,604	3,757,719	Residential	6.56E-04	4.69E-03	1.56E-04	1.06E-02	NA	2.88E+00	NA
368,770	3,757,799	Residential	6.60E-04	8.86E-03	2.95E-04	1.93E-02	NA	3.83E+00	NA
369,017	3,757,954	Residential	5.69E-04	7.62E-03	2.54E-04	1.68E-02	NA	3.79E+00	NA
369,080	3,757,864	Residential	6.24E-04	7.35E-03	2.45E-04	1.64E-02	NA	4.03E+00	NA
369,224	3,757,952	Residential	5.88E-04	4.93E-03	1.64E-04	1.11E-02	NA	3.09E+00	NA
369,409	3,757,730	Residential	7.90E-04	4.95E-03	1.65E-04	1.10E-02	NA	2.55E+00	NA
369,454	3,757,776	Residential	7.43E-04	4.91E-03	1.64E-04	1.08E-02	NA	2.15E+00	NA
369,265	3,757,997	Residential	5.58E-04	4.16E-03	1.39E-04	9.46E-03	NA	2.74E+00	NA
369,452	3,758,128	Residential	4.84E-04	2.92E-03	9.75E-05	6.51E-03	NA	1.51E+00	NA
369,460	3,758,394	Residential	3.42E-04	2.60E-03	8.66E-05	5.72E-03	NA	1.21E+00	NA
369,853	3,758,394	Residential	4.47E-04	3.11E-03	1.04E-04	6.76E-03	NA	1.17E+00	NA
369,850	3,758,078	Residential	5.92E-04	3.38E-03	1.13E-04	7.46E-03	NA	1.56E+00	NA
370,886	3,758,089	Residential	5.13E-04	4.62E-03	1.54E-04	1.01E-02	NA	2.04E+00	NA
371,193	3,757,720	Residential	4.20E-04	3.77E-03	1.26E-04	8.26E-03	NA	1.67E+00	NA
371,254	3,757,762	Residential	4.06E-04	3.62E-03	1.21E-04	7.93E-03	NA	1.60E+00	NA
371,264	3,757,783	Residential	4.02E-04	3.56E-03	1.19E-04	7.81E-03	NA	1.61E+00	NA
371,372	3,757,782	Residential	3.90E-04	3.50E-03	1.17E-04	7.66E-03	NA	1.52E+00	NA
371,399	3,757,806	Residential	3.84E-04	3.43E-03	1.14E-04	7.51E-03	NA	1.49E+00	NA
371,798	3,758,080	Residential	3.16E-04	2.69E-03	8.96E-05	5.89E-03	NA	1.18E+00	NA
371,908	3,757,934	Residential	3.22E-04	2.89E-03	9.64E-05	6.30E-03	NA	1.20E+00	NA
371,964	3,757,922	Residential	3.18E-04	2.84E-03	9.48E-05	6.20E-03	NA	1.18E+00	NA
371,970	3,757,842	Residential	3.21E-04	2.82E-03	9.39E-05	6.15E-03	NA	1.18E+00	NA
372,023	3,757,843	Residential	3.15E-04	2.75E-03	9.15E-05	6.00E-03	NA	1.16E+00	NA
370,801	3,755,276	Residential	2.79E-04	1.65E-03	5.49E-05	3.70E-03	NA	9.39E-01	NA
370,667	3,755,262	Residential	3.08E-04	1.52E-03	5.06E-05	3.44E-03	NA	9.32E-01	NA
370,380	3,755,263	Residential	3.75E-04	1.69E-03	5.63E-05	3.79E-03	NA	9.05E-01	NA
370,076	3,755,265	Residential	4.91E-04	2.49E-03	8.30E-05	5.54E-03	NA	1.24E+00	NA
369,498	3,755,268	Residential	7.50E-04	3.49E-03	1.16E-04	7.76E-03	NA	1.69E+00	NA
369,194	3,755,270	Residential	8.87E-04	5.49E-03	1.83E-04	1.21E-02	NA	2.46E+00	NA
368,889	3,755,272	Residential	8.90E-04	8.98E-03	2.99E-04	1.96E-02	NA	3.86E+00	NA

**Table D-2**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor LocationType	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard
CalEPA REL			120		30		NA		NA
368,569	3,755,273	Residential	1.55E-03	1.14E-02	3.81E-04	2.53E-02	NA	5.56E+00	NA
368,275	3,755,275	Residential	1.57E-03	1.20E-02	4.01E-04	2.64E-02	NA	5.22E+00	NA
367,936	3,755,213	Residential	2.00E-03	9.54E-03	3.18E-04	2.11E-02	NA	4.27E+00	NA
367,539	3,757,802	School	9.87E-04	3.65E-03	1.22E-04	8.20E-03	NA	1.90E+00	NA
367,609	3,757,677	School	1.12E-03	3.62E-03	1.21E-04	8.17E-03	NA	1.95E+00	NA
367,769	3,757,644	School	1.26E-03	4.44E-03	1.48E-04	9.98E-03	NA	2.29E+00	NA
367,775	3,757,719	School	1.20E-03	4.67E-03	1.56E-04	1.04E-02	NA	2.34E+00	NA
367,809	3,757,835	School	1.11E-03	5.00E-03	1.67E-04	1.11E-02	NA	2.40E+00	NA
367,807	3,757,936	School	1.03E-03	5.00E-03	1.67E-04	1.11E-02	NA	2.34E+00	NA
367,775	3,757,959	School	1.02E-03	4.90E-03	1.63E-04	1.08E-02	NA	2.28E+00	NA
370,299	3,758,078	School	5.94E-04	4.56E-03	1.52E-04	1.01E-02	NA	2.38E+00	NA
370,298	3,757,963	School	6.40E-04	5.75E-03	1.92E-04	1.26E-02	NA	2.69E+00	NA
370,382	3,757,966	School	6.31E-04	5.98E-03	1.99E-04	1.31E-02	NA	2.64E+00	NA
370,510	3,758,027	School	5.94E-04	5.71E-03	1.90E-04	1.25E-02	NA	2.44E+00	NA
370,506	3,758,088	School	5.77E-04	5.40E-03	1.80E-04	1.18E-02	NA	2.35E+00	NA
369,787	3,755,267	School	6.24E-04	3.39E-03	1.13E-04	7.51E-03	NA	1.60E+00	NA

**Table D-3**  
**Summary of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

Receptor Location Type	1-Hour PM10 Conc. (µg/m <sup>3</sup> )	AMMONIUM ION (µg/m <sup>3</sup> )	ANTIMONY (µg/m <sup>3</sup> )	ARSENIC (µg/m <sup>3</sup> )	BROMINE (µg/m <sup>3</sup> )	CADMIUM (µg/m <sup>3</sup> )	CHLORINE (µg/m <sup>3</sup> )	CHROMIUM VI (µg/m <sup>3</sup> )	COPPER (µg/m <sup>3</sup> )	LEAD (µg/m <sup>3</sup> )	MANGANESE (µg/m <sup>3</sup> )	MERCURY (µg/m <sup>3</sup> )	NICKEL (µg/m <sup>3</sup> )	SELENIUM (µg/m <sup>3</sup> )	SILICON (µg/m <sup>3</sup> )	SULFATES (µg/m <sup>3</sup> )	VANADIUM (µg/m <sup>3</sup> )	ZINC (µg/m <sup>3</sup> )	DIESEL PM (µg/m <sup>3</sup> )
Residential																			
Maximum Offsite Concentration-->	1.53E+01	1.32E-02	3.38E-04	2.99E-04	5.11E-04	6.74E-04	5.69E-02	4.65E-04	1.83E-03	8.48E-03	1.38E-02	3.31E-04	1.08E-03	2.01E-04	2.91E+00	1.56E-01	3.99E-03	9.34E-03	3.39E+00
Average Offsite Concentration-->	5.95E+00	5.38E-03	1.33E-04	1.12E-04	1.96E-04	2.74E-04	2.16E-02	1.75E-04	7.04E-04	3.17E-03	5.15E-03	1.29E-04	4.24E-04	7.47E-05	1.09E+00	5.41E-02	1.49E-03	3.58E-03	1.39E+00
Minimum Offsite Concentration-->	2.12E+00	2.12E-03	4.85E-05	3.83E-05	6.93E-05	9.79E-05	7.51E-03	5.98E-05	2.43E-04	1.08E-03	1.75E-03	4.66E-05	1.48E-04	2.60E-05	3.68E-01	1.90E-02	5.05E-04	1.25E-03	5.52E-01
Commercial/Industrial																			
Maximum Offsite Concentration-->	6.89E+00	6.66E-03	1.56E-04	1.31E-04	2.30E-04	2.94E-04	2.53E-02	2.01E-04	7.96E-04	3.68E-03	5.99E-03	1.52E-04	4.70E-04	6.60E-05	1.26E+00	4.78E-02	1.74E-03	4.16E-03	1.75E+00
Average Offsite Concentration-->	3.00E+00	2.79E-03	6.79E-05	5.65E-05	9.96E-05	1.32E-04	1.09E-02	8.75E-05	3.49E-04	1.59E-03	2.59E-03	6.58E-05	2.08E-04	3.10E-05	5.45E-01	2.21E-02	7.50E-04	1.81E-03	7.24E-01
Minimum Offsite Concentration-->	8.44E-01	7.38E-04	1.88E-05	1.56E-05	2.80E-05	3.76E-05	3.10E-03	2.49E-05	9.98E-05	4.40E-04	7.09E-04	1.83E-05	5.95E-05	9.10E-06	1.49E-01	6.42E-03	2.05E-04	5.11E-04	1.89E-01
School																			
Maximum Offsite Concentration-->	7.60E+00	6.39E-03	1.69E-04	1.48E-04	2.55E-04	3.25E-04	2.83E-02	2.29E-04	9.00E-04	4.20E-03	6.84E-03	1.65E-04	5.29E-04	1.05E-04	1.44E+00	7.79E-02	1.98E-03	4.64E-03	1.63E+00
Average Offsite Concentration-->	6.25E+00	5.41E-03	1.39E-04	1.19E-04	2.06E-04	2.89E-04	2.28E-02	1.87E-04	7.48E-04	3.38E-03	5.49E-03	1.35E-04	4.50E-04	7.90E-05	1.16E+00	5.68E-02	1.58E-03	3.77E-03	1.39E+00
Minimum Offsite Concentration-->	4.43E+00	3.80E-03	9.79E-05	8.44E-05	1.46E-04	2.05E-04	1.62E-02	1.33E-04	5.31E-04	2.40E-03	3.90E-03	9.54E-05	3.20E-04	5.65E-05	8.23E-01	4.07E-02	1.12E-03	2.68E-03	9.72E-01
CalEPA REL		3200	NA	0.19	NA	NA	210	NA	100	NA	NA	1.8	6	NA	NA	120	30	NA	NA
Residential																			
Onsite Maximum Acute Hazard-->		4.12E-06	NA	1.57E-03	NA	NA	2.71E-04	NA	1.83E-05	NA	NA	1.84E-04	1.81E-04	NA	NA	1.30E-03	1.33E-04	NA	NA
Onsite Average Acute Hazard-->		1.68E-06	NA	5.89E-04	NA	NA	1.03E-04	NA	7.04E-06	NA	NA	7.18E-05	7.07E-05	NA	NA	4.51E-04	4.96E-05	NA	NA
Onsite Minimum Acute Hazard-->		6.63E-07	NA	2.02E-04	NA	NA	3.57E-05	NA	2.43E-06	NA	NA	2.59E-05	2.47E-05	NA	NA	1.58E-04	1.68E-05	NA	NA
Commercial/Industrial																			
Onsite Maximum Acute Hazard-->		2.08E-06	NA	6.88E-04	NA	NA	1.20E-04	NA	7.96E-06	NA	NA	8.43E-05	7.83E-05	NA	NA	3.98E-04	5.79E-05	NA	NA
Onsite Average Acute Hazard-->		8.71E-07	NA	2.97E-04	NA	NA	5.21E-05	NA	3.49E-06	NA	NA	3.66E-05	3.46E-05	NA	NA	1.84E-04	2.50E-05	NA	NA
Onsite Minimum Acute Hazard-->		2.31E-07	NA	8.23E-05	NA	NA	1.48E-05	NA	9.98E-07	NA	NA	1.02E-05	9.91E-06	NA	NA	5.35E-05	6.82E-06	NA	NA
School																			
Onsite Maximum Acute Hazard-->		2.00E-06	NA	7.80E-04	NA	NA	1.35E-04	NA	9.00E-06	NA	NA	9.17E-05	8.81E-05	NA	NA	6.49E-04	6.60E-05	NA	NA
Onsite Average Acute Hazard-->		1.69E-06	NA	6.26E-04	NA	NA	1.09E-04	NA	7.48E-06	NA	NA	7.49E-05	7.50E-05	NA	NA	4.74E-04	5.28E-05	NA	NA
Onsite Minimum Acute Hazard-->		1.19E-06	NA	4.44E-04	NA	NA	7.71E-05	NA	5.31E-06	NA	NA	5.30E-05	5.33E-05	NA	NA	3.39E-04	3.75E-05	NA	NA

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour PM10 Conc. (mg/m <sup>3</sup> )	AMMONIUM ION (µg/m <sup>3</sup> )	AMMONIUM ION Acute Hazard	ANTIMONY (µg/m <sup>3</sup> )	ANTIMONY Acute Hazard	ARSENIC (µg/m <sup>3</sup> )	ARSENIC Acute Hazard	BROMINE (µg/m <sup>3</sup> )	BROMINE Acute Hazard	CADMIUM (µg/m <sup>3</sup> )	CADMIUM Acute Hazard	CHLORINE (µg/m <sup>3</sup> )	CHLORINE Acute Hazard	CHROMIUM VI (µg/m <sup>3</sup> )	CHROMIUM VI Acute Hazard
CalEPA REL					3200		NA		0.19		NA		NA		210		NA
370885	3757751	Commercial	6.05E+00	5.26E-03	1.65E-06	1.36E-04	NA	1.17E-04	6.15E-04	2.02E-04	NA	2.59E-04	NA	2.24E-02	1.07E-04	1.80E-04	NA
370907	3757702	Commercial	5.72E+00	5.09E-03	1.59E-06	1.29E-04	NA	1.10E-04	5.77E-04	1.91E-04	NA	2.45E-04	NA	2.11E-02	1.00E-04	1.69E-04	NA
370945	3757670	Commercial	5.35E+00	4.84E-03	1.51E-06	1.21E-04	NA	1.02E-04	5.37E-04	1.78E-04	NA	2.30E-04	NA	1.97E-02	9.37E-05	1.57E-04	NA
371046	3757668	Commercial	5.17E+00	4.43E-03	1.38E-06	1.15E-04	NA	1.00E-04	5.27E-04	1.73E-04	NA	2.22E-04	NA	1.92E-02	9.14E-05	1.55E-04	NA
371046	3757585	Commercial	5.36E+00	4.50E-03	1.41E-06	1.19E-04	NA	1.04E-04	5.48E-04	1.79E-04	NA	2.30E-04	NA	1.99E-02	9.49E-05	1.61E-04	NA
371122	3757584	Commercial	5.19E+00	4.35E-03	1.36E-06	1.15E-04	NA	1.01E-04	5.31E-04	1.74E-04	NA	2.23E-04	NA	1.93E-02	9.19E-05	1.56E-04	NA
372020	3757552	Commercial	2.93E+00	2.79E-03	8.72E-07	6.67E-05	NA	5.48E-05	2.89E-04	9.73E-05	NA	1.29E-04	NA	1.06E-02	5.07E-05	8.48E-05	NA
372002	3757140	Commercial	4.18E+00	3.63E-03	1.13E-06	9.35E-05	NA	8.05E-05	4.24E-04	1.40E-04	NA	1.81E-04	NA	1.55E-02	7.36E-05	1.25E-04	NA
371514	3757136	Commercial	4.91E+00	4.39E-03	1.37E-06	1.11E-04	NA	9.39E-05	4.94E-04	1.64E-04	NA	2.11E-04	NA	1.81E-02	8.61E-05	1.45E-04	NA
371035	3757133	Commercial	5.95E+00	5.42E-03	1.69E-06	1.35E-04	NA	1.13E-04	5.97E-04	1.99E-04	NA	2.54E-04	NA	2.19E-02	1.04E-04	1.74E-04	NA
371034	3757085	Commercial	5.97E+00	5.54E-03	1.73E-06	1.36E-04	NA	1.13E-04	5.95E-04	1.99E-04	NA	2.55E-04	NA	2.19E-02	1.04E-04	1.74E-04	NA
370764	3757087	Commercial	6.89E+00	6.38E-03	1.99E-06	1.56E-04	NA	1.31E-04	6.88E-04	2.30E-04	NA	2.94E-04	NA	2.53E-02	1.20E-04	2.01E-04	NA
370754	3756818	Commercial	6.67E+00	6.66E-03	2.08E-06	1.53E-04	NA	1.23E-04	6.47E-04	2.21E-04	NA	2.90E-04	NA	2.40E-02	1.14E-04	1.89E-04	NA
371031	3756807	Commercial	5.88E+00	5.62E-03	1.76E-06	1.34E-04	NA	1.10E-04	5.77E-04	1.95E-04	NA	2.57E-04	NA	2.13E-02	1.02E-04	1.69E-04	NA
371033	3756780	Commercial	5.84E+00	5.57E-03	1.74E-06	1.33E-04	NA	1.09E-04	5.75E-04	1.94E-04	NA	2.56E-04	NA	2.12E-02	1.01E-04	1.69E-04	NA
371483	3756770	Commercial	4.63E+00	4.30E-03	1.35E-06	1.05E-04	NA	8.70E-05	4.58E-04	1.53E-04	NA	2.05E-04	NA	1.68E-02	8.02E-05	1.35E-04	NA
371817	3756763	Commercial	3.89E+00	3.61E-03	1.13E-06	8.78E-05	NA	7.28E-05	3.83E-04	1.29E-04	NA	1.74E-04	NA	1.41E-02	6.72E-05	1.13E-04	NA
372274	3756753	Commercial	3.05E+00	2.89E-03	9.03E-07	6.91E-05	NA	5.68E-05	2.99E-04	1.01E-04	NA	1.38E-04	NA	1.10E-02	5.25E-05	8.85E-05	NA
372713	3756743	Commercial	2.43E+00	2.37E-03	7.40E-07	5.52E-05	NA	4.46E-05	2.35E-04	7.98E-05	NA	1.11E-04	NA	8.69E-03	4.14E-05	6.96E-05	NA
372703	3756553	Commercial	1.75E+00	1.98E-03	6.18E-07	4.10E-05	NA	3.02E-05	1.59E-04	5.67E-05	NA	8.44E-05	NA	6.03E-03	2.87E-05	4.75E-05	NA
372819	3756549	Commercial	1.64E+00	1.88E-03	5.86E-07	3.84E-05	NA	2.80E-05	1.47E-04	5.28E-05	NA	7.93E-05	NA	5.60E-03	2.67E-05	4.40E-05	NA
372814	3756455	Commercial	1.34E+00	1.68E-03	5.25E-07	3.20E-05	NA	2.18E-05	1.15E-04	4.28E-05	NA	6.71E-05	NA	4.46E-03	2.12E-05	3.45E-05	NA
372797	3756368	Commercial	1.26E+00	1.53E-03	4.78E-07	2.98E-05	NA	2.07E-05	1.09E-04	4.02E-05	NA	6.32E-05	NA	4.21E-03	2.00E-05	3.29E-05	NA
372705	3756372	Commercial	1.30E+00	1.59E-03	4.97E-07	3.08E-05	NA	2.13E-05	1.12E-04	4.14E-05	NA	6.52E-05	NA	4.33E-03	2.06E-05	3.38E-05	NA
372706	3756327	Commercial	1.24E+00	1.50E-03	4.69E-07	2.94E-05	NA	2.05E-05	1.08E-04	3.96E-05	NA	6.26E-05	NA	4.16E-03	1.98E-05	3.26E-05	NA
372927	3756319	Commercial	1.16E+00	1.37E-03	4.28E-07	2.72E-05	NA	1.93E-05	1.01E-04	3.70E-05	NA	5.82E-05	NA	3.89E-03	1.85E-05	3.06E-05	NA
372926	3756245	Commercial	1.08E+00	1.24E-03	3.88E-07	2.52E-05	NA	1.82E-05	9.56E-05	3.45E-05	NA	5.44E-05	NA	3.65E-03	1.74E-05	2.89E-05	NA
373457	3756236	Commercial	9.16E-01	1.03E-03	3.21E-07	2.12E-05	NA	1.56E-05	8.23E-05	2.94E-05	NA	4.61E-05	NA	3.13E-03	1.49E-05	2.49E-05	NA
373448	3755560	Commercial	8.44E-01	7.38E-04	2.31E-07	1.88E-05	NA	1.61E-05	8.49E-05	2.80E-05	NA	3.76E-05	NA	3.10E-03	1.48E-05	2.51E-05	NA
373222	3755569	Commercial	8.69E-01	7.73E-04	2.42E-07	1.95E-05	NA	1.65E-05	8.69E-05	2.88E-05	NA	3.89E-05	NA	3.18E-03	1.51E-05	2.57E-05	NA
373219	3755705	Commercial	9.46E-01	8.09E-04	2.53E-07	2.10E-05	NA	1.81E-05	9.53E-05	3.13E-05	NA	4.30E-05	NA	3.47E-03	1.65E-05	2.84E-05	NA
373135	3755704	Commercial	9.59E-01	8.25E-04	2.58E-07	2.13E-05	NA	1.83E-05	9.64E-05	3.17E-05	NA	4.36E-05	NA	3.51E-03	1.67E-05	2.87E-05	NA
373131	3755567	Commercial	8.75E-01	7.85E-04	2.45E-07	1.96E-05	NA	1.66E-05	8.72E-05	2.90E-05	NA	3.93E-05	NA	3.19E-03	1.52E-05	2.58E-05	NA
373054	3755563	Commercial	8.78E-01	7.95E-04	2.48E-07	1.97E-05	NA	1.66E-05	8.72E-05	2.90E-05	NA	3.95E-05	NA	3.20E-03	1.52E-05	2.58E-05	NA
373046	3755174	Commercial	1.10E+00	9.68E-04	3.03E-07	2.46E-05	NA	2.09E-05	1.10E-04	3.65E-05	NA	4.88E-05	NA	4.03E-03	1.92E-05	3.26E-05	NA
372725	3755177	Commercial	1.35E+00	1.14E-03	3.56E-07	3.00E-05	NA	2.62E-05	1.38E-04	4.51E-05	NA	5.92E-05	NA	5.02E-03	2.39E-05	4.07E-05	NA
372624	3755182	Commercial	1.43E+00	1.20E-03	3.74E-07	3.17E-05	NA	2.78E-05	1.46E-04	4.78E-05	NA	6.25E-05	NA	5.32E-03	2.53E-05	4.32E-05	NA
372238	3755186	Commercial	1.74E+00	1.43E-03	4.46E-07	3.84E-05	NA	3.39E-05	1.79E-04	5.81E-05	NA	7.50E-05	NA	6.48E-03	3.08E-05	5.26E-05	NA
371843	3755189	Commercial	1.99E+00	1.66E-03	5.19E-07	4.42E-05	NA	3.87E-05	2.04E-04	6.65E-05	NA	8.56E-05	NA	7.40E-03	3.52E-05	5.99E-05	NA
371463	3755192	Commercial	2.13E+00	1.86E-03	5.82E-07	4.77E-05	NA	4.09E-05	2.15E-04	7.10E-05	NA	9.17E-05	NA	7.85E-03	3.74E-05	6.32E-05	NA
371049	3755196	Commercial	2.11E+00	2.00E-03	6.25E-07	4.79E-05	NA	3.94E-05	2.07E-04	6.98E-05	NA	9.42E-05	NA	7.64E-03	3.64E-05	6.11E-05	NA
371056	3755349	Commercial	2.46E+00	2.22E-03	6.95E-07	5.54E-05	NA	4.67E-05	2.46E-04	8.18E-05	NA	1.07E-04	NA	9.01E-03	4.29E-05	7.22E-05	NA
371043	3755384	Commercial	2.52E+00	2.28E-03	7.12E-07	5.69E-05	NA	4.81E-05	2.53E-04	8.41E-05	NA	1.09E-04	NA	9.27E-03	4.41E-05	7.43E-05	NA
371042	3755556	Commercial	2.76E+00	2.44E-03	7.62E-07	6.19E-05	NA	5.28E-05	2.78E-04	9.20E-05	NA	1.19E-04	NA	1.02E-02	4.84E-05	8.16E-05	NA
370966	3755560	Commercial	2.80E+00	2.49E-03	7.79E-07	6.30E-05	NA	5.36E-05	2.82E-04	9.35E-05	NA	1.21E-04	NA	1.03E-02	4.92E-05	8.29E-05	NA
371001	3755419	Commercial	2.60E+00	2.35E-03	7.34E-07	5.86E-05	NA	4.95E-05	2.61E-04	8.66E-05	NA	1.13E-04	NA	9.55E-03	4.55E-05	7.66E-05	NA

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour PM10 Conc. (mg/m <sup>3</sup> )	AMMONIUM ION (µg/m <sup>3</sup> )	AMMONIUM ION Acute Hazard	ANTIMONY (µg/m <sup>3</sup> )	ANTIMONY Acute Hazard	ARSENIC (µg/m <sup>3</sup> )	ARSENIC Acute Hazard	BROMINE (µg/m <sup>3</sup> )	BROMINE Acute Hazard	CADMIUM (µg/m <sup>3</sup> )	CADMIUM Acute Hazard	CHLORINE (µg/m <sup>3</sup> )	CHLORINE Acute Hazard	CHROMIUM VI (µg/m <sup>3</sup> )	CHROMIUM VI Acute Hazard
CalEPA REL					3200		NA		0.19		NA		NA		210		NA
367484	3755199	Residential	6.90E+00	7.79E-03	2.43E-06	1.58E-04	NA	1.14E-04	6.02E-04	2.17E-04	NA	3.79E-04	NA	2.29E-02	1.09E-04	1.87E-04	NA
367301	375623	Residential	8.75E+00	9.33E-03	2.91E-06	1.98E-04	NA	1.48E-04	7.81E-04	2.76E-04	NA	4.80E-04	NA	2.95E-02	1.40E-04	2.44E-04	NA
367114	3756056	Residential	8.92E+00	1.02E-02	3.20E-06	2.08E-04	NA	1.50E-04	7.92E-04	2.85E-04	NA	4.51E-04	NA	3.02E-02	1.44E-04	2.40E-04	NA
366985	3756358	Residential	7.77E+00	7.85E-03	2.45E-06	1.74E-04	NA	1.35E-04	7.09E-04	2.46E-04	NA	4.23E-04	NA	2.65E-02	1.26E-04	2.21E-04	NA
366853	3756663	Residential	6.78E+00	6.40E-03	2.00E-06	1.52E-04	NA	1.24E-04	6.52E-04	2.20E-04	NA	3.33E-04	NA	2.41E-02	1.15E-04	1.97E-04	NA
366902	3756692	Residential	6.80E+00	6.43E-03	2.01E-06	1.53E-04	NA	1.25E-04	6.58E-04	2.22E-04	NA	3.26E-04	NA	2.43E-02	1.16E-04	1.98E-04	NA
366876	3756760	Residential	6.65E+00	6.20E-03	1.94E-06	1.49E-04	NA	1.23E-04	6.49E-04	2.18E-04	NA	3.10E-04	NA	2.39E-02	1.14E-04	1.94E-04	NA
366813	3756739	Residential	6.56E+00	6.12E-03	1.91E-06	1.47E-04	NA	1.21E-04	6.38E-04	2.14E-04	NA	3.11E-04	NA	2.35E-02	1.12E-04	1.91E-04	NA
366677	3757025	Residential	5.50E+00	4.81E-03	1.50E-06	1.21E-04	NA	1.03E-04	5.43E-04	1.80E-04	NA	2.64E-04	NA	1.98E-02	9.45E-05	1.64E-04	NA
366536	3757322	Residential	4.72E+00	4.10E-03	1.28E-06	1.04E-04	NA	8.81E-05	4.64E-04	1.53E-04	NA	2.33E-04	NA	1.69E-02	8.07E-05	1.41E-04	NA
366437	3757531	Residential	4.35E+00	3.67E-03	1.15E-06	9.48E-05	NA	8.18E-05	4.31E-04	1.42E-04	NA	2.15E-04	NA	1.57E-02	7.47E-05	1.31E-04	NA
366487	3757537	Residential	4.38E+00	3.69E-03	1.15E-06	9.54E-05	NA	8.22E-05	4.33E-04	1.42E-04	NA	2.18E-04	NA	1.58E-02	7.51E-05	1.32E-04	NA
366624	3757468	Residential	4.67E+00	3.97E-03	1.24E-06	1.02E-04	NA	8.75E-05	4.60E-04	1.52E-04	NA	2.35E-04	NA	1.68E-02	8.00E-05	1.41E-04	NA
366644	3757531	Residential	4.52E+00	3.83E-03	1.20E-06	9.85E-05	NA	8.47E-05	4.46E-04	1.47E-04	NA	2.28E-04	NA	1.63E-02	7.74E-05	1.36E-04	NA
366777	3757520	Residential	4.66E+00	3.97E-03	1.24E-06	1.01E-04	NA	8.70E-05	4.58E-04	1.51E-04	NA	2.36E-04	NA	1.67E-02	7.96E-05	1.40E-04	NA
366999	3757642	Residential	3.97E+00	3.58E-03	1.12E-06	8.78E-05	NA	7.34E-05	3.86E-04	1.29E-04	NA	1.97E-04	NA	1.42E-02	6.76E-05	1.17E-04	NA
367174	3757740	Residential	2.92E+00	3.01E-03	9.40E-07	6.67E-05	NA	5.20E-05	2.73E-04	9.48E-05	NA	1.41E-04	NA	1.02E-02	4.88E-05	8.21E-05	NA
367291	3757694	Residential	3.16E+00	3.23E-03	1.01E-06	7.20E-05	NA	5.62E-05	2.96E-04	1.02E-04	NA	1.56E-04	NA	1.10E-02	5.26E-05	8.93E-05	NA
367413	3757695	Residential	3.65E+00	3.67E-03	1.15E-06	8.24E-05	NA	6.48E-05	3.41E-04	1.17E-04	NA	1.86E-04	NA	1.27E-02	6.05E-05	1.04E-04	NA
367410	3757736	Residential	3.82E+00	3.76E-03	1.17E-06	8.59E-05	NA	6.85E-05	3.60E-04	1.23E-04	NA	1.92E-04	NA	1.34E-02	6.37E-05	1.10E-04	NA
367518	3757796	Residential	4.79E+00	4.36E-03	1.36E-06	1.06E-04	NA	8.81E-05	4.64E-04	1.55E-04	NA	2.37E-04	NA	1.70E-02	8.12E-05	1.41E-04	NA
367798	3758011	Residential	6.39E+00	5.40E-03	1.69E-06	1.40E-04	NA	1.22E-04	6.41E-04	2.10E-04	NA	3.01E-04	NA	2.33E-02	1.11E-04	1.92E-04	NA
367914	3757962	Residential	6.73E+00	5.77E-03	1.80E-06	1.49E-04	NA	1.28E-04	6.75E-04	2.22E-04	NA	3.13E-04	NA	2.46E-02	1.17E-04	2.02E-04	NA
367905	3757930	Residential	6.82E+00	5.84E-03	1.83E-06	1.51E-04	NA	1.30E-04	6.83E-04	2.25E-04	NA	3.18E-04	NA	2.49E-02	1.19E-04	2.04E-04	NA
368109	3757840	Residential	7.42E+00	6.58E-03	2.06E-06	1.66E-04	NA	1.41E-04	7.43E-04	2.46E-04	NA	3.31E-04	NA	2.72E-02	1.30E-04	2.20E-04	NA
368233	3757790	Residential	7.65E+00	6.98E-03	2.18E-06	1.73E-04	NA	1.45E-04	7.65E-04	2.55E-04	NA	3.31E-04	NA	2.81E-02	1.34E-04	2.24E-04	NA
368309	3757762	Residential	7.71E+00	7.19E-03	2.25E-06	1.75E-04	NA	1.46E-04	7.68E-04	2.57E-04	NA	3.27E-04	NA	2.83E-02	1.35E-04	2.24E-04	NA
368603	3757765	Residential	6.27E+00	6.53E-03	2.04E-06	1.46E-04	NA	1.14E-04	5.99E-04	2.07E-04	NA	2.72E-04	NA	2.24E-02	1.07E-04	1.75E-04	NA
368604	3757719	Residential	6.46E+00	6.61E-03	2.06E-06	1.50E-04	NA	1.18E-04	6.22E-04	2.14E-04	NA	2.81E-04	NA	2.32E-02	1.11E-04	1.82E-04	NA
368770	3757799	Residential	1.11E+01	9.22E-03	2.88E-06	2.48E-04	NA	2.19E-04	1.16E-03	3.76E-04	NA	4.61E-04	NA	4.19E-02	1.99E-04	3.37E-04	NA
369017	3757954	Residential	9.86E+00	8.90E-03	2.78E-06	2.24E-04	NA	1.90E-04	9.99E-04	3.32E-04	NA	4.05E-04	NA	3.66E-02	1.74E-04	2.90E-04	NA
369080	3757864	Residential	9.74E+00	9.35E-03	2.92E-06	2.24E-04	NA	1.84E-04	9.68E-04	3.27E-04	NA	4.02E-04	NA	3.58E-02	1.70E-04	2.80E-04	NA
369224	3757952	Residential	6.80E+00	7.06E-03	2.21E-06	1.58E-04	NA	1.24E-04	6.54E-04	2.26E-04	NA	2.89E-04	NA	2.45E-02	1.16E-04	1.90E-04	NA
369409	3757730	Residential	6.55E+00	5.96E-03	1.86E-06	1.47E-04	NA	1.24E-04	6.50E-04	2.17E-04	NA	2.94E-04	NA	2.39E-02	1.14E-04	1.92E-04	NA
369454	3757776	Residential	6.27E+00	5.16E-03	1.61E-06	1.38E-04	NA	1.22E-04	6.40E-04	2.09E-04	NA	2.82E-04	NA	2.32E-02	1.11E-04	1.90E-04	NA
369265	3757997	Residential	5.82E+00	6.23E-03	1.95E-06	1.36E-04	NA	1.05E-04	5.53E-04	1.93E-04	NA	2.50E-04	NA	2.08E-02	9.90E-05	1.61E-04	NA
369452	3758128	Residential	3.88E+00	3.53E-03	1.10E-06	8.71E-05	NA	7.30E-05	3.84E-04	1.28E-04	NA	1.75E-04	NA	1.41E-02	6.72E-05	1.14E-04	NA
369460	3758394	Residential	3.35E+00	2.88E-03	8.98E-07	7.46E-05	NA	6.46E-05	3.40E-04	1.12E-04	NA	1.47E-04	NA	1.24E-02	5.90E-05	1.00E-04	NA
369853	3758394	Residential	3.86E+00	2.88E-03	8.99E-07	8.35E-05	NA	7.67E-05	4.04E-04	1.29E-04	NA	1.73E-04	NA	1.45E-02	6.91E-05	1.20E-04	NA
369850	3758078	Residential	4.39E+00	3.72E-03	1.16E-06	9.69E-05	NA	8.40E-05	4.42E-04	1.45E-04	NA	2.01E-04	NA	1.61E-02	7.66E-05	1.32E-04	NA
370886	3758089	Residential	5.88E+00	4.89E-03	1.53E-06	1.30E-04	NA	1.15E-04	6.03E-04	1.97E-04	NA	2.53E-04	NA	2.19E-02	1.04E-04	1.77E-04	NA
371193	3757720	Residential	4.80E+00	4.00E-03	1.25E-06	1.07E-04	NA	9.36E-05	4.92E-04	1.61E-04	NA	2.07E-04	NA	1.79E-02	8.52E-05	1.45E-04	NA
371254	3757762	Residential	4.61E+00	3.84E-03	1.20E-06	1.02E-04	NA	8.99E-05	4.73E-04	1.54E-04	NA	1.99E-04	NA	1.72E-02	8.18E-05	1.39E-04	NA
371264	3757783	Residential	4.55E+00	3.83E-03	1.20E-06	1.01E-04	NA	8.84E-05	4.65E-04	1.52E-04	NA	1.96E-04	NA	1.69E-02	8.06E-05	1.37E-04	NA
371372	3757782	Residential	4.44E+00	3.66E-03	1.14E-06	9.84E-05	NA	8.68E-05	4.57E-04	1.49E-04	NA	1.91E-04	NA	1.66E-02	7.89E-05	1.34E-04	NA
371399	3757806	Residential	4.36E+00	3.59E-03	1.12E-06	9.65E-05	NA	8.51E-05	4.48E-04	1.46E-04	NA	1.88E-04	NA	1.62E-02	7.74E-05	1.32E-04	NA
371798	3758080	Residential	3.42E+00	2.84E-03	8.86E-07	7.58E-05	NA	6.67E-05	3.51E-04	1.14E-04	NA	1.48E-04	NA	1.27E-02	6.07E-05	1.03E-04	NA
371908	3757934	Residential	3.63E+00	2.90E-03	9.08E-07	8.00E-05	NA	7.16E-05	3.77E-04	1.22E-04	NA	1.57E-04	NA	1.36E-02	6.48E-05	1.11E-04	NA
371964	3757922	Residential	3.57E+00	2.85E-03	8.91E-07	7.87E-05	NA	7.04E-05	3.70E-04	1.20E-04	NA	1.54E-04	NA	1.34E-02	6.37E-05	1.09E-04	NA
371970	3757842	Residential	3.55E+00	2.86E-03	8.95E-07	7.83E-05	NA	6.98E-05	3.67E-04	1.19E-04	NA	1.54E-04	NA	1.33E-02	6.33E-05	1.08E-04	NA
372023	3757843	Residential	3.47E+00	2.80E-03	8.74E-07	7.64E-05	NA	6.80E-05	3.58E-04	1.16E-04	NA	1.50E-04	NA	1.30E-02	6.17E-05	1.06E-04	NA
370801	3755276	Residential	2.24E+00	2.18E-03	6.81E-07	5.11E-05	NA	4.14E-05	2.18E-04	7.39E-05	NA	1.01E-04	NA	8.06E-03	3.84E-05	6.43E-05	NA



**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour PM10 Conc. (mg/m <sup>3</sup> )	AMMONIUM ION (µg/m <sup>3</sup> )	AMMONIUM ION Acute Hazard	ANTIMONY (µg/m <sup>3</sup> )	ANTIMONY Acute Hazard	ARSENIC (µg/m <sup>3</sup> )	ARSENIC Acute Hazard	BROMINE (µg/m <sup>3</sup> )	BROMINE Acute Hazard	CADMIUM (µg/m <sup>3</sup> )	CADMIUM Acute Hazard	CHLORINE (µg/m <sup>3</sup> )	CHLORINE Acute Hazard	CHROMIUM VI (µg/m <sup>3</sup> )	CHROMIUM VI Acute Hazard
CalEPA REL					3200		NA		0.19		NA		NA	210		NA	NA
370667	3755262	Residential	2.12E+00	2.15E-03	6.71E-07	4.85E-05	NA	3.83E-05	2.02E-04	6.93E-05	NA	9.79E-05	NA	7.51E-03	3.57E-05	5.98E-05	NA
370380	3755263	Residential	2.28E+00	2.12E-03	6.63E-07	5.11E-05	NA	4.22E-05	2.22E-04	7.47E-05	NA	1.09E-04	NA	8.18E-03	3.90E-05	6.67E-05	NA
370076	3755265	Residential	3.30E+00	2.92E-03	9.14E-07	7.33E-05	NA	6.20E-05	3.26E-04	1.08E-04	NA	1.54E-04	NA	1.20E-02	5.70E-05	9.77E-05	NA
369498	3755268	Residential	4.61E+00	4.00E-03	1.25E-06	1.02E-04	NA	8.70E-05	4.58E-04	1.51E-04	NA	2.20E-04	NA	1.67E-02	7.96E-05	1.38E-04	NA
369194	3755270	Residential	7.06E+00	5.88E-03	1.84E-06	1.56E-04	NA	1.36E-04	7.17E-04	2.34E-04	NA	3.21E-04	NA	2.60E-02	1.24E-04	2.13E-04	NA
368889	3755272	Residential	1.13E+01	9.29E-03	2.90E-06	2.51E-04	NA	2.23E-04	1.17E-03	3.80E-04	NA	4.82E-04	NA	4.24E-02	2.02E-04	3.44E-04	NA
368569	3755273	Residential	1.49E+01	1.32E-02	4.12E-06	3.34E-04	NA	2.85E-04	1.50E-03	4.95E-04	NA	6.56E-04	NA	5.47E-02	2.61E-04	4.42E-04	NA
368275	3755275	Residential	1.53E+01	1.26E-02	3.94E-06	3.38E-04	NA	2.99E-04	1.57E-03	5.11E-04	NA	6.74E-04	NA	5.69E-02	2.71E-04	4.65E-04	NA
367936	3755213	Residential	1.24E+01	1.03E-02	3.21E-06	2.71E-04	NA	2.37E-04	1.25E-03	4.07E-04	NA	5.89E-04	NA	4.53E-02	2.16E-04	3.76E-04	NA
367539	3757802	School	4.95E+00	4.46E-03	1.40E-06	1.09E-04	NA	9.14E-05	4.81E-04	1.61E-04	NA	2.45E-04	NA	1.77E-02	8.41E-05	1.46E-04	NA
367609	3757677	School	4.97E+00	4.57E-03	1.43E-06	1.10E-04	NA	9.07E-05	4.77E-04	1.60E-04	NA	2.54E-04	NA	1.76E-02	8.37E-05	1.46E-04	NA
367769	3757644	School	6.03E+00	5.40E-03	1.69E-06	1.33E-04	NA	1.11E-04	5.85E-04	1.95E-04	NA	3.03E-04	NA	2.15E-02	1.02E-04	1.78E-04	NA
367775	3757719	School	6.26E+00	5.53E-03	1.73E-06	1.38E-04	NA	1.17E-04	6.13E-04	2.04E-04	NA	3.08E-04	NA	2.25E-02	1.07E-04	1.86E-04	NA
367809	3757835	School	6.61E+00	5.70E-03	1.78E-06	1.46E-04	NA	1.25E-04	6.56E-04	2.16E-04	NA	3.16E-04	NA	2.39E-02	1.14E-04	1.98E-04	NA
367807	3757936	School	6.55E+00	5.57E-03	1.74E-06	1.44E-04	NA	1.24E-04	6.54E-04	2.15E-04	NA	3.10E-04	NA	2.38E-02	1.14E-04	1.97E-04	NA
367775	3757959	School	6.41E+00	5.44E-03	1.70E-06	1.41E-04	NA	1.22E-04	6.41E-04	2.11E-04	NA	3.04E-04	NA	2.34E-02	1.11E-04	1.93E-04	NA
370299	3758078	School	6.03E+00	5.58E-03	1.74E-06	1.37E-04	NA	1.14E-04	6.00E-04	2.01E-04	NA	2.63E-04	NA	2.21E-02	1.05E-04	1.76E-04	NA
370298	3757963	School	7.40E+00	6.39E-03	2.00E-06	1.65E-04	NA	1.43E-04	7.52E-04	2.47E-04	NA	3.17E-04	NA	2.74E-02	1.31E-04	2.21E-04	NA
370382	3757966	School	7.60E+00	6.33E-03	1.98E-06	1.69E-04	NA	1.48E-04	7.80E-04	2.55E-04	NA	3.25E-04	NA	2.83E-02	1.35E-04	2.29E-04	NA
370510	3758027	School	7.21E+00	5.88E-03	1.84E-06	1.59E-04	NA	1.41E-04	7.45E-04	2.42E-04	NA	3.08E-04	NA	2.70E-02	1.28E-04	2.19E-04	NA
370506	3758088	School	6.85E+00	5.65E-03	1.77E-06	1.52E-04	NA	1.34E-04	7.05E-04	2.29E-04	NA	2.93E-04	NA	2.56E-02	1.22E-04	2.07E-04	NA
369787	3755267	School	4.43E+00	3.80E-03	1.19E-06	9.79E-05	NA	8.44E-05	4.44E-04	1.46E-04	NA	2.05E-04	NA	1.62E-02	7.71E-05	1.33E-04	NA

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	COPPER	COPPER	LEAD	LEAD	MANGANESE	MANGANESE	MERCURY	MERCURY	NICKEL	NICKEL	SELENIUM	SELENIUM	SILICON	SILICON	SULFATES
			(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )
CalEPA REL				100		NA		NA		1.8		6		NA		NA	
370885	3757751	Commercial	7.10E-04	7.10E-06	3.30E-03	NA	5.37E-03	NA	1.32E-04	7.34E-05	4.18E-04	6.97E-05	5.35E-05	NA	1.13E+00	NA	3.67E-02
370907	3757702	Commercial	6.68E-04	6.68E-06	3.09E-03	NA	5.03E-03	NA	1.25E-04	6.95E-05	3.94E-04	6.56E-05	5.13E-05	NA	1.06E+00	NA	3.55E-02
370945	3757670	Commercial	6.22E-04	6.22E-06	2.87E-03	NA	4.68E-03	NA	1.17E-04	6.51E-05	3.68E-04	6.13E-05	4.87E-05	NA	9.85E-01	NA	3.39E-02
371046	3757668	Commercial	6.10E-04	6.10E-06	2.83E-03	NA	4.61E-03	NA	1.13E-04	6.26E-05	3.59E-04	5.98E-05	4.65E-05	NA	9.72E-01	NA	3.19E-02
371046	3757585	Commercial	6.34E-04	6.34E-06	2.95E-03	NA	4.80E-03	NA	1.16E-04	6.47E-05	3.73E-04	6.21E-05	4.80E-05	NA	1.01E+00	NA	3.27E-02
371122	3757584	Commercial	6.15E-04	6.15E-06	2.86E-03	NA	4.66E-03	NA	1.13E-04	6.26E-05	3.61E-04	6.02E-05	4.67E-05	NA	9.81E-01	NA	3.18E-02
372020	3757552	Commercial	3.39E-04	3.39E-06	1.54E-03	NA	2.51E-03	NA	6.45E-05	3.58E-05	2.02E-04	3.37E-05	3.05E-05	NA	5.28E-01	NA	2.19E-02
372002	3757140	Commercial	4.92E-04	4.92E-06	2.28E-03	NA	3.71E-03	NA	9.11E-05	5.06E-05	2.91E-04	4.85E-05	3.94E-05	NA	7.81E-01	NA	2.73E-02
371514	3757136	Commercial	5.72E-04	5.72E-06	2.65E-03	NA	4.31E-03	NA	1.07E-04	5.97E-05	3.38E-04	5.63E-05	4.44E-05	NA	9.07E-01	NA	3.08E-02
371035	3757133	Commercial	6.90E-04	6.90E-06	3.19E-03	NA	5.20E-03	NA	1.31E-04	7.26E-05	4.07E-04	6.78E-05	5.25E-05	NA	1.09E+00	NA	3.65E-02
371034	3757085	Commercial	6.89E-04	6.89E-06	3.18E-03	NA	5.18E-03	NA	1.31E-04	7.30E-05	4.07E-04	6.78E-05	5.25E-05	NA	1.09E+00	NA	3.66E-02
370764	3757087	Commercial	7.96E-04	7.96E-06	3.68E-03	NA	5.99E-03	NA	1.52E-04	8.43E-05	4.70E-04	7.83E-05	6.10E-05	NA	1.26E+00	NA	4.26E-02
370754	3756818	Commercial	7.57E-04	7.57E-06	3.44E-03	NA	5.60E-03	NA	1.48E-04	8.21E-05	4.52E-04	7.53E-05	6.60E-05	NA	1.18E+00	NA	4.78E-02
371031	3756807	Commercial	6.77E-04	6.77E-06	3.08E-03	NA	5.01E-03	NA	1.29E-04	7.19E-05	4.03E-04	6.72E-05	5.95E-05	NA	1.05E+00	NA	4.27E-02
371033	3756780	Commercial	6.74E-04	6.74E-06	3.07E-03	NA	4.99E-03	NA	1.29E-04	7.14E-05	4.02E-04	6.70E-05	5.99E-05	NA	1.05E+00	NA	4.30E-02
371483	3756770	Commercial	5.39E-04	5.39E-06	2.45E-03	NA	3.99E-03	NA	1.01E-04	5.63E-05	3.22E-04	5.37E-05	4.98E-05	NA	8.40E-01	NA	3.57E-02
371817	3756763	Commercial	4.53E-04	4.53E-06	2.06E-03	NA	3.34E-03	NA	8.50E-05	4.72E-05	2.71E-04	4.52E-05	4.34E-05	NA	7.04E-01	NA	3.13E-02
372274	3756753	Commercial	3.55E-04	3.55E-06	1.60E-03	NA	2.60E-03	NA	6.68E-05	3.71E-05	2.14E-04	3.57E-05	3.62E-05	NA	5.48E-01	NA	2.63E-02
372713	3756743	Commercial	2.81E-04	2.81E-06	1.26E-03	NA	2.04E-03	NA	5.32E-05	2.96E-05	1.70E-04	2.84E-05	3.06E-05	NA	4.29E-01	NA	2.25E-02
372703	3756553	Commercial	1.97E-04	1.97E-06	8.45E-04	NA	1.37E-03	NA	3.89E-05	2.16E-05	1.23E-04	2.04E-05	2.07E-05	NA	2.87E-01	NA	2.08E-02
372819	3756549	Commercial	1.83E-04	1.83E-06	7.82E-04	NA	1.26E-03	NA	3.64E-05	2.02E-05	1.14E-04	1.91E-05	2.59E-05	NA	2.66E-01	NA	1.99E-02
372814	3756455	Commercial	1.47E-04	1.47E-06	6.07E-04	NA	9.77E-04	NA	3.01E-05	1.67E-05	9.35E-05	1.56E-05	2.40E-05	NA	2.05E-01	NA	1.88E-02
372797	3756368	Commercial	1.39E-04	1.39E-06	5.79E-04	NA	9.32E-04	NA	2.81E-05	1.56E-05	8.86E-05	1.48E-05	2.27E-05	NA	1.96E-01	NA	1.77E-02
372705	3756372	Commercial	1.43E-04	1.43E-06	5.94E-04	NA	9.56E-04	NA	2.90E-05	1.61E-05	9.13E-05	1.52E-05	2.35E-05	NA	2.01E-01	NA	1.84E-02
372706	3756327	Commercial	1.38E-04	1.38E-06	5.73E-04	NA	9.22E-04	NA	2.77E-05	1.54E-05	8.78E-05	1.46E-05	2.27E-05	NA	1.94E-01	NA	1.77E-02
372927	3756319	Commercial	1.29E-04	1.29E-06	5.39E-04	NA	8.69E-04	NA	2.57E-05	1.43E-05	8.20E-05	1.37E-05	2.09E-05	NA	1.83E-01	NA	1.63E-02
372926	3756245	Commercial	1.22E-04	1.22E-06	5.10E-04	NA	8.22E-04	NA	2.38E-05	1.32E-05	7.72E-05	1.29E-05	1.96E-05	NA	1.73E-01	NA	1.52E-02
373457	3756236	Commercial	1.04E-04	1.04E-06	4.40E-04	NA	7.09E-04	NA	2.02E-05	1.12E-05	6.58E-05	1.10E-05	1.64E-05	NA	1.49E-01	NA	1.26E-02
373448	3755560	Commercial	9.98E-05	9.98E-07	4.57E-04	NA	7.43E-04	NA	1.83E-05	1.02E-05	5.95E-05	9.91E-06	9.10E-06	NA	1.57E-01	NA	6.42E-03
373222	3755569	Commercial	1.02E-04	1.02E-06	4.67E-04	NA	7.60E-04	NA	1.89E-05	1.05E-05	6.12E-05	1.02E-05	9.61E-06	NA	1.60E-01	NA	6.83E-03
373219	3755705	Commercial	1.13E-04	1.13E-06	5.14E-04	NA	8.36E-04	NA	2.04E-05	1.14E-05	6.77E-05	1.13E-05	1.12E-05	NA	1.76E-01	NA	7.93E-03
373135	3755704	Commercial	1.14E-04	1.14E-06	5.20E-04	NA	8.45E-04	NA	2.07E-05	1.15E-05	6.85E-05	1.14E-05	1.14E-05	NA	1.78E-01	NA	8.09E-03
373131	3755567	Commercial	1.03E-04	1.03E-06	4.69E-04	NA	7.62E-04	NA	1.90E-05	1.06E-05	6.16E-05	1.03E-05	9.83E-06	NA	1.61E-01	NA	7.02E-03
373054	3755563	Commercial	1.03E-04	1.03E-06	4.69E-04	NA	7.62E-04	NA	1.91E-05	1.06E-05	6.18E-05	1.03E-05	1.00E-05	NA	1.61E-01	NA	7.18E-03
373046	3755174	Commercial	1.30E-04	1.30E-06	5.93E-04	NA	9.64E-04	NA	2.39E-05	1.33E-05	7.72E-05	1.29E-05	1.17E-05	NA	2.03E-01	NA	8.32E-03
372725	3755177	Commercial	1.61E-04	1.61E-06	7.43E-04	NA	1.21E-03	NA	2.93E-05	1.63E-05	9.51E-05	1.58E-05	1.34E-05	NA	2.55E-01	NA	9.26E-03
372624	3755182	Commercial	1.70E-04	1.70E-06	7.89E-04	NA	1.28E-03	NA	3.10E-05	1.72E-05	1.01E-04	1.68E-05	1.39E-05	NA	2.71E-01	NA	9.58E-03
372238	3755186	Commercial	2.07E-04	2.07E-06	9.62E-04	NA	1.57E-03	NA	3.76E-05	2.09E-05	1.22E-04	2.03E-05	1.60E-05	NA	3.30E-01	NA	1.09E-02
371843	3755189	Commercial	2.36E-04	2.36E-06	1.10E-03	NA	1.79E-03	NA	4.32E-05	2.40E-05	1.39E-04	2.31E-05	1.80E-05	NA	3.77E-01	NA	1.23E-02
371463	3755192	Commercial	2.50E-04	2.50E-06	1.15E-03	NA	1.88E-03	NA	4.64E-05	2.58E-05	1.47E-04	2.45E-05	1.96E-05	NA	3.96E-01	NA	1.35E-02
371049	3755196	Commercial	2.45E-04	2.45E-06	1.11E-03	NA	1.80E-03	NA	4.63E-05	2.57E-05	1.47E-04	2.45E-05	2.34E-05	NA	3.80E-01	NA	1.69E-02
371056	3755349	Commercial	2.86E-04	2.86E-06	1.32E-03	NA	2.14E-03	NA	5.38E-05	2.99E-05	1.70E-04	2.83E-05	2.36E-05	NA	4.51E-01	NA	1.65E-02
371043	3755384	Commercial	2.95E-04	2.95E-06	1.36E-03	NA	2.21E-03	NA	5.52E-05	3.07E-05	1.74E-04	2.91E-05	2.42E-05	NA	4.65E-01	NA	1.69E-02
371042	3755556	Commercial	3.23E-04	3.23E-06	1.49E-03	NA	2.43E-03	NA	6.02E-05	3.35E-05	1.91E-04	3.18E-05	2.57E-05	NA	5.11E-01	NA	1.78E-02
370996	3755560	Commercial	3.28E-04	3.28E-06	1.51E-03	NA	2.46E-03	NA	6.13E-05	3.40E-05	1.94E-04	3.23E-05	2.62E-05	NA	5.19E-01	NA	1.82E-02
371001	3755419	Commercial	3.03E-04	3.03E-06	1.40E-03	NA	2.27E-03	NA	5.69E-05	3.16E-05	1.80E-04	3.00E-05	2.49E-05	NA	4.79E-01	NA	1.74E-02

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	COPPER	COPPER	LEAD	LEAD	MANGANESE	MANGANESE	MERCURY	MERCURY	NICKEL	NICKEL	SELENIUM	SELENIUM	SILICON	SILICON	SULFATES
			( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )
CalEPA REL				100		NA		NA		1.8		6		NA		NA	
367484	3755199	Residential	8.03E-04	8.03E-06	3.25E-03	NA	5.21E-03	NA	1.50E-04	8.32E-05	5.23E-04	8.71E-05	1.60E-04	NA	1.10E+00	NA	1.25E-01
367301	3755623	Residential	1.04E-03	1.04E-05	4.23E-03	NA	6.80E-03	NA	1.88E-04	1.05E-04	6.70E-04	1.12E-04	2.01E-04	NA	1.44E+00	NA	1.56E-01
367114	3756056	Residential	1.01E-03	1.01E-05	4.22E-03	NA	6.81E-03	NA	1.97E-04	1.09E-04	6.39E-04	1.07E-04	1.63E-04	NA	1.43E+00	NA	1.26E-01
366985	3756358	Residential	9.32E-04	9.32E-06	3.86E-03	NA	6.20E-03	NA	1.66E-04	9.23E-05	5.98E-04	9.97E-05	1.74E-04	NA	1.31E+00	NA	1.34E-01
366853	3756663	Residential	8.06E-04	8.06E-06	3.52E-03	NA	5.70E-03	NA	1.46E-04	8.14E-05	4.97E-04	8.29E-05	1.09E-04	NA	1.20E+00	NA	8.14E-02
366902	3756692	Residential	8.03E-04	8.03E-06	3.54E-03	NA	5.74E-03	NA	1.48E-04	8.20E-05	4.92E-04	8.20E-05	1.01E-04	NA	1.21E+00	NA	7.47E-02
366876	3756760	Residential	7.82E-04	7.82E-06	3.49E-03	NA	5.67E-03	NA	1.45E-04	8.03E-05	4.74E-04	7.91E-05	8.83E-05	NA	1.20E+00	NA	6.45E-02
366813	3756739	Residential	7.75E-04	7.75E-06	3.44E-03	NA	5.57E-03	NA	1.42E-04	7.90E-05	4.73E-04	7.89E-05	9.37E-05	NA	1.18E+00	NA	6.89E-02
366677	3757025	Residential	6.62E-04	6.62E-06	2.94E-03	NA	4.77E-03	NA	1.18E-04	6.56E-05	4.04E-04	6.73E-05	8.15E-05	NA	1.01E+00	NA	5.95E-02
366536	3757322	Residential	5.73E-04	5.73E-06	2.52E-03	NA	4.08E-03	NA	1.01E-04	5.59E-05	3.52E-04	5.87E-05	7.71E-05	NA	8.64E-01	NA	5.69E-02
366437	3757531	Residential	5.32E-04	5.32E-06	2.34E-03	NA	3.80E-03	NA	9.24E-05	5.14E-05	3.27E-04	5.45E-05	7.15E-05	NA	8.04E-01	NA	5.25E-02
366487	3757537	Residential	5.36E-04	5.36E-06	2.36E-03	NA	3.82E-03	NA	9.29E-05	5.16E-05	3.30E-04	5.50E-05	7.36E-05	NA	8.09E-01	NA	5.42E-02
366624	3757468	Residential	5.73E-04	5.73E-06	2.51E-03	NA	4.06E-03	NA	9.92E-05	5.51E-05	3.54E-04	5.90E-05	8.09E-05	NA	8.60E-01	NA	5.98E-02
366644	3757531	Residential	5.55E-04	5.55E-06	2.43E-03	NA	3.93E-03	NA	9.59E-05	5.33E-05	3.43E-04	5.72E-05	7.93E-05	NA	8.33E-01	NA	5.86E-02
366777	3757520	Residential	5.72E-04	5.72E-06	2.50E-03	NA	4.04E-03	NA	9.88E-05	5.49E-05	3.54E-04	5.90E-05	8.23E-05	NA	8.56E-01	NA	6.09E-02
366999	3757642	Residential	4.79E-04	4.79E-06	2.10E-03	NA	3.39E-03	NA	8.51E-05	4.73E-05	2.96E-04	4.93E-05	6.62E-05	NA	7.18E-01	NA	4.92E-02
367174	3757740	Residential	3.37E-04	3.37E-06	1.47E-03	NA	2.37E-03	NA	6.39E-05	3.55E-05	2.09E-04	3.48E-05	4.51E-05	NA	5.00E-01	NA	3.41E-02
367291	3757694	Residential	3.68E-04	3.68E-06	1.59E-03	NA	2.57E-03	NA	6.90E-05	3.83E-05	2.29E-04	3.81E-05	5.21E-05	NA	5.42E-01	NA	3.94E-02
367413	3757695	Residential	4.31E-04	4.31E-06	1.84E-03	NA	2.97E-03	NA	7.91E-05	4.39E-05	2.70E-04	4.51E-05	6.69E-05	NA	6.28E-01	NA	5.06E-02
367410	3757736	Residential	4.52E-04	4.52E-06	1.95E-03	NA	3.14E-03	NA	8.26E-05	4.59E-05	2.82E-04	4.70E-05	6.71E-05	NA	6.64E-01	NA	5.05E-02
367518	3757796	Residential	5.75E-04	5.75E-06	2.51E-03	NA	4.07E-03	NA	1.03E-04	5.71E-05	3.56E-04	5.93E-05	7.98E-05	NA	8.61E-01	NA	5.93E-02
367798	3758011	Residential	7.72E-04	7.72E-06	3.47E-03	NA	5.63E-03	NA	1.37E-04	7.61E-05	4.67E-04	7.78E-05	8.71E-05	NA	1.19E+00	NA	6.29E-02
367914	3757962	Residential	8.08E-04	8.08E-06	3.65E-03	NA	5.92E-03	NA	1.45E-04	8.05E-05	4.87E-04	8.12E-05	8.71E-05	NA	1.25E+00	NA	6.27E-02
367905	3757930	Residential	8.19E-04	8.19E-06	3.69E-03	NA	6.00E-03	NA	1.47E-04	8.15E-05	4.94E-04	8.24E-05	8.93E-05	NA	1.27E+00	NA	6.44E-02
368109	3757840	Residential	8.76E-04	8.76E-06	4.00E-03	NA	6.50E-03	NA	1.61E-04	8.97E-05	5.23E-04	8.71E-05	8.14E-05	NA	1.37E+00	NA	5.79E-02
368233	3757790	Residential	8.89E-04	8.89E-06	4.09E-03	NA	6.66E-03	NA	1.68E-04	9.32E-05	5.26E-04	8.77E-05	7.19E-05	NA	1.40E+00	NA	5.05E-02
368309	3757762	Residential	8.87E-04	8.87E-06	4.10E-03	NA	6.68E-03	NA	1.70E-04	9.44E-05	5.23E-04	8.71E-05	6.55E-05	NA	1.40E+00	NA	4.57E-02
368603	3757765	Residential	7.03E-04	7.03E-06	3.18E-03	NA	5.17E-03	NA	1.40E-04	7.17E-05	4.21E-04	7.01E-05	6.26E-05	NA	1.08E+00	NA	4.57E-02
368604	3757719	Residential	7.30E-04	7.30E-06	3.30E-03	NA	5.37E-03	NA	1.44E-04	7.98E-05	4.36E-04	7.27E-05	6.46E-05	NA	1.13E+00	NA	4.72E-02
368770	3757799	Residential	1.31E-03	1.31E-05	6.20E-03	NA	1.01E-02	NA	2.43E-04	1.35E-04	7.63E-04	1.27E-04	7.93E-05	NA	2.13E+00	NA	5.12E-02
369017	3757954	Residential	1.14E-03	1.14E-05	5.33E-03	NA	8.69E-03	NA	2.17E-04	1.21E-04	6.62E-04	1.10E-04	6.86E-05	NA	1.83E+00	NA	4.58E-02
369080	3757864	Residential	1.11E-03	1.11E-05	5.14E-03	NA	8.38E-03	NA	2.16E-04	1.20E-04	6.48E-04	1.08E-04	7.16E-05	NA	1.76E+00	NA	4.94E-02
369224	3757952	Residential	7.60E-04	7.60E-06	3.46E-03	NA	5.63E-03	NA	1.52E-04	8.44E-05	4.51E-04	7.52E-05	6.03E-05	NA	1.18E+00	NA	4.38E-02
369409	3757730	Residential	7.69E-04	7.69E-06	3.49E-03	NA	5.67E-03	NA	1.43E-04	7.93E-05	4.60E-04	7.67E-05	7.37E-05	NA	1.20E+00	NA	5.30E-02
369454	3757776	Residential	7.54E-04	7.54E-06	3.46E-03	NA	5.63E-03	NA	1.35E-04	7.51E-05	4.49E-04	7.48E-05	6.97E-05	NA	1.19E+00	NA	4.89E-02
369265	3757997	Residential	6.47E-04	6.47E-06	2.92E-03	NA	4.75E-03	NA	1.30E-04	7.25E-05	3.87E-04	6.44E-05	5.53E-05	NA	9.97E-01	NA	4.08E-02
369452	3758128	Residential	4.55E-04	4.55E-06	2.06E-03	NA	3.35E-03	NA	8.45E-05	4.69E-05	2.73E-04	4.55E-05	4.45E-05	NA	7.07E-01	NA	3.21E-02
369460	3758394	Residential	3.96E-04	3.96E-06	1.83E-03	NA	2.98E-03	NA	7.28E-05	4.04E-05	2.35E-04	3.91E-05	3.32E-05	NA	6.27E-01	NA	2.32E-02
369853	3758394	Residential	4.73E-04	4.73E-06	2.19E-03	NA	3.57E-03	NA	8.23E-05	4.57E-05	2.80E-04	4.67E-05	4.21E-05	NA	7.54E-01	NA	2.89E-02
369850	3758078	Residential	5.26E-04	5.26E-06	2.39E-03	NA	3.88E-03	NA	9.45E-05	5.25E-05	3.16E-04	5.26E-05	5.38E-05	NA	8.19E-01	NA	3.84E-02
370886	3758089	Residential	6.98E-04	6.98E-06	3.25E-03	NA	5.29E-03	NA	1.28E-04	7.09E-05	4.10E-04	6.84E-05	5.32E-05	NA	1.11E+00	NA	3.62E-02
371193	3757720	Residential	5.70E-04	5.70E-06	2.65E-03	NA	4.32E-03	NA	1.04E-04	5.79E-05	3.35E-04	5.58E-05	4.34E-05	NA	9.10E-01	NA	2.95E-02
371254	3757762	Residential	5.47E-04	5.47E-06	2.55E-03	NA	4.15E-03	NA	1.00E-04	5.56E-05	3.22E-04	5.37E-05	4.18E-05	NA	8.74E-01	NA	2.85E-02
371264	3757783	Residential	5.39E-04	5.39E-06	2.50E-03	NA	4.08E-03	NA	9.89E-05	5.49E-05	3.17E-04	5.29E-05	4.14E-05	NA	8.59E-01	NA	2.83E-02
371372	3757782	Residential	5.29E-04	5.29E-06	2.46E-03	NA	4.01E-03	NA	9.63E-05	5.35E-05	3.11E-04	5.18E-05	4.03E-05	NA	8.45E-01	NA	2.73E-02
371399	3757806	Residential	5.18E-04	5.18E-06	2.41E-03	NA	3.93E-03	NA	9.44E-05	5.24E-05	3.05E-04	5.08E-05	3.96E-05	NA	8.28E-01	NA	2.69E-02
371798	3758080	Residential	4.07E-04	4.07E-06	1.89E-03	NA	3.08E-03	NA	7.41E-05	4.12E-05	2.40E-04	4.00E-05	3.21E-05	NA	6.49E-01	NA	2.19E-02
371908	3757934	Residential	4.36E-04	4.36E-06	2.03E-03	NA	3.31E-03	NA	7.85E-05	4.26E-05	2.56E-04	4.26E-05	3.32E-05	NA	6.98E-01	NA	2.24E-02
371964	3757922	Residential	4.28E-04	4.28E-06	2.00E-03	NA	3.26E-03	NA	7.71E-05	4.29E-05	2.52E-04	4.19E-05	3.27E-05	NA	6.87E-01	NA	2.20E-02
371970	3757842	Residential	4.25E-04	4.25E-06	1.98E-03	NA	3.23E-03	NA	7.68E-05	4.26E-05	2.50E-04	4.17E-05	3.28E-05	NA	6.80E-01	NA	2.22E-02
372023	3757843	Residential	4.15E-04	4.15E-06	1.93E-03	NA	3.14E-03	NA	7.49E-05	4.16E-05	2.44E-04	4.06E-05	3.22E-05	NA	6.63E-01	NA	2.18E-02
370801	3755276	Residential	2.59E-04	2.59E-06	1.16E-03	NA	1.89E-03	NA	4.93E-05	2.74E-05	1.56E-04	2.60E-05	2.60E-05	NA	3.98E-01	NA	1.90E-02

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	COPPER	COPPER	LEAD	LEAD	MANGANESE	MANGANESE	MERCURY	MERCURY	NICKEL	NICKEL	SELENIUM	SELENIUM	SILICON	SILICON	SULFATES
			( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )
CalEPA REL				100		NA		NA		1.8		6		NA		NA	
370667	3755262	Residential	2.43E-04	2.43E-06	1.08E-03	NA	1.75E-03	NA	4.66E-05	2.59E-05	1.48E-04	2.47E-05	2.77E-05	NA	3.68E-01	NA	2.05E-02
370380	3755263	Residential	2.70E-04	2.70E-06	1.20E-03	NA	1.94E-03	NA	4.95E-05	2.75E-05	1.65E-04	2.75E-05	3.28E-05	NA	4.10E-01	NA	2.42E-02
370076	3755265	Residential	3.93E-04	3.93E-06	1.76E-03	NA	2.86E-03	NA	7.12E-05	3.95E-05	2.38E-04	3.96E-05	4.39E-05	NA	6.04E-01	NA	3.19E-02
369498	3755268	Residential	5.55E-04	5.55E-06	2.48E-03	NA	4.02E-03	NA	9.90E-05	5.50E-05	3.37E-04	5.62E-05	6.59E-05	NA	8.50E-01	NA	4.80E-02
369194	3755270	Residential	8.49E-04	8.49E-06	3.87E-03	NA	6.30E-03	NA	1.52E-04	8.45E-05	5.07E-04	8.45E-05	8.27E-05	NA	1.33E+00	NA	5.86E-02
368889	3755272	Residential	1.35E-03	1.35E-05	6.30E-03	NA	1.03E-02	NA	2.46E-04	1.37E-04	7.89E-04	1.31E-04	9.58E-05	NA	2.16E+00	NA	6.41E-02
368569	3755273	Residential	1.75E-03	1.75E-05	8.05E-03	NA	1.31E-02	NA	3.25E-04	1.80E-04	1.04E-03	1.74E-04	1.53E-04	NA	2.76E+00	NA	1.08E-01
368275	3755275	Residential	1.83E-03	1.83E-05	8.48E-03	NA	1.38E-02	NA	3.31E-04	1.84E-04	1.08E-03	1.81E-04	1.55E-04	NA	2.91E+00	NA	1.07E-01
367936	3755213	Residential	1.51E-03	1.51E-05	6.77E-03	NA	1.10E-02	NA	2.65E-04	1.47E-04	9.13E-04	1.52E-04	1.75E-04	NA	2.32E+00	NA	1.26E-01
367539	3757802	School	5.96E-04	5.96E-06	2.61E-03	NA	4.22E-03	NA	1.06E-04	5.89E-05	3.68E-04	6.13E-05	8.19E-05	NA	8.93E-01	NA	6.08E-02
367609	3757677	School	6.01E-04	6.01E-06	2.59E-03	NA	4.19E-03	NA	1.06E-04	5.91E-05	3.75E-04	6.25E-05	9.11E-05	NA	8.87E-01	NA	6.82E-02
367769	3757644	School	7.30E-04	7.30E-06	3.18E-03	NA	5.14E-03	NA	1.29E-04	7.15E-05	4.52E-04	7.54E-05	1.05E-04	NA	1.09E+00	NA	7.79E-02
367775	3757719	School	7.57E-04	7.57E-06	3.33E-03	NA	5.39E-03	NA	1.34E-04	7.44E-05	4.66E-04	7.76E-05	1.01E-04	NA	1.14E+00	NA	7.49E-02
367809	3757835	School	7.97E-04	7.97E-06	3.55E-03	NA	5.77E-03	NA	1.42E-04	7.87E-05	4.85E-04	8.09E-05	9.63E-05	NA	1.22E+00	NA	7.02E-02
367807	3757936	School	7.90E-04	7.90E-06	3.55E-03	NA	5.75E-03	NA	1.40E-04	7.80E-05	4.79E-04	7.98E-05	9.10E-05	NA	1.22E+00	NA	6.59E-02
367775	3757959	School	7.75E-04	7.75E-06	3.47E-03	NA	5.64E-03	NA	1.37E-04	7.63E-05	4.70E-04	7.83E-05	8.98E-05	NA	1.19E+00	NA	6.51E-02
370299	3758078	School	7.00E-04	7.00E-06	3.21E-03	NA	5.22E-03	NA	1.32E-04	7.35E-05	4.16E-04	6.93E-05	5.90E-05	NA	1.10E+00	NA	4.18E-02
370298	3757963	School	8.70E-04	8.70E-06	4.04E-03	NA	6.58E-03	NA	1.61E-04	8.96E-05	5.12E-04	8.54E-05	6.63E-05	NA	1.39E+00	NA	4.56E-02
370382	3757966	School	9.00E-04	9.00E-06	4.20E-03	NA	6.84E-03	NA	1.65E-04	9.17E-05	5.29E-04	8.81E-05	6.64E-05	NA	1.44E+00	NA	4.49E-02
370510	3758027	School	8.59E-04	8.59E-06	4.01E-03	NA	6.53E-03	NA	1.56E-04	8.68E-05	5.03E-04	8.39E-05	6.27E-05	NA	1.38E+00	NA	4.21E-02
370506	3758088	School	8.14E-04	8.14E-06	3.79E-03	NA	6.18E-03	NA	1.49E-04	8.25E-05	4.78E-04	7.96E-05	6.03E-05	NA	1.30E+00	NA	4.08E-02
369787	3755267	School	5.31E-04	5.31E-06	2.40E-03	NA	3.90E-03	NA	9.54E-05	5.30E-05	3.20E-04	5.33E-05	5.65E-05	NA	8.23E-01	NA	4.07E-02

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
CalEPA REL			120		30		NA	NA	NA
370885	3757751	Commercial	3.06E-04	1.56E-03	5.19E-05	3.68E-03	NA	1.35E+00	NA
370907	3757702	Commercial	2.96E-04	1.46E-03	4.86E-05	3.47E-03	NA	1.31E+00	NA
370945	3757670	Commercial	2.83E-04	1.36E-03	4.52E-05	3.24E-03	NA	1.25E+00	NA
371046	3757668	Commercial	2.66E-04	1.34E-03	4.46E-05	3.15E-03	NA	1.13E+00	NA
371046	3757585	Commercial	2.73E-04	1.39E-03	4.64E-05	3.26E-03	NA	1.14E+00	NA
371122	3757584	Commercial	2.65E-04	1.35E-03	4.49E-05	3.16E-03	NA	1.10E+00	NA
372020	3757552	Commercial	1.83E-04	7.27E-04	2.42E-05	1.76E-03	NA	7.28E-01	NA
372002	3757140	Commercial	2.27E-04	1.07E-03	3.58E-05	2.54E-03	NA	9.30E-01	NA
371514	3757136	Commercial	2.57E-04	1.25E-03	4.16E-05	2.97E-03	NA	1.13E+00	NA
371035	3757133	Commercial	3.04E-04	1.51E-03	5.02E-05	3.60E-03	NA	1.40E+00	NA
371034	3757085	Commercial	3.05E-04	1.50E-03	5.01E-05	3.60E-03	NA	1.44E+00	NA
370764	3757087	Commercial	3.55E-04	1.74E-03	5.79E-05	4.16E-03	NA	1.65E+00	NA
370754	3756818	Commercial	3.98E-04	1.62E-03	5.42E-05	3.98E-03	NA	1.75E+00	NA
371031	3756807	Commercial	3.56E-04	1.45E-03	4.85E-05	3.53E-03	NA	1.47E+00	NA
371033	3756780	Commercial	3.58E-04	1.45E-03	4.83E-05	3.51E-03	NA	1.45E+00	NA
371483	3756770	Commercial	2.98E-04	1.15E-03	3.85E-05	2.78E-03	NA	1.12E+00	NA
371817	3756763	Commercial	2.61E-04	9.67E-04	3.22E-05	2.33E-03	NA	9.39E-01	NA
372274	3756753	Commercial	2.19E-04	7.53E-04	2.51E-05	1.83E-03	NA	7.54E-01	NA
372713	3756743	Commercial	1.88E-04	5.90E-04	1.97E-05	1.45E-03	NA	6.22E-01	NA
372703	3756553	Commercial	1.74E-04	3.95E-04	1.32E-05	1.02E-03	NA	5.34E-01	NA
372819	3756549	Commercial	1.66E-04	3.65E-04	1.22E-05	9.50E-04	NA	5.07E-01	NA
372814	3756455	Commercial	1.57E-04	2.83E-04	9.42E-06	7.65E-04	NA	4.60E-01	NA
372797	3756368	Commercial	1.48E-04	2.69E-04	8.98E-06	7.20E-04	NA	4.17E-01	NA
372705	3756372	Commercial	1.53E-04	2.76E-04	9.21E-06	7.42E-04	NA	4.35E-01	NA
372706	3756327	Commercial	1.47E-04	2.66E-04	8.88E-06	7.12E-04	NA	4.09E-01	NA
372927	3756319	Commercial	1.35E-04	2.51E-04	8.36E-06	6.65E-04	NA	3.73E-01	NA
372926	3756245	Commercial	1.26E-04	2.37E-04	7.91E-06	6.22E-04	NA	3.36E-01	NA
373457	3756236	Commercial	1.05E-04	2.05E-04	6.82E-06	5.31E-04	NA	2.77E-01	NA
373448	3755560	Commercial	5.35E-05	2.15E-04	7.17E-06	5.11E-04	NA	1.89E-01	NA
373222	3755569	Commercial	5.69E-05	2.20E-04	7.33E-06	5.25E-04	NA	1.99E-01	NA
373219	3755705	Commercial	6.61E-05	2.42E-04	8.05E-06	5.73E-04	NA	2.07E-01	NA
373135	3755704	Commercial	6.75E-05	2.44E-04	8.14E-06	5.80E-04	NA	2.11E-01	NA
373131	3755567	Commercial	5.85E-05	2.20E-04	7.35E-06	5.28E-04	NA	2.03E-01	NA
373054	3755563	Commercial	5.99E-05	2.20E-04	7.35E-06	5.29E-04	NA	2.06E-01	NA
373046	3755174	Commercial	6.93E-05	2.79E-04	9.30E-06	6.64E-04	NA	2.49E-01	NA
372725	3755177	Commercial	7.72E-05	3.50E-04	1.17E-05	8.23E-04	NA	2.90E-01	NA
372624	3755182	Commercial	7.98E-05	3.72E-04	1.24E-05	8.72E-04	NA	3.03E-01	NA
372238	3755186	Commercial	9.06E-05	4.54E-04	1.51E-05	1.06E-03	NA	3.60E-01	NA
371843	3755189	Commercial	1.02E-04	5.17E-04	1.72E-05	1.21E-03	NA	4.22E-01	NA
371463	3755192	Commercial	1.13E-04	5.45E-04	1.82E-05	1.29E-03	NA	4.78E-01	NA
371049	3755196	Commercial	1.41E-04	5.22E-04	1.74E-05	1.27E-03	NA	5.21E-01	NA
371056	3755349	Commercial	1.38E-04	6.21E-04	2.07E-05	1.48E-03	NA	5.75E-01	NA
371043	3755384	Commercial	1.41E-04	6.40E-04	2.13E-05	1.53E-03	NA	5.88E-01	NA
371042	3755556	Commercial	1.48E-04	7.04E-04	2.35E-05	1.67E-03	NA	6.27E-01	NA
370996	3755560	Commercial	1.52E-04	7.14E-04	2.38E-05	1.70E-03	NA	6.41E-01	NA
371001	3755419	Commercial	1.45E-04	6.59E-04	2.20E-05	1.57E-03	NA	6.06E-01	NA

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
CalEPA REL			120		30		NA	NA	NA
367484	3755199	Residential	1.04E-03	1.49E-03	4.98E-05	3.95E-03	NA	2.11E+00	NA
367301	3755623	Residential	1.30E-03	1.95E-03	6.49E-05	5.05E-03	NA	2.50E+00	NA
367114	3756056	Residential	1.05E-03	1.96E-03	6.55E-05	5.15E-03	NA	2.77E+00	NA
366985	3756358	Residential	1.11E-03	1.77E-03	5.92E-05	4.52E-03	NA	2.09E+00	NA
366853	3756663	Residential	6.79E-04	1.64E-03	5.47E-05	4.03E-03	NA	1.67E+00	NA
366902	3756692	Residential	6.22E-04	1.66E-03	5.52E-05	4.05E-03	NA	1.68E+00	NA
366876	3756760	Residential	5.38E-04	1.64E-03	5.46E-05	3.98E-03	NA	1.61E+00	NA
366813	3756739	Residential	5.74E-04	1.61E-03	5.36E-05	3.92E-03	NA	1.59E+00	NA
366677	3757025	Residential	4.96E-04	1.37E-03	4.58E-05	3.30E-03	NA	1.24E+00	NA
366536	3757322	Residential	4.74E-04	1.17E-03	3.91E-05	2.82E-03	NA	1.05E+00	NA
366437	3757531	Residential	4.38E-04	1.09E-03	3.64E-05	2.61E-03	NA	9.38E-01	NA
366487	3757537	Residential	4.51E-04	1.10E-03	3.65E-05	2.63E-03	NA	9.45E-01	NA
366624	3757468	Residential	4.98E-04	1.17E-03	3.89E-05	2.80E-03	NA	1.02E+00	NA
366644	3757531	Residential	4.89E-04	1.13E-03	3.76E-05	2.71E-03	NA	9.81E-01	NA
366777	3757520	Residential	5.08E-04	1.16E-03	3.87E-05	2.79E-03	NA	1.02E+00	NA
366999	3757642	Residential	4.10E-04	9.76E-04	3.25E-05	2.37E-03	NA	9.27E-01	NA
367174	3757740	Residential	2.84E-04	6.85E-04	2.28E-05	1.72E-03	NA	7.99E-01	NA
367291	3757694	Residential	3.28E-04	7.40E-04	2.47E-05	1.86E-03	NA	8.58E-01	NA
367413	3757695	Residential	4.22E-04	8.55E-04	2.85E-05	2.15E-03	NA	9.72E-01	NA
367410	3757736	Residential	4.21E-04	9.04E-04	3.01E-05	2.25E-03	NA	9.91E-01	NA
367518	3757796	Residential	4.94E-04	1.17E-03	3.90E-05	2.85E-03	NA	1.13E+00	NA
367798	3758011	Residential	5.24E-04	1.62E-03	5.41E-05	3.86E-03	NA	1.38E+00	NA
367914	3757962	Residential	5.23E-04	1.71E-03	5.70E-05	4.06E-03	NA	1.48E+00	NA
367905	3757930	Residential	5.37E-04	1.73E-03	5.77E-05	4.12E-03	NA	1.50E+00	NA
368109	3757840	Residential	4.83E-04	1.88E-03	6.27E-05	4.48E-03	NA	1.69E+00	NA
368233	3757790	Residential	4.21E-04	1.93E-03	6.44E-05	4.62E-03	NA	1.81E+00	NA
368309	3757762	Residential	3.81E-04	1.94E-03	6.46E-05	4.65E-03	NA	1.87E+00	NA
368603	3757765	Residential	3.81E-04	1.50E-03	5.01E-05	3.72E-03	NA	1.73E+00	NA
368604	3757719	Residential	3.93E-04	1.56E-03	5.20E-05	3.85E-03	NA	1.75E+00	NA
368770	3757799	Residential	4.27E-04	2.93E-03	9.78E-05	6.83E-03	NA	2.33E+00	NA
369017	3757954	Residential	3.81E-04	2.53E-03	8.42E-05	5.99E-03	NA	2.29E+00	NA
369080	3757864	Residential	4.11E-04	2.44E-03	8.13E-05	5.88E-03	NA	2.44E+00	NA
369224	3757952	Residential	3.65E-04	1.64E-03	5.46E-05	4.05E-03	NA	1.87E+00	NA
369409	3757730	Residential	4.42E-04	1.64E-03	5.47E-05	3.94E-03	NA	1.54E+00	NA
369454	3757776	Residential	4.07E-04	1.63E-03	5.42E-05	3.82E-03	NA	1.31E+00	NA
369265	3757997	Residential	3.40E-04	1.38E-03	4.61E-05	3.45E-03	NA	1.66E+00	NA
369452	3758128	Residential	2.67E-04	9.70E-04	3.23E-05	2.33E-03	NA	9.15E-01	NA
369460	3758394	Residential	1.93E-04	8.61E-04	2.87E-05	2.03E-03	NA	7.34E-01	NA
369853	3758394	Residential	2.41E-04	1.03E-03	3.43E-05	2.37E-03	NA	7.11E-01	NA
369850	3758078	Residential	3.20E-04	1.12E-03	3.73E-05	2.65E-03	NA	9.49E-01	NA
370886	3758089	Residential	3.02E-04	1.53E-03	5.11E-05	3.59E-03	NA	1.24E+00	NA
371193	3757720	Residential	2.46E-04	1.25E-03	4.17E-05	2.93E-03	NA	1.02E+00	NA
371254	3757762	Residential	2.37E-04	1.20E-03	4.00E-05	2.81E-03	NA	9.73E-01	NA
371264	3757783	Residential	2.36E-04	1.18E-03	3.94E-05	2.77E-03	NA	9.75E-01	NA
371372	3757782	Residential	2.28E-04	1.16E-03	3.87E-05	2.71E-03	NA	9.26E-01	NA
371399	3757806	Residential	2.24E-04	1.14E-03	3.79E-05	2.66E-03	NA	9.08E-01	NA
371798	3758080	Residential	1.83E-04	8.91E-04	2.97E-05	2.09E-03	NA	7.18E-01	NA
371908	3757934	Residential	1.86E-04	9.58E-04	3.19E-05	2.23E-03	NA	7.29E-01	NA
371964	3757922	Residential	1.84E-04	9.42E-04	3.14E-05	2.19E-03	NA	7.16E-01	NA
371970	3757842	Residential	1.85E-04	9.34E-04	3.11E-05	2.17E-03	NA	7.20E-01	NA
372023	3757843	Residential	1.82E-04	9.10E-04	3.03E-05	2.12E-03	NA	7.04E-01	NA
370801	3755276	Residential	1.58E-04	5.48E-04	1.83E-05	1.34E-03	NA	5.72E-01	NA

**Table D-4**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	SULFATES	VANADIUM	VANADIUM	ZINC	ZINC	DIESEL PM	DIESEL PM
			Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
CalEPA REL			120		30		NA	NA	NA
370667	3755262	Residential	1.71E-04	5.05E-04	1.68E-05	1.25E-03	NA	5.68E-01	NA
370380	3755263	Residential	2.01E-04	5.60E-04	1.87E-05	1.36E-03	NA	5.52E-01	NA
370076	3755265	Residential	2.66E-04	8.25E-04	2.75E-05	1.98E-03	NA	7.54E-01	NA
369498	3755268	Residential	4.00E-04	1.16E-03	3.86E-05	2.77E-03	NA	1.03E+00	NA
369194	3755270	Residential	4.89E-04	1.82E-03	6.06E-05	4.29E-03	NA	1.49E+00	NA
368889	3755272	Residential	5.34E-04	2.97E-03	9.92E-05	6.94E-03	NA	2.35E+00	NA
368569	3755273	Residential	8.97E-04	3.79E-03	1.26E-04	9.02E-03	NA	3.39E+00	NA
368275	3755275	Residential	8.89E-04	3.99E-03	1.33E-04	9.34E-03	NA	3.19E+00	NA
367936	3755213	Residential	1.05E-03	3.16E-03	1.05E-04	7.49E-03	NA	2.61E+00	NA
367539	3757802	School	5.06E-04	1.21E-03	4.05E-05	2.95E-03	NA	1.16E+00	NA
367609	3757677	School	5.68E-04	1.20E-03	4.01E-05	2.95E-03	NA	1.19E+00	NA
367769	3757644	School	6.49E-04	1.48E-03	4.92E-05	3.59E-03	NA	1.40E+00	NA
367775	3757719	School	6.24E-04	1.55E-03	5.17E-05	3.74E-03	NA	1.43E+00	NA
367809	3757835	School	5.85E-04	1.66E-03	5.53E-05	3.97E-03	NA	1.46E+00	NA
367807	3757936	School	5.49E-04	1.66E-03	5.53E-05	3.95E-03	NA	1.42E+00	NA
367775	3757959	School	5.42E-04	1.62E-03	5.41E-05	3.87E-03	NA	1.39E+00	NA
370299	3758078	School	3.48E-04	1.51E-03	5.05E-05	3.64E-03	NA	1.45E+00	NA
370298	3757963	School	3.80E-04	1.91E-03	6.35E-05	4.50E-03	NA	1.63E+00	NA
370382	3757966	School	3.74E-04	1.98E-03	6.60E-05	4.64E-03	NA	1.61E+00	NA
370510	3758027	School	3.51E-04	1.89E-03	6.31E-05	4.41E-03	NA	1.48E+00	NA
370506	3758088	School	3.40E-04	1.79E-03	5.97E-05	4.18E-03	NA	1.43E+00	NA
369787	3755267	School	3.39E-04	1.12E-03	3.75E-05	2.68E-03	NA	9.72E-01	NA

**Table D-5  
Summary of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors  
LAX Crossfield Taxiway Project  
Construction TAC Concentrations**

Receptor Location Type	1-Hour ROG Conc. (µg/m <sup>3</sup> )	1-Hour TOG Conc. (µg/m <sup>3</sup> )	acetaldehyde (µg/m <sup>3</sup> )	acrolein (µg/m <sup>3</sup> )	benzene (µg/m <sup>3</sup> )	butadiene, 1,3- (µg/m <sup>3</sup> )	ethylbenzene (µg/m <sup>3</sup> )	ethylene glycol (µg/m <sup>3</sup> )	formaldehyde (µg/m <sup>3</sup> )	hexane, n- (µg/m <sup>3</sup> )	isopropyl alcohol (µg/m <sup>3</sup> )	methyl alcohol (µg/m <sup>3</sup> )	methyl ethyl ketone (µg/m <sup>3</sup> )	methyl t-butyl ether (µg/m <sup>3</sup> )	naphthalene (µg/m <sup>3</sup> )	propylene (µg/m <sup>3</sup> )	styrene (µg/m <sup>3</sup> )	toluene (µg/m <sup>3</sup> )	xylylene, m- (µg/m <sup>3</sup> )	xylylene, o- (µg/m <sup>3</sup> )	xylylene, p- (µg/m <sup>3</sup> )	
Residential																						
Maximum Offsite Concentration-->	3.38E+01	3.40E+01	9.45E-01	2.82E-04	2.62E-01	2.55E-02	2.16E-01	2.25E-02	1.89E+00	5.50E-01	5.45E-02	3.53E-02	2.10E-01	4.05E-03	2.32E-01	3.40E-01	7.71E-03	1.83E+00	1.02E-01	5.29E-02	1.94E-02	
Average Offsite Concentration-->	1.35E+01	1.36E+01	3.89E-01	1.16E-04	1.08E-01	1.05E-02	8.51E-02	8.79E-03	7.80E-01	2.15E-01	2.13E-02	1.39E-02	8.62E-02	1.67E-03	9.09E-02	1.40E-01	3.18E-03	7.17E-01	4.18E-02	2.16E-02	7.84E-03	
Minimum Offsite Concentration-->	5.31E+00	5.35E+00	1.53E-01	4.56E-05	4.25E-02	4.13E-03	3.34E-02	3.41E-03	3.06E-01	8.38E-02	8.27E-03	5.43E-03	3.39E-02	6.56E-04	3.54E-02	5.50E-02	1.25E-03	2.80E-01	1.65E-02	8.50E-03	3.09E-03	
Commercial																						
Maximum Offsite Concentration-->	1.69E+01	1.70E+01	4.92E-01	1.47E-04	1.37E-01	1.33E-02	1.06E-01	1.09E-02	9.87E-01	2.68E-01	2.65E-02	1.73E-02	1.09E-01	2.11E-03	1.13E-01	1.77E-01	4.02E-03	8.94E-01	5.28E-02	2.73E-02	9.86E-03	
Average Offsite Concentration-->	6.90E+00	6.95E+00	2.03E-01	6.04E-05	5.63E-02	5.48E-03	4.34E-02	4.46E-03	4.06E-01	1.09E-01	1.08E-02	7.08E-03	4.48E-02	8.69E-04	4.62E-02	7.29E-02	1.65E-03	3.65E-01	2.17E-02	1.12E-02	4.04E-03	
Minimum Offsite Concentration-->	1.77E+00	1.79E+00	5.27E-02	1.57E-05	1.46E-02	1.43E-03	1.11E-02	1.14E-03	1.06E-01	2.80E-02	2.76E-03	1.81E-03	1.16E-02	2.26E-04	1.18E-02	1.90E-02	4.30E-04	9.34E-02	5.63E-03	2.91E-03	1.04E-03	
School																						
Maximum Offsite Concentration-->	1.57E+01	1.58E+01	4.58E-01	1.37E-04	1.27E-01	1.24E-02	9.93E-02	1.02E-02	9.18E-01	2.51E-01	2.48E-02	1.62E-02	1.01E-01	1.97E-03	1.06E-01	1.65E-01	3.74E-03	8.36E-01	4.91E-02	2.54E-02	9.19E-03	
Average Offsite Concentration-->	1.36E+01	1.37E+01	3.87E-01	1.15E-04	1.07E-01	1.05E-02	8.62E-02	8.94E-03	7.75E-01	2.19E-01	2.17E-02	1.41E-02	8.59E-02	1.66E-03	9.24E-02	1.39E-01	3.16E-03	7.28E-01	4.17E-02	2.16E-02	7.86E-03	
Minimum Offsite Concentration-->	9.71E+00	9.77E+00	2.72E-01	8.12E-05	7.57E-02	7.37E-03	6.20E-02	6.46E-03	5.46E-01	1.58E-01	1.57E-02	1.02E-02	6.06E-02	1.17E-03	6.67E-02	9.80E-02	2.22E-03	5.24E-01	2.95E-02	1.52E-02	5.58E-03	
CalEPA REL	NA	NA	NA	0.19	1300	NA	NA	NA	94	NA	3200	28000	13000	NA	NA	NA	21000	37000	22000	22000	22000	
Residential																						
Offsite Maximum Acute Hazard-->	NA	NA	NA	1.48E-03	2.02E-04	NA	NA	NA	2.01E-02	NA	1.70E-05	1.26E-06	1.62E-05	NA	NA	NA	3.67E-07	4.93E-05	4.65E-06	2.40E-06	8.82E-07	
Offsite Average Acute Hazard-->	NA	NA	NA	6.11E-04	8.32E-05	NA	NA	NA	8.30E-03	NA	6.66E-06	4.97E-07	6.63E-06	NA	NA	NA	1.51E-07	1.94E-05	1.90E-06	9.83E-07	3.56E-07	
Offsite Minimum Acute Hazard-->	NA	NA	NA	2.40E-04	3.27E-05	NA	NA	NA	3.26E-03	NA	2.59E-06	1.94E-07	2.61E-06	NA	NA	NA	5.94E-08	7.57E-06	7.48E-07	3.87E-07	1.40E-07	
Commercial																						
Offsite Maximum Acute Hazard-->	NA	NA	NA	7.73E-04	1.05E-04	NA	NA	NA	1.05E-02	NA	8.28E-06	6.19E-07	8.38E-06	NA	NA	NA	1.91E-07	2.42E-05	2.40E-06	1.24E-06	4.48E-07	
Offsite Average Acute Hazard-->	NA	NA	NA	3.18E-04	4.33E-05	NA	NA	NA	4.32E-03	NA	3.38E-06	2.53E-07	3.45E-06	NA	NA	NA	7.87E-08	9.87E-06	9.86E-07	5.10E-07	1.84E-07	
Offsite Minimum Acute Hazard-->	NA	NA	NA	8.26E-05	1.13E-05	NA	NA	NA	1.12E-03	NA	8.62E-07	6.48E-08	8.95E-07	NA	NA	NA	2.05E-08	2.53E-06	2.56E-07	1.32E-07	4.75E-08	
School																						
Offsite Maximum Acute Hazard-->	NA	NA	NA	7.19E-04	9.79E-05	NA	NA	NA	9.76E-03	NA	7.74E-06	5.79E-07	7.80E-06	NA	NA	NA	1.78E-07	2.26E-05	2.23E-06	1.15E-06	4.18E-07	
Offsite Average Acute Hazard-->	NA	NA	NA	6.08E-04	8.27E-05	NA	NA	NA	8.25E-03	NA	6.77E-06	5.04E-07	6.61E-06	NA	NA	NA	1.50E-07	1.97E-05	1.90E-06	9.80E-07	3.57E-07	
Offsite Minimum Acute Hazard-->	NA	NA	NA	4.28E-04	5.82E-05	NA	NA	NA	5.81E-03	NA	4.89E-06	3.63E-07	4.66E-06	NA	NA	NA	1.06E-07	1.42E-05	1.34E-06	6.92E-07	2.54E-07	



**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour ROG	1-Hour TOG	Acetaldehyde	Acetaldehyde	acrolein	acrolein	benzene	benzene	butadiene, 1,3-	butadiene, 1,3-	ethylbenzene	ethylbenzene	ethylene glycol	ethylene glycol	formaldehyde
			Conc. (µg/m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )
		CalEPA REL	NA	NA		NA	0.19	1300		NA		NA		NA		NA	
370885	3757751	Commercial	1.30E+01	1.31E+01	3.78E-01	NA	1.13E-04	5.93E-04	1.05E-01	8.08E-05	1.02E-02	NA	8.20E-02	NA	8.44E-03	NA	7.58E-01
370907	3757702	Commercial	1.26E+01	1.27E+01	3.67E-01	NA	1.09E-04	5.76E-04	1.02E-01	7.84E-05	9.93E-03	NA	7.96E-02	NA	8.20E-03	NA	7.35E-01
370945	3757670	Commercial	1.20E+01	1.21E+01	3.50E-01	NA	1.04E-04	5.50E-04	9.73E-02	7.49E-05	9.47E-03	NA	7.60E-02	NA	7.83E-03	NA	7.02E-01
371046	3757668	Commercial	1.09E+01	1.10E+01	3.17E-01	NA	9.44E-05	4.97E-04	8.80E-02	6.77E-05	8.56E-03	NA	6.87E-02	NA	7.08E-03	NA	6.35E-01
371046	3757585	Commercial	1.09E+01	1.10E+01	3.21E-01	NA	9.56E-05	5.03E-04	8.91E-02	6.85E-05	8.67E-03	NA	6.89E-02	NA	7.08E-03	NA	6.42E-01
371122	3757584	Commercial	1.06E+01	1.06E+01	3.09E-01	NA	9.23E-05	4.86E-04	8.59E-02	6.61E-05	8.36E-03	NA	6.65E-02	NA	6.83E-03	NA	6.20E-01
372020	3757552	Commercial	6.98E+00	7.03E+00	2.04E-01	NA	6.08E-05	3.20E-04	5.66E-02	4.36E-05	5.51E-03	NA	4.40E-02	NA	4.52E-03	NA	4.09E-01
372002	3757140	Commercial	8.85E+00	8.91E+00	2.60E-01	NA	7.76E-05	4.09E-04	7.23E-02	5.56E-05	7.03E-03	NA	5.56E-02	NA	5.71E-03	NA	5.21E-01
371514	3757136	Commercial	1.08E+01	1.09E+01	3.17E-01	NA	9.46E-05	4.98E-04	8.81E-02	6.77E-05	8.57E-03	NA	6.83E-02	NA	7.02E-03	NA	6.35E-01
371035	3757133	Commercial	1.35E+01	1.36E+01	3.92E-01	NA	1.17E-04	6.16E-04	1.09E-01	8.38E-05	1.06E-02	NA	8.53E-02	NA	8.79E-03	NA	7.86E-01
371034	3757085	Commercial	1.39E+01	1.40E+01	4.03E-01	NA	1.20E-04	6.33E-04	1.12E-01	8.61E-05	1.09E-02	NA	8.75E-02	NA	9.01E-03	NA	8.08E-01
370764	3757087	Commercial	1.60E+01	1.61E+01	4.63E-01	NA	1.38E-04	7.28E-04	1.29E-01	9.90E-05	1.25E-02	NA	1.01E-01	NA	1.02E-02	NA	9.29E-01
370754	3756818	Commercial	1.69E+01	1.70E+01	4.92E-01	NA	1.47E-04	7.73E-04	1.37E-01	1.05E-04	1.33E-02	NA	1.06E-01	NA	1.09E-02	NA	9.87E-01
371031	3756807	Commercial	1.40E+01	1.41E+01	4.12E-01	NA	1.23E-04	6.47E-04	1.14E-01	8.80E-05	1.11E-02	NA	8.83E-02	NA	9.07E-03	NA	8.25E-01
371033	3756780	Commercial	1.39E+01	1.40E+01	4.08E-01	NA	1.22E-04	6.40E-04	1.13E-01	8.71E-05	1.10E-02	NA	8.72E-02	NA	8.95E-03	NA	8.17E-01
371483	3756770	Commercial	1.06E+01	1.07E+01	3.13E-01	NA	9.34E-05	4.92E-04	8.70E-02	6.70E-05	8.47E-03	NA	6.65E-02	NA	6.81E-03	NA	6.28E-01
371817	3756763	Commercial	8.84E+00	8.90E+00	2.63E-01	NA	7.84E-05	4.12E-04	7.30E-02	5.61E-05	7.10E-03	NA	5.54E-02	NA	5.67E-03	NA	5.26E-01
372274	3756753	Commercial	7.06E+00	7.11E+00	2.11E-01	NA	6.29E-05	3.31E-04	5.85E-02	4.50E-05	5.70E-03	NA	4.42E-02	NA	4.42E-03	NA	4.22E-01
372713	3756743	Commercial	5.79E+00	5.83E+00	1.74E-01	NA	5.18E-05	2.73E-04	4.82E-02	3.71E-05	4.69E-03	NA	3.62E-02	NA	3.69E-03	NA	3.48E-01
372703	3756553	Commercial	4.93E+00	4.96E+00	1.49E-01	NA	4.44E-05	2.34E-04	4.14E-02	3.18E-05	4.03E-03	NA	3.07E-02	NA	3.12E-03	NA	2.98E-01
372819	3756549	Commercial	4.68E+00	4.71E+00	1.42E-01	NA	4.22E-05	2.22E-04	3.93E-02	3.02E-05	3.83E-03	NA	2.92E-02	NA	2.92E-03	NA	2.84E-01
372814	3756455	Commercial	4.23E+00	4.26E+00	1.28E-01	NA	3.83E-05	2.02E-04	3.57E-02	2.75E-05	3.47E-03	NA	2.63E-02	NA	2.67E-03	NA	2.57E-01
372797	3756368	Commercial	3.82E+00	3.84E+00	1.17E-01	NA	3.48E-05	1.83E-04	3.24E-02	2.49E-05	3.15E-03	NA	2.37E-02	NA	2.40E-03	NA	2.34E-01
372705	3756372	Commercial	3.98E+00	4.01E+00	1.21E-01	NA	3.62E-05	1.90E-04	3.37E-02	2.59E-05	3.28E-03	NA	2.47E-02	NA	2.50E-03	NA	2.43E-01
372706	3756327	Commercial	3.74E+00	3.77E+00	1.14E-01	NA	3.41E-05	1.80E-04	3.18E-02	2.44E-05	3.09E-03	NA	2.32E-02	NA	2.35E-03	NA	2.29E-01
372927	3756319	Commercial	3.40E+00	3.43E+00	1.04E-01	NA	3.11E-05	1.64E-04	2.89E-02	2.23E-05	2.82E-03	NA	2.11E-02	NA	2.14E-03	NA	2.09E-01
372926	3756245	Commercial	3.06E+00	3.08E+00	9.40E-02	NA	2.80E-05	1.48E-04	2.61E-02	2.01E-05	2.54E-03	NA	1.89E-02	NA	1.91E-03	NA	1.88E-01
373457	3756236	Commercial	2.51E+00	2.53E+00	7.75E-02	NA	2.31E-05	1.22E-04	2.15E-02	1.66E-05	2.10E-03	NA	1.56E-02	NA	1.57E-03	NA	1.55E-01
373448	3755560	Commercial	1.77E+00	1.79E+00	5.27E-02	NA	1.57E-05	8.28E-05	1.46E-02	1.13E-05	1.43E-03	NA	1.11E-02	NA	1.14E-03	NA	1.06E-01
373222	3755569	Commercial	1.86E+00	1.88E+00	5.54E-02	NA	1.65E-05	8.71E-05	1.54E-02	1.18E-05	1.50E-03	NA	1.17E-02	NA	1.20E-03	NA	1.11E-01
373219	3755705	Commercial	1.95E+00	1.97E+00	5.76E-02	NA	1.72E-05	9.05E-05	1.60E-02	1.23E-05	1.56E-03	NA	1.23E-02	NA	1.26E-03	NA	1.15E-01
373135	3755704	Commercial	1.99E+00	2.01E+00	5.88E-02	NA	1.76E-05	9.24E-05	1.63E-02	1.26E-05	1.59E-03	NA	1.25E-02	NA	1.28E-03	NA	1.18E-01
373131	3755567	Commercial	1.90E+00	1.91E+00	5.64E-02	NA	1.68E-05	8.86E-05	1.57E-02	1.21E-05	1.53E-03	NA	1.19E-02	NA	1.22E-03	NA	1.13E-01
373054	3755563	Commercial	1.97E+00	1.98E+00	5.72E-02	NA	1.71E-05	8.98E-05	1.59E-02	1.22E-05	1.55E-03	NA	1.24E-02	NA	1.28E-03	NA	1.15E-01
373046	3755174	Commercial	2.43E+00	2.45E+00	6.99E-02	NA	2.08E-05	1.10E-04	1.94E-02	1.49E-05	1.89E-03	NA	1.54E-02	NA	1.59E-03	NA	1.40E-01
372725	3755177	Commercial	2.82E+00	2.84E+00	8.12E-02	NA	2.42E-05	1.28E-04	2.26E-02	1.74E-05	2.20E-03	NA	1.79E-02	NA	1.85E-03	NA	1.63E-01
372624	3755182	Commercial	2.95E+00	2.97E+00	8.50E-02	NA	2.54E-05	1.33E-04	2.36E-02	1.82E-05	2.30E-03	NA	1.87E-02	NA	1.93E-03	NA	1.70E-01
372238	3755186	Commercial	3.49E+00	3.51E+00	1.01E-01	NA	3.01E-05	1.58E-04	2.80E-02	2.15E-05	2.73E-03	NA	2.21E-02	NA	2.28E-03	NA	2.02E-01
371843	3755189	Commercial	4.06E+00	4.09E+00	1.18E-01	NA	3.51E-05	1.85E-04	3.27E-02	2.52E-05	3.18E-03	NA	2.57E-02	NA	2.65E-03	NA	2.36E-01
371463	3755192	Commercial	4.57E+00	4.60E+00	1.33E-01	NA	3.97E-05	2.09E-04	3.70E-02	2.85E-05	3.60E-03	NA	2.88E-02	NA	2.97E-03	NA	2.67E-01
371049	3755196	Commercial	4.93E+00	4.97E+00	1.45E-01	NA	4.33E-05	2.28E-04	4.03E-02	3.10E-05	3.92E-03	NA	3.10E-02	NA	3.18E-03	NA	2.91E-01
371056	3755349	Commercial	5.51E+00	5.55E+00	1.60E-01	NA	4.78E-05	2.52E-04	4.45E-02	3.42E-05	4.33E-03	NA	3.48E-02	NA	3.59E-03	NA	3.21E-01
371043	3755384	Commercial	5.65E+00	5.69E+00	1.64E-01	NA	4.89E-05	2.57E-04	4.55E-02	3.50E-05	4.43E-03	NA	3.57E-02	NA	3.68E-03	NA	3.28E-01
371042	3755556	Commercial	6.10E+00	6.14E+00	1.75E-01	NA	5.23E-05	2.75E-04	4.87E-02	3.75E-05	4.74E-03	NA	3.87E-02	NA	4.00E-03	NA	3.51E-01
370996	3755560	Commercial	6.24E+00	6.28E+00	1.79E-01	NA	5.35E-05	2.81E-04	4.98E-02	3.83E-05	4.85E-03	NA	3.95E-02	NA	4.09E-03	NA	3.59E-01
371001	3755419	Commercial	5.84E+00	5.88E+00	1.69E-01	NA	5.04E-05	2.65E-04	4.70E-02	3.61E-05	4.57E-03	NA	3.69E-02	NA	3.81E-03	NA	3.39E-01
367484	3755199	Residential	1.74E+01	1.75E+01	5.85E-01	NA	1.75E-04	9.19E-04	1.63E-01	1.25E-04	1.58E-02	NA	1.04E-01	NA	1.01E-02	NA	1.17E+00
367301	3755623	Residential	1.97E+01	1.98E+01	7.01E-01	NA	2.09E-04	1.10E-03	1.95E-01	1.50E-04	1.89E-02	NA	1.15E-01	NA	1.09E-02	NA	1.40E+00
367114	3756056	Residential	2.15E+01	2.17E+01	7.76E-01	NA	2.32E-04	1.22E-03	2.16E-01	1.66E-04	2.10E-02	NA	1.25E-01	NA	1.18E-02	NA	1.56E+00
366985	3756358	Residential	1.83E+01	1.85E+01	5.82E-01	NA	1.74E-04	9.14E-04	1.62E-01	1.24E-04	1.57E-02	NA	1.12E-01	NA	1.12E-02	NA	1.17E+00
366853	3756663	Residential	1.59E+01	1.60E+01	4.64E-01	NA	1.38E-04	7.29E-04	1.29E-01	9.91E-05	1.25E-02	NA	1.00E-01	NA	1.03E-02	NA	9.29E-01
366902	3756692	Residential	1.61E+01	1.62E+01	4.65E-01	NA	1.39E-04	7.31E-04	1.29E-01	9.94E-05	1.26E-02	NA	1.02E-01	NA	1.05E-02	NA	9.32E-01

**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour ROG	1-Hour TOG	Acetaldehyde	Acetaldehyde	acrolein	acrolein	benzene	benzene	butadiene, 1,3-	butadiene, 1,3-	ethylbenzene	ethylbenzene	ethylene glycol	ethylene glycol	formaldehyde
			Conc. (µg/m³)	Conc. (µg/m³)	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)	Acute Hazard	(µg/m³)
		CalEPA REL	NA	NA		NA		0.19		1300		NA		NA		NA	
366876	3756760	Residential	1.56E+01	1.57E+01	4.46E-01	NA	1.33E-04	7.00E-04	1.24E-01	9.52E-05	1.21E-02	NA	9.92E-02	NA	1.03E-02	NA	8.93E-01
366813	3756739	Residential	1.53E+01	1.54E+01	4.41E-01	NA	1.32E-04	6.93E-04	1.22E-01	9.42E-05	1.19E-02	NA	9.72E-02	NA	1.00E-02	NA	8.83E-01
366677	3757025	Residential	1.22E+01	1.23E+01	3.42E-01	NA	1.02E-04	5.38E-04	9.51E-02	7.32E-05	9.26E-03	NA	7.78E-02	NA	8.10E-03	NA	6.86E-01
366536	3757322	Residential	1.02E+01	1.03E+01	2.92E-01	NA	8.72E-05	4.59E-04	8.11E-02	6.24E-05	7.90E-03	NA	6.50E-02	NA	6.74E-03	NA	5.85E-01
366437	3757531	Residential	9.23E+00	9.29E+00	2.61E-01	NA	7.79E-05	4.10E-04	7.25E-02	5.58E-05	7.06E-03	NA	5.88E-02	NA	6.11E-03	NA	5.23E-01
366487	3757537	Residential	9.32E+00	9.38E+00	2.63E-01	NA	7.85E-05	4.13E-04	7.30E-02	5.62E-05	7.11E-03	NA	5.94E-02	NA	6.18E-03	NA	5.27E-01
366624	3757468	Residential	1.00E+01	1.01E+01	2.82E-01	NA	8.43E-05	4.44E-04	7.85E-02	6.04E-05	7.64E-03	NA	6.39E-02	NA	6.65E-03	NA	5.66E-01
366644	3757531	Residential	9.72E+00	9.79E+00	2.73E-01	NA	8.15E-05	4.29E-04	7.59E-02	5.84E-05	7.39E-03	NA	6.20E-02	NA	6.46E-03	NA	5.47E-01
366777	3757520	Residential	1.01E+01	1.02E+01	2.83E-01	NA	8.46E-05	4.45E-04	7.87E-02	6.06E-05	7.66E-03	NA	6.45E-02	NA	6.73E-03	NA	5.68E-01
366999	3757642	Residential	9.29E+00	9.35E+00	2.60E-01	NA	7.76E-05	4.08E-04	7.22E-02	5.55E-05	7.03E-03	NA	5.94E-02	NA	6.19E-03	NA	5.21E-01
367174	3757740	Residential	8.03E+00	8.08E+00	2.25E-01	NA	6.70E-05	3.53E-04	6.24E-02	4.80E-05	6.07E-03	NA	5.13E-02	NA	5.35E-03	NA	4.50E-01
367291	3757694	Residential	8.54E+00	8.60E+00	2.39E-01	NA	7.13E-05	3.75E-04	6.64E-02	5.11E-05	6.46E-03	NA	5.46E-02	NA	5.69E-03	NA	4.79E-01
367413	3757695	Residential	9.30E+00	9.36E+00	2.68E-01	NA	7.99E-05	4.21E-04	7.43E-02	5.72E-05	7.24E-03	NA	5.89E-02	NA	6.09E-03	NA	5.36E-01
367410	3757736	Residential	9.52E+00	9.59E+00	2.73E-01	NA	8.16E-05	4.29E-04	7.59E-02	5.84E-05	7.38E-03	NA	6.04E-02	NA	6.25E-03	NA	5.47E-01
367518	3757796	Residential	1.11E+01	1.12E+01	3.13E-01	NA	9.36E-05	4.93E-04	8.71E-02	6.70E-05	8.48E-03	NA	7.06E-02	NA	7.34E-03	NA	6.28E-01
367798	3758011	Residential	1.38E+01	1.39E+01	3.85E-01	NA	1.15E-04	6.05E-04	1.07E-01	8.23E-05	1.04E-02	NA	8.79E-02	NA	9.17E-03	NA	7.72E-01
367914	3757962	Residential	1.48E+01	1.49E+01	4.13E-01	NA	1.23E-04	6.49E-04	1.15E-01	8.83E-05	1.12E-02	NA	9.44E-02	NA	9.84E-03	NA	8.28E-01
367905	3757930	Residential	1.50E+01	1.51E+01	4.18E-01	NA	1.25E-04	6.57E-04	1.16E-01	8.94E-05	1.13E-02	NA	9.55E-02	NA	9.96E-03	NA	8.38E-01
368109	3757840	Residential	1.70E+01	1.71E+01	4.75E-01	NA	1.42E-04	7.46E-04	1.32E-01	1.01E-04	1.28E-02	NA	1.09E-01	NA	1.13E-02	NA	9.52E-01
368233	3757790	Residential	1.81E+01	1.83E+01	5.07E-01	NA	1.51E-04	7.97E-04	1.41E-01	1.08E-04	1.37E-02	NA	1.16E-01	NA	1.21E-02	NA	1.02E+00
368309	3757762	Residential	1.88E+01	1.89E+01	5.25E-01	NA	1.57E-04	8.25E-04	1.46E-01	1.12E-04	1.42E-02	NA	1.20E-01	NA	1.25E-02	NA	1.05E+00
368603	3757765	Residential	1.71E+01	1.72E+01	4.81E-01	NA	1.44E-04	7.56E-04	1.34E-01	1.03E-04	1.30E-02	NA	1.09E-01	NA	1.14E-02	NA	9.63E-01
368604	3757719	Residential	1.76E+01	1.77E+01	4.92E-01	NA	1.47E-04	7.73E-04	1.37E-01	1.05E-04	1.33E-02	NA	1.12E-01	NA	1.17E-02	NA	9.87E-01
368770	3757799	Residential	2.33E+01	2.34E+01	6.51E-01	NA	1.95E-04	1.02E-03	1.81E-01	1.39E-04	1.76E-02	NA	1.49E-01	NA	1.55E-02	NA	1.30E+00
369017	3757954	Residential	2.31E+01	2.33E+01	6.47E-01	NA	1.93E-04	1.02E-03	1.80E-01	1.38E-04	1.75E-02	NA	1.48E-01	NA	1.54E-02	NA	1.30E+00
369080	3757864	Residential	2.46E+01	2.48E+01	6.89E-01	NA	2.06E-04	1.08E-03	1.91E-01	1.47E-04	1.86E-02	NA	1.57E-01	NA	1.64E-02	NA	1.38E+00
369224	3757952	Residential	1.89E+01	1.90E+01	5.29E-01	NA	1.58E-04	8.30E-04	1.47E-01	1.13E-04	1.43E-02	NA	1.21E-01	NA	1.26E-02	NA	1.06E+00
369409	3757730	Residential	1.56E+01	1.57E+01	4.36E-01	NA	1.30E-04	6.83E-04	1.21E-01	9.31E-05	1.18E-02	NA	9.94E-02	NA	1.04E-02	NA	8.73E-01
369454	3757776	Residential	1.29E+01	1.30E+01	3.66E-01	NA	1.09E-04	5.76E-04	1.02E-01	7.83E-05	9.91E-03	NA	8.22E-02	NA	8.54E-03	NA	7.34E-01
369265	3757997	Residential	1.68E+01	1.69E+01	4.69E-01	NA	1.40E-04	7.36E-04	1.30E-01	1.00E-04	1.27E-02	NA	1.07E-01	NA	1.12E-02	NA	9.40E-01
369452	3758128	Residential	9.22E+00	9.28E+00	2.58E-01	NA	7.69E-05	4.05E-04	7.17E-02	5.52E-05	6.98E-03	NA	5.89E-02	NA	6.14E-03	NA	5.17E-01
369460	3758394	Residential	7.40E+00	7.45E+00	2.07E-01	NA	6.17E-05	3.25E-04	5.75E-02	4.43E-05	5.60E-03	NA	4.72E-02	NA	4.93E-03	NA	4.15E-01
369853	3758394	Residential	7.01E+00	7.06E+00	2.00E-01	NA	5.96E-05	3.14E-04	5.55E-02	4.27E-05	5.40E-03	NA	4.45E-02	NA	4.62E-03	NA	4.00E-01
369850	3758078	Residential	8.79E+00	8.86E+00	2.64E-01	NA	7.88E-05	4.15E-04	7.33E-02	5.64E-05	7.13E-03	NA	5.50E-02	NA	5.60E-03	NA	5.28E-01
370886	3758089	Residential	1.19E+01	1.19E+01	3.48E-01	NA	1.04E-04	5.46E-04	9.65E-02	7.43E-05	9.40E-03	NA	7.46E-02	NA	7.67E-03	NA	6.96E-01
371193	3757720	Residential	9.71E+00	9.78E+00	2.84E-01	NA	8.48E-05	4.46E-04	7.90E-02	6.08E-05	7.69E-03	NA	6.12E-02	NA	6.29E-03	NA	5.70E-01
371254	3757762	Residential	9.35E+00	9.42E+00	2.73E-01	NA	8.13E-05	4.28E-04	7.57E-02	5.83E-05	7.37E-03	NA	5.90E-02	NA	6.07E-03	NA	5.46E-01
371264	3757783	Residential	9.38E+00	9.44E+00	2.73E-01	NA	8.15E-05	4.29E-04	7.59E-02	5.84E-05	7.39E-03	NA	5.92E-02	NA	6.09E-03	NA	5.48E-01
371372	3757782	Residential	8.81E+00	8.87E+00	2.59E-01	NA	7.73E-05	4.07E-04	7.20E-02	5.53E-05	7.00E-03	NA	5.54E-02	NA	5.69E-03	NA	5.19E-01
371399	3757806	Residential	8.64E+00	8.70E+00	2.54E-01	NA	7.58E-05	3.99E-04	7.06E-02	5.43E-05	6.87E-03	NA	5.43E-02	NA	5.58E-03	NA	5.09E-01
371798	3758080	Residential	6.88E+00	6.93E+00	2.01E-01	NA	6.00E-05	3.16E-04	5.60E-02	4.30E-05	5.45E-03	NA	4.34E-02	NA	4.46E-03	NA	4.04E-01
371908	3757934	Residential	6.91E+00	6.96E+00	2.04E-01	NA	6.08E-05	3.20E-04	5.66E-02	4.36E-05	5.51E-03	NA	4.34E-02	NA	4.45E-03	NA	4.09E-01
371964	3757922	Residential	6.78E+00	6.83E+00	2.00E-01	NA	5.97E-05	3.14E-04	5.56E-02	4.28E-05	5.41E-03	NA	4.26E-02	NA	4.37E-03	NA	4.01E-01
371970	3757842	Residential	6.83E+00	6.88E+00	2.01E-01	NA	6.01E-05	3.16E-04	5.60E-02	4.30E-05	5.45E-03	NA	4.29E-02	NA	4.40E-03	NA	4.04E-01
372023	3757843	Residential	6.67E+00	6.72E+00	1.97E-01	NA	5.87E-05	3.09E-04	5.47E-02	4.21E-05	5.32E-03	NA	4.19E-02	NA	4.30E-03	NA	3.94E-01
370801	3755276	Residential	5.40E+00	5.44E+00	1.59E-01	NA	4.75E-05	2.50E-04	4.42E-02	3.40E-05	4.30E-03	NA	3.40E-02	NA	3.48E-03	NA	3.19E-01
370667	3755262	Residential	5.32E+00	5.36E+00	1.58E-01	NA	4.71E-05	2.48E-04	4.38E-02	3.37E-05	4.27E-03	NA	3.34E-02	NA	3.41E-03	NA	3.16E-01
370380	3755263	Residential	5.31E+00	5.35E+00	1.53E-01	NA	4.56E-05	2.40E-04	4.25E-02	3.27E-05	4.13E-03	NA	3.36E-02	NA	3.48E-03	NA	3.06E-01
370076	3755265	Residential	7.58E+00	7.63E+00	2.12E-01	NA	6.33E-05	3.33E-04	5.90E-02	4.54E-05	5.74E-03	NA	4.84E-02	NA	5.04E-03	NA	4.25E-01
369498	3755268	Residential	1.02E+01	1.02E+01	2.86E-01	NA	8.54E-05	4.49E-04	7.94E-02	6.11E-05	7.73E-03	NA	6.47E-02	NA	6.74E-03	NA	5.73E-01
369194	3755270	Residential	1.50E+01	1.51E+01	4.19E-01	NA	1.25E-04	6.58E-04	1.17E-01	8.96E-05	1.13E-02	NA	9.58E-02	NA	9.99E-03	NA	8.41E-01
368889	3755272	Residential	2.35E+01	2.37E+01	6.58E-01	NA	1.96E-04	1.03E-03	1.83E-01	1.41E-04	1.78E-02	NA	1.50E-01	NA	1.57E-02	NA	1.32E+00

**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	1-Hour ROG	1-Hour TOG	Acetaldehyde	Acetaldehyde	acrolein	acrolein	benzene	benzene	butadiene, 1,3-	butadiene, 1,3-	ethylbenzene	ethylbenzene	ethylene glycol	ethylene glycol	formaldehyde
			Conc. (µg/m <sup>3</sup> )	Conc. (µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )	Acute Hazard	(µg/m <sup>3</sup> )
		CalEPA REL	NA	NA				0.19		1300		NA		NA		NA	
368569	3755273	Residential	3.38E+01	3.40E+01	9.45E-01	NA	2.82E-04	1.48E-03	2.62E-01	2.02E-04	2.55E-02	NA	2.16E-01	NA	2.25E-02	NA	1.89E+00
368275	3755275	Residential	3.16E+01	3.18E+01	8.84E-01	NA	2.64E-04	1.39E-03	2.46E-01	1.89E-04	2.39E-02	NA	2.02E-01	NA	2.11E-02	NA	1.77E+00
367936	3755213	Residential	2.55E+01	2.57E+01	7.22E-01	NA	2.16E-04	1.14E-03	2.01E-01	1.54E-04	1.95E-02	NA	1.62E-01	NA	1.69E-02	NA	1.45E+00
367539	3757802	School	1.14E+01	1.14E+01	3.21E-01	NA	9.58E-05	5.04E-04	8.91E-02	6.86E-05	8.67E-03	NA	7.24E-02	NA	7.53E-03	NA	6.43E-01
367609	3757677	School	1.17E+01	1.17E+01	3.29E-01	NA	9.82E-05	5.17E-04	9.14E-02	7.03E-05	8.89E-03	NA	7.43E-02	NA	7.73E-03	NA	6.59E-01
367769	3757644	School	1.38E+01	1.39E+01	3.88E-01	NA	1.16E-04	6.09E-04	1.08E-01	8.28E-05	1.05E-02	NA	8.82E-02	NA	9.20E-03	NA	7.77E-01
367775	3757719	School	1.41E+01	1.42E+01	3.96E-01	NA	1.18E-04	6.22E-04	1.10E-01	8.46E-05	1.07E-02	NA	9.02E-02	NA	9.41E-03	NA	7.94E-01
367809	3757835	School	1.46E+01	1.47E+01	4.08E-01	NA	1.22E-04	6.40E-04	1.13E-01	8.71E-05	1.10E-02	NA	9.30E-02	NA	9.70E-03	NA	8.17E-01
367807	3757936	School	1.42E+01	1.43E+01	3.98E-01	NA	1.19E-04	6.25E-04	1.10E-01	8.50E-05	1.08E-02	NA	9.08E-02	NA	9.47E-03	NA	7.97E-01
367775	3757959	School	1.39E+01	1.39E+01	3.88E-01	NA	1.16E-04	6.10E-04	1.08E-01	8.29E-05	1.05E-02	NA	8.85E-02	NA	9.23E-03	NA	7.77E-01
370299	3758078	School	1.39E+01	1.40E+01	4.06E-01	NA	1.21E-04	6.37E-04	1.13E-01	8.67E-05	1.10E-02	NA	8.73E-02	NA	8.97E-03	NA	8.13E-01
370298	3757963	School	1.57E+01	1.58E+01	4.58E-01	NA	1.37E-04	7.19E-04	1.27E-01	9.79E-05	1.24E-02	NA	9.93E-02	NA	1.02E-02	NA	9.18E-01
370382	3757966	School	1.55E+01	1.56E+01	4.50E-01	NA	1.34E-04	7.07E-04	1.25E-01	9.63E-05	1.22E-02	NA	9.79E-02	NA	1.01E-02	NA	9.03E-01
370510	3758027	School	1.43E+01	1.44E+01	4.16E-01	NA	1.24E-04	6.53E-04	1.16E-01	8.89E-05	1.12E-02	NA	9.04E-02	NA	9.31E-03	NA	8.33E-01
370506	3758088	School	1.38E+01	1.39E+01	4.01E-01	NA	1.20E-04	6.30E-04	1.11E-01	8.57E-05	1.08E-02	NA	8.69E-02	NA	8.94E-03	NA	8.03E-01
369787	3755267	School	9.71E+00	9.77E+00	2.72E-01	NA	8.12E-05	4.28E-04	7.57E-02	5.82E-05	7.37E-03	NA	6.20E-02	NA	6.46E-03	NA	5.46E-01

**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	formaldehyde	hexane, n-	hexane, n-	isopropyl alcohol	isopropyl alcohol	methyl alcohol	methyl alcohol	methyl ethyl ketone	methyl ethyl ketone	methyl t-butyl ether	methyl t-butyl ether	naphthalene	naphthalene	propylene	propylene
			Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
		CalEPA REL	94		NA		3200		28000		13000		NA		NA		NA
370885	3757751	Commercial	8.06E-03	2.07E-01	NA	2.05E-02	6.39E-06	1.34E-02	4.78E-07	8.37E-02	6.44E-06	1.62E-03	NA	8.74E-02	NA	1.36E-01	NA
370907	3757702	Commercial	7.82E-03	2.01E-01	NA	1.99E-02	6.21E-06	1.30E-02	4.64E-07	8.13E-02	6.25E-06	1.57E-03	NA	8.49E-02	NA	1.32E-01	NA
370945	3757670	Commercial	7.47E-03	1.92E-01	NA	1.90E-02	5.93E-06	1.24E-02	4.43E-07	7.76E-02	5.97E-06	1.50E-03	NA	8.11E-02	NA	1.26E-01	NA
371046	3757668	Commercial	6.75E-03	1.73E-01	NA	1.71E-02	5.36E-06	1.12E-02	4.00E-07	7.01E-02	5.39E-06	1.36E-03	NA	7.32E-02	NA	1.14E-01	NA
371046	3757585	Commercial	6.83E-03	1.74E-01	NA	1.72E-02	5.37E-06	1.12E-02	4.02E-07	7.09E-02	5.45E-06	1.38E-03	NA	7.34E-02	NA	1.15E-01	NA
371122	3757584	Commercial	6.59E-03	1.67E-01	NA	1.65E-02	5.17E-06	1.08E-02	3.87E-07	6.84E-02	5.26E-06	1.33E-03	NA	7.07E-02	NA	1.11E-01	NA
372020	3757552	Commercial	4.35E-03	1.11E-01	NA	1.10E-02	3.43E-06	7.18E-03	2.56E-07	4.51E-02	3.47E-06	8.75E-04	NA	4.69E-02	NA	7.34E-02	NA
372002	3757140	Commercial	5.55E-03	1.40E-01	NA	1.38E-02	4.33E-06	9.07E-03	3.24E-07	5.75E-02	4.42E-06	1.12E-03	NA	5.92E-02	NA	9.36E-02	NA
371514	3757136	Commercial	6.76E-03	1.72E-01	NA	1.70E-02	5.32E-06	1.11E-02	3.98E-07	7.01E-02	5.39E-06	1.36E-03	NA	7.27E-02	NA	1.14E-01	NA
371035	3757133	Commercial	8.36E-03	2.15E-01	NA	2.13E-02	6.66E-06	1.39E-02	4.97E-07	8.69E-02	6.68E-06	1.68E-03	NA	9.10E-02	NA	1.41E-01	NA
371034	3757085	Commercial	8.59E-03	2.21E-01	NA	2.18E-02	6.83E-06	1.43E-02	5.10E-07	8.92E-02	6.86E-06	1.73E-03	NA	9.33E-02	NA	1.45E-01	NA
370764	3757087	Commercial	9.88E-03	2.56E-01	NA	2.53E-02	7.91E-06	1.65E-02	5.90E-07	1.03E-01	7.90E-06	1.99E-03	NA	1.08E-01	NA	1.67E-01	NA
370754	3756818	Commercial	1.05E-02	2.68E-01	NA	2.65E-02	8.28E-06	1.73E-02	6.19E-07	1.09E-01	8.38E-06	2.11E-03	NA	1.13E-01	NA	1.77E-01	NA
371031	3756807	Commercial	8.78E-03	2.22E-01	NA	2.20E-02	6.87E-06	1.44E-02	5.14E-07	9.11E-02	7.01E-06	1.77E-03	NA	9.39E-02	NA	1.48E-01	NA
371033	3756780	Commercial	8.69E-03	2.20E-01	NA	2.17E-02	6.78E-06	1.42E-02	5.08E-07	9.01E-02	6.93E-06	1.75E-03	NA	9.27E-02	NA	1.47E-01	NA
371483	3756770	Commercial	6.68E-03	1.67E-01	NA	1.65E-02	5.16E-06	1.08E-02	3.87E-07	6.92E-02	5.32E-06	1.34E-03	NA	7.06E-02	NA	1.13E-01	NA
371817	3756763	Commercial	5.60E-03	1.39E-01	NA	1.37E-02	4.29E-06	9.03E-03	3.22E-07	5.80E-02	4.46E-06	1.13E-03	NA	5.88E-02	NA	9.46E-02	NA
372274	3756753	Commercial	4.49E-03	1.11E-01	NA	1.09E-02	3.42E-06	7.19E-03	2.57E-07	4.65E-02	3.57E-06	9.04E-04	NA	4.68E-02	NA	7.58E-02	NA
372713	3756743	Commercial	3.70E-03	9.07E-02	NA	8.95E-03	2.80E-06	5.89E-03	2.10E-07	3.83E-02	2.94E-06	7.44E-04	NA	3.83E-02	NA	6.25E-02	NA
372703	3756553	Commercial	3.17E-03	7.68E-02	NA	7.57E-03	2.37E-06	4.99E-03	1.78E-07	3.28E-02	2.52E-06	6.39E-04	NA	3.24E-02	NA	5.36E-02	NA
372819	3756549	Commercial	3.02E-03	7.29E-02	NA	7.18E-03	2.24E-06	4.74E-03	1.69E-07	3.12E-02	2.40E-06	6.07E-04	NA	3.08E-02	NA	5.09E-02	NA
372814	3756455	Commercial	2.74E-03	6.57E-02	NA	6.47E-03	2.02E-06	4.27E-03	1.53E-07	2.83E-02	2.17E-06	5.51E-04	NA	2.77E-02	NA	4.62E-02	NA
372797	3756368	Commercial	2.48E-03	5.91E-02	NA	5.82E-03	1.82E-06	3.85E-03	1.38E-07	2.56E-02	1.97E-06	5.00E-04	NA	2.50E-02	NA	4.19E-02	NA
372705	3756372	Commercial	2.59E-03	6.16E-02	NA	6.07E-03	1.90E-06	4.01E-03	1.43E-07	2.67E-02	2.05E-06	5.20E-04	NA	2.60E-02	NA	4.37E-02	NA
372706	3756327	Commercial	2.44E-03	5.78E-02	NA	5.69E-03	1.78E-06	3.77E-03	1.35E-07	2.51E-02	1.93E-06	4.91E-04	NA	2.44E-02	NA	4.12E-02	NA
372927	3756319	Commercial	5.26E-03	1.22E-01	NA	5.18E-03	1.62E-06	3.43E-03	1.22E-07	2.29E-02	1.76E-06	4.47E-04	NA	2.22E-02	NA	3.75E-02	NA
372926	3756245	Commercial	2.00E-03	4.71E-02	NA	4.63E-03	1.45E-06	3.07E-03	1.10E-07	2.06E-02	1.59E-06	4.03E-04	NA	1.99E-02	NA	3.38E-02	NA
373457	3756236	Commercial	1.65E-03	3.87E-02	NA	3.81E-03	1.19E-06	2.53E-03	9.02E-08	1.70E-02	1.31E-06	3.32E-04	NA	1.64E-02	NA	2.79E-02	NA
373448	3755560	Commercial	1.12E-03	2.80E-02	NA	2.76E-03	8.62E-07	1.81E-03	6.48E-08	1.16E-02	8.95E-07	2.26E-04	NA	1.18E-02	NA	1.90E-02	NA
373222	3755569	Commercial	1.18E-03	2.94E-02	NA	2.90E-03	9.06E-07	1.90E-03	6.80E-08	1.22E-02	9.41E-07	2.38E-04	NA	1.24E-02	NA	1.99E-02	NA
373219	3755705	Commercial	1.23E-03	3.09E-02	NA	3.05E-03	9.53E-07	2.00E-03	7.15E-08	1.27E-02	9.79E-07	2.47E-04	NA	1.30E-02	NA	2.07E-02	NA
373135	3755704	Commercial	1.25E-03	3.15E-02	NA	3.11E-03	9.73E-07	2.04E-03	7.29E-08	1.30E-02	1.00E-06	2.52E-04	NA	1.33E-02	NA	2.12E-02	NA
373131	3755567	Commercial	1.20E-03	2.99E-02	NA	2.95E-03	9.22E-07	1.94E-03	6.93E-08	1.25E-02	9.58E-07	2.42E-04	NA	1.26E-02	NA	2.03E-02	NA
373054	3755563	Commercial	1.22E-03	3.14E-02	NA	3.10E-03	9.69E-07	2.03E-03	7.24E-08	1.27E-02	9.75E-07	2.45E-04	NA	1.32E-02	NA	2.06E-02	NA
373046	3755174	Commercial	1.49E-03	3.90E-02	NA	3.86E-03	1.21E-06	2.51E-03	8.98E-08	1.55E-02	1.19E-06	3.00E-04	NA	1.65E-02	NA	2.52E-02	NA
372725	3755177	Commercial	1.73E-03	4.52E-02	NA	4.47E-03	1.40E-06	2.92E-03	1.04E-07	1.80E-02	1.39E-06	3.48E-04	NA	1.91E-02	NA	2.92E-02	NA
372624	3755182	Commercial	1.81E-03	4.73E-02	NA	4.68E-03	1.46E-06	3.05E-03	1.09E-07	1.88E-02	1.45E-06	3.65E-04	NA	2.00E-02	NA	3.06E-02	NA
372238	3755186	Commercial	2.15E-03	5.59E-02	NA	5.53E-03	1.73E-06	3.61E-03	1.29E-07	2.23E-02	1.72E-06	4.32E-04	NA	2.36E-02	NA	3.63E-02	NA
371843	3755189	Commercial	2.51E-03	6.49E-02	NA	6.42E-03	2.01E-06	4.19E-03	1.50E-07	2.61E-02	2.01E-06	5.05E-04	NA	2.74E-02	NA	4.24E-02	NA
371463	3755192	Commercial	2.84E-03	7.28E-02	NA	7.19E-03	2.25E-06	4.71E-03	1.68E-07	2.95E-02	2.27E-06	5.71E-04	NA	3.07E-02	NA	4.79E-02	NA
371049	3755196	Commercial	3.09E-03	7.81E-02	NA	7.72E-03	2.41E-06	5.06E-03	1.81E-07	3.21E-02	2.47E-06	6.22E-04	NA	3.30E-02	NA	5.22E-02	NA
371056	3755349	Commercial	3.42E-03	8.79E-02	NA	8.69E-03	2.72E-06	5.68E-03	2.03E-07	3.55E-02	2.73E-06	6.87E-04	NA	3.71E-02	NA	5.77E-02	NA
371043	3755384	Commercial	3.49E-03	9.02E-02	NA	8.92E-03	2.79E-06	5.83E-03	2.08E-07	3.63E-02	2.79E-06	7.03E-04	NA	3.81E-02	NA	5.90E-02	NA
371042	3755556	Commercial	3.74E-03	9.79E-02	NA	9.69E-03	3.03E-06	6.32E-03	2.26E-07	3.89E-02	2.99E-06	7.52E-04	NA	4.14E-02	NA	6.31E-02	NA
370996	3755560	Commercial	3.82E-03	1.00E-01	NA	9.91E-03	3.10E-06	6.46E-03	2.31E-07	3.98E-02	3.06E-06	7.69E-04	NA	4.23E-02	NA	6.45E-02	NA
371001	3755419	Commercial	3.60E-03	9.33E-02	NA	9.22E-03	2.88E-06	6.02E-03	2.15E-07	3.75E-02	2.88E-06	7.25E-04	NA	6.09E-02	NA	6.99E-02	NA
367484	3755199	Residential	1.25E-02	2.52E-01	NA	2.46E-02	7.68E-06	1.67E-02	5.97E-07	1.27E-01	9.76E-06	2.51E-03	NA	1.07E-01	NA	2.11E-01	NA
367301	3755623	Residential	1.49E-02	2.73E-01	NA	2.65E-02	8.27E-06	1.84E-02	6.56E-07	1.51E-01	1.16E-05	3.00E-03	NA	1.16E-01	NA	2.52E-01	NA
367114	3756056	Residential	1.65E-02	2.95E-01	NA	2.86E-02	8.94E-06	1.99E-02	7.12E-07	1.67E-01	1.28E-05	3.33E-03	NA	1.15E-01	NA	2.79E-01	NA
366985	3756358	Residential	1.24E-02	2.77E-01	NA	2.72E-02	8.50E-06	1.82E-02	6.50E-07	1.27E-01	9.78E-06	2.50E-03	NA	1.17E-01	NA	2.09E-01	NA
366853	3756663	Residential	9.89E-03	2.53E-01	NA	2.50E-02	7.81E-06	1.63E-02	5.84E-07	1.03E-01	7.89E-06	1.99E-03	NA	1.07E-01	NA	1.67E-01	NA
366902	3756692	Residential	9.92E-03	2.58E-01	NA	2.56E-02	7.99E-06	1.67E-02	5.96E-07	1.03E-01	7.94E-06	2.00E-03	NA	1.09E-01	NA	1.67E-01	NA



**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	formaldehyde	hexane, n-	hexane, n-	isopropyl alcohol	isopropyl alcohol	methyl alcohol	methyl alcohol	methyl ethyl ketone	methyl ethyl ketone	methyl t-butyl ether	methyl t-butyl ether	naphthalene	naphthalene	propylene	propylene		
			Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
		CalEPA REL	94		NA		3200		28000		13000		NA		NA		NA		NA
368569	3755273	Residential	2.01E-02	5.50E-01	NA	5.45E-02	1.70E-05	3.53E-02	1.26E-06	2.10E-01	1.62E-05	4.05E-03	NA	2.32E-01	NA	3.40E-01	NA	NA	NA
368275	3755275	Residential	1.88E-02	5.15E-01	NA	5.11E-02	1.60E-05	3.31E-02	1.18E-06	1.97E-01	1.51E-05	3.79E-03	NA	2.17E-01	NA	3.18E-01	NA	NA	NA
367936	3755213	Residential	1.54E-02	4.12E-01	NA	4.09E-02	1.28E-05	2.66E-02	9.48E-07	1.61E-01	1.24E-05	3.10E-03	NA	1.74E-01	NA	2.60E-01	NA	NA	NA
367539	3757802	School	6.84E-03	1.84E-01	NA	1.83E-02	5.70E-06	1.19E-02	4.23E-07	7.13E-02	5.49E-06	1.38E-03	NA	7.78E-02	NA	1.15E-01	NA	NA	NA
367609	3757677	School	7.01E-03	1.89E-01	NA	1.87E-02	5.85E-06	1.22E-02	4.34E-07	7.32E-02	5.63E-06	1.41E-03	NA	7.98E-02	NA	1.18E-01	NA	NA	NA
367769	3757644	School	8.26E-03	2.25E-01	NA	2.23E-02	6.97E-06	1.45E-02	5.16E-07	8.63E-02	6.64E-06	1.66E-03	NA	9.49E-02	NA	1.39E-01	NA	NA	NA
367775	3757719	School	8.44E-03	2.30E-01	NA	2.28E-02	7.13E-06	1.48E-02	5.28E-07	8.82E-02	6.78E-06	1.70E-03	NA	9.71E-02	NA	1.43E-01	NA	NA	NA
367809	3757835	School	8.69E-03	2.37E-01	NA	2.35E-02	7.35E-06	1.52E-02	5.44E-07	9.08E-02	6.98E-06	1.75E-03	NA	1.00E-01	NA	1.47E-01	NA	NA	NA
367807	3757936	School	8.48E-03	2.31E-01	NA	2.29E-02	7.17E-06	1.49E-02	5.31E-07	8.86E-02	6.81E-06	1.71E-03	NA	9.77E-02	NA	1.43E-01	NA	NA	NA
367775	3757959	School	8.27E-03	2.26E-01	NA	2.24E-02	6.99E-06	1.45E-02	5.18E-07	8.64E-02	6.65E-06	1.67E-03	NA	9.53E-02	NA	1.40E-01	NA	NA	NA
370299	3758078	School	8.65E-03	2.20E-01	NA	2.17E-02	6.80E-06	1.42E-02	5.09E-07	8.97E-02	6.90E-06	1.74E-03	NA	9.29E-02	NA	1.46E-01	NA	NA	NA
370298	3757963	School	9.76E-03	2.51E-01	NA	2.48E-02	7.74E-06	1.62E-02	5.79E-07	1.01E-01	7.80E-06	1.97E-03	NA	1.06E-01	NA	1.65E-01	NA	NA	NA
370382	3757966	School	9.60E-03	2.47E-01	NA	2.44E-02	7.64E-06	1.60E-02	5.71E-07	9.97E-02	7.67E-06	1.93E-03	NA	1.04E-01	NA	1.62E-01	NA	NA	NA
370510	3758027	School	8.86E-03	2.28E-01	NA	2.26E-02	7.05E-06	1.48E-02	5.27E-07	9.21E-02	7.08E-06	1.78E-03	NA	9.64E-02	NA	1.50E-01	NA	NA	NA
370506	3758088	School	8.55E-03	2.19E-01	NA	2.17E-02	6.77E-06	1.42E-02	5.06E-07	8.87E-02	6.83E-06	1.72E-03	NA	9.26E-02	NA	1.44E-01	NA	NA	NA
369787	3755267	School	5.81E-03	1.58E-01	NA	1.57E-02	4.89E-06	1.02E-02	3.63E-07	6.06E-02	4.66E-06	1.17E-03	NA	6.67E-02	NA	9.80E-02	NA	NA	NA

**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	styrene	styrene	toluene	toluene	xylene, m-	xylene, m-	xylene, o-	xylene, o-	xylene, p-	xylene, p-	Total Xylenes	Total Xylenes
			( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
		CalEPA REL		21000		37000		22000		22000		22000		22000
370885	3757751	Commercial	3.09E-03	1.47E-07	6.90E-01	1.86E-05	4.06E-02	1.84E-06	2.10E-02	9.53E-07	7.58E-03	3.45E-07	6.91E-02	3.14E-06
370907	3757702	Commercial	3.00E-03	1.43E-07	6.70E-01	1.81E-05	3.94E-02	1.79E-06	2.04E-02	9.26E-07	7.37E-03	3.35E-07	6.71E-02	3.05E-06
370945	3757670	Commercial	2.86E-03	1.36E-07	6.40E-01	1.73E-05	3.76E-02	1.71E-06	1.94E-02	8.84E-07	7.03E-03	3.20E-07	6.41E-02	2.91E-06
371046	3757668	Commercial	2.59E-03	1.23E-07	5.78E-01	1.56E-05	3.40E-02	1.54E-06	1.76E-02	7.99E-07	6.35E-03	2.89E-07	5.79E-02	2.63E-06
371046	3757585	Commercial	2.62E-03	1.25E-07	5.80E-01	1.57E-05	3.43E-02	1.56E-06	1.78E-02	8.07E-07	6.41E-03	2.91E-07	5.85E-02	2.66E-06
371122	3757584	Commercial	2.52E-03	1.20E-07	5.59E-01	1.51E-05	3.31E-02	1.51E-06	1.71E-02	7.79E-07	6.18E-03	2.81E-07	5.64E-02	2.57E-06
372020	3757552	Commercial	1.66E-03	7.92E-08	3.70E-01	1.00E-05	2.19E-02	9.93E-07	1.13E-02	5.14E-07	4.08E-03	1.85E-07	3.72E-02	1.69E-06
372002	3757140	Commercial	2.12E-03	1.01E-07	4.68E-01	1.26E-05	2.78E-02	1.27E-06	1.44E-02	6.55E-07	5.19E-03	2.36E-07	4.74E-02	2.16E-06
371514	3757136	Commercial	2.59E-03	1.23E-07	5.75E-01	1.55E-05	3.40E-02	1.54E-06	1.76E-02	7.98E-07	6.34E-03	2.88E-07	5.79E-02	2.63E-06
371035	3757133	Commercial	3.20E-03	1.52E-07	7.18E-01	1.94E-05	4.21E-02	1.91E-06	2.18E-02	9.90E-07	7.88E-03	3.58E-07	7.18E-02	3.26E-06
371034	3757085	Commercial	3.29E-03	1.57E-07	7.37E-01	1.99E-05	4.32E-02	1.97E-06	2.24E-02	1.02E-06	8.09E-03	3.68E-07	7.37E-02	3.35E-06
370764	3757087	Commercial	3.78E-03	1.80E-07	8.53E-01	2.30E-05	4.98E-02	2.26E-06	2.57E-02	1.17E-06	9.33E-03	4.24E-07	8.49E-02	3.86E-06
370754	3756818	Commercial	4.02E-03	1.91E-07	8.94E-01	2.42E-05	5.28E-02	2.40E-06	2.73E-02	1.24E-06	9.86E-03	4.48E-07	8.99E-02	4.09E-06
371031	3756807	Commercial	3.36E-03	1.60E-07	7.42E-01	2.01E-05	4.41E-02	2.00E-06	2.28E-02	1.04E-06	8.22E-03	3.74E-07	7.51E-02	3.42E-06
371033	3756780	Commercial	3.33E-03	1.58E-07	7.33E-01	1.98E-05	4.36E-02	1.98E-06	2.26E-02	1.03E-06	8.13E-03	3.69E-07	7.43E-02	3.38E-06
371483	3756770	Commercial	2.56E-03	1.22E-07	5.58E-01	1.51E-05	3.35E-02	1.52E-06	1.73E-02	7.87E-07	6.22E-03	2.83E-07	5.70E-02	2.59E-06
371817	3756763	Commercial	2.14E-03	1.02E-07	4.65E-01	1.26E-05	2.80E-02	1.27E-06	1.45E-02	6.60E-07	5.21E-03	2.37E-07	4.78E-02	2.17E-06
372274	3756753	Commercial	1.72E-03	8.19E-08	3.71E-01	1.00E-05	2.25E-02	1.02E-06	1.16E-02	5.29E-07	4.16E-03	1.89E-07	3.83E-02	1.74E-06
372713	3756743	Commercial	1.42E-03	6.75E-08	3.03E-01	8.20E-06	1.85E-02	8.41E-07	9.57E-03	4.35E-07	3.42E-03	1.56E-07	3.15E-02	1.43E-06
372703	3756553	Commercial	1.22E-03	5.79E-08	2.57E-01	6.95E-06	1.58E-02	7.20E-07	8.20E-03	3.73E-07	2.92E-03	1.33E-07	2.69E-02	1.22E-06
372819	3756549	Commercial	1.16E-03	5.50E-08	2.44E-01	6.60E-06	1.50E-02	6.84E-07	7.79E-03	3.54E-07	2.78E-03	1.26E-07	2.56E-02	1.16E-06
372814	3756455	Commercial	1.05E-03	4.99E-08	2.20E-01	5.95E-06	1.36E-02	6.20E-07	7.06E-03	3.21E-07	2.51E-03	1.14E-07	2.32E-02	1.06E-06
372797	3756368	Commercial	9.51E-04	4.53E-08	1.98E-01	5.36E-06	1.24E-02	5.62E-07	6.40E-03	2.91E-07	2.27E-03	1.03E-07	2.10E-02	9.56E-07
372705	3756372	Commercial	9.91E-04	4.72E-08	2.07E-01	5.58E-06	1.29E-02	5.85E-07	6.76E-03	3.03E-07	2.37E-03	1.08E-07	2.19E-02	9.96E-07
372706	3756327	Commercial	9.34E-04	4.45E-08	1.94E-01	5.24E-06	1.21E-02	5.51E-07	6.28E-03	2.85E-07	2.23E-03	1.01E-07	2.06E-02	9.38E-07
372927	3756319	Commercial	8.50E-04	4.05E-08	1.76E-01	4.77E-06	1.10E-02	5.02E-07	5.72E-03	2.60E-07	2.03E-03	9.22E-08	1.88E-02	8.54E-07
372926	3756245	Commercial	7.67E-04	3.65E-08	1.58E-01	4.27E-06	9.95E-03	4.52E-07	5.16E-03	2.34E-07	1.83E-03	8.30E-08	1.69E-02	7.70E-07
373457	3756236	Commercial	6.32E-04	3.01E-08	1.30E-01	3.51E-06	8.20E-03	3.73E-07	4.25E-03	1.93E-07	1.50E-03	6.83E-08	1.39E-02	6.34E-07
373448	3755560	Commercial	4.30E-04	2.05E-08	9.34E-02	2.53E-06	5.63E-03	2.56E-07	2.91E-03	1.32E-07	1.04E-03	4.75E-08	9.58E-03	4.36E-07
373222	3755569	Commercial	4.52E-04	2.15E-08	9.81E-02	2.65E-06	5.92E-03	2.69E-07	3.06E-03	1.39E-07	1.10E-03	4.99E-08	1.01E-02	4.58E-07
373219	3755705	Commercial	4.70E-04	2.24E-08	1.03E-01	2.79E-06	6.16E-03	2.80E-07	3.19E-03	1.45E-07	1.15E-03	5.21E-08	1.05E-02	4.77E-07
373135	3755704	Commercial	4.80E-04	2.29E-08	1.05E-01	2.85E-06	6.29E-03	2.86E-07	3.25E-03	1.48E-07	1.17E-03	5.32E-08	1.07E-02	4.87E-07
373131	3755567	Commercial	4.61E-04	2.19E-08	9.99E-02	2.70E-06	6.02E-03	2.74E-07	3.12E-03	1.42E-07	1.12E-03	5.08E-08	1.03E-02	4.66E-07
373054	3755563	Commercial	4.67E-04	2.22E-08	1.05E-01	2.83E-06	6.14E-03	2.79E-07	3.18E-03	1.44E-07	1.15E-03	5.22E-08	1.05E-02	4.76E-07
373046	3755174	Commercial	5.70E-04	2.72E-08	1.30E-01	3.51E-06	7.52E-03	3.42E-07	3.89E-03	1.77E-07	1.41E-03	6.42E-08	1.28E-02	5.83E-07
372725	3755177	Commercial	6.63E-04	3.16E-08	1.51E-01	4.07E-06	8.74E-03	3.97E-07	4.52E-03	2.05E-07	1.64E-03	7.45E-08	1.49E-02	6.77E-07
372624	3755182	Commercial	6.94E-04	3.30E-08	1.57E-01	4.26E-06	9.14E-03	4.16E-07	4.73E-03	2.15E-07	1.72E-03	7.80E-08	1.56E-02	7.08E-07
372238	3755186	Commercial	8.23E-04	3.92E-08	1.86E-01	5.03E-06	1.08E-02	4.92E-07	5.60E-03	2.55E-07	2.03E-03	9.23E-08	1.85E-02	8.39E-07
371843	3755189	Commercial	9.61E-04	4.58E-08	2.16E-01	5.84E-06	1.26E-02	5.75E-07	6.54E-03	2.97E-07	2.37E-03	1.08E-07	2.15E-02	9.80E-07
371463	3755192	Commercial	1.09E-03	5.17E-08	2.43E-01	6.56E-06	1.43E-02	6.49E-07	7.38E-03	3.36E-07	2.67E-03	1.21E-07	2.43E-02	1.11E-06
371049	3755196	Commercial	1.18E-03	5.64E-08	2.61E-01	7.05E-06	1.55E-02	7.06E-07	8.03E-03	3.65E-07	2.89E-03	1.31E-07	2.64E-02	1.20E-06
371056	3755349	Commercial	1.31E-03	6.23E-08	2.93E-01	7.92E-06	1.72E-02	7.82E-07	8.89E-03	4.04E-07	3.22E-03	1.46E-07	2.93E-02	1.33E-06
371043	3755384	Commercial	1.34E-03	6.37E-08	3.01E-01	8.13E-06	1.76E-02	8.00E-07	9.10E-03	4.14E-07	3.30E-03	1.50E-07	3.00E-02	1.36E-06
371042	3755556	Commercial	1.43E-03	6.81E-08	3.26E-01	8.81E-06	1.89E-02	8.58E-07	9.75E-03	4.43E-07	3.54E-03	1.61E-07	3.22E-02	1.46E-06
370996	3755560	Commercial	1.46E-03	6.97E-08	3.33E-01	9.01E-06	1.93E-02	8.77E-07	9.97E-03	4.53E-07	3.62E-03	1.65E-07	3.29E-02	1.49E-06
371001	3755419	Commercial	1.38E-03	6.57E-08	3.11E-01	8.40E-06	1.82E-02	8.26E-07	9.39E-03	4.27E-07	3.40E-03	1.55E-07	3.10E-02	1.41E-06
367484	3755199	Residential	4.78E-03	2.27E-07	8.57E-01	2.32E-05	6.07E-02	2.76E-06	3.15E-02	1.43E-06	1.08E-02	4.91E-07	1.03E-01	4.68E-06
367301	3755623	Residential	5.72E-03	2.72E-07	9.38E-01	2.53E-05	7.17E-02	3.26E-06	3.74E-02	1.70E-06	1.25E-02	5.70E-07	1.22E-01	5.53E-06
367114	3756056	Residential	6.33E-03	3.02E-07	1.02E+00	2.75E-05	7.93E-02	3.60E-06	4.13E-02	1.88E-06	1.38E-02	6.27E-07	1.34E-01	6.11E-06
366985	3756358	Residential	4.75E-03	2.26E-07	9.35E-01	2.53E-05	6.11E-02	2.78E-06	3.17E-02	1.44E-06	1.11E-02	5.05E-07	1.04E-01	4.72E-06
366853	3756663	Residential	3.79E-03	1.80E-07	8.43E-01	2.28E-05	4.97E-02	2.26E-06	2.57E-02	1.17E-06	9.29E-03	4.22E-07	8.47E-02	3.85E-06
366902	3756692	Residential	3.80E-03	1.81E-07	8.60E-01	2.33E-05	5.00E-02	2.27E-06	2.59E-02	1.18E-06	9.38E-03	4.27E-07	8.53E-02	3.88E-06

**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	styrene		toluene		xylene, m-		xylene, o-		xylene, p-		Total Xylenes	
			( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
		CalEPA REL		21000		37000		22000		22000		22000		22000
366876	3756760	Residential	3.64E-03	1.73E-07	8.38E-01	2.26E-05	4.81E-02	2.18E-06	2.48E-02	1.13E-06	9.05E-03	4.11E-07	8.19E-02	3.72E-06
366813	3756739	Residential	3.60E-03	1.71E-07	8.19E-01	2.21E-05	4.74E-02	2.16E-06	2.45E-02	1.11E-06	8.91E-03	4.05E-07	8.09E-02	3.68E-06
366677	3757025	Residential	2.79E-03	1.33E-07	6.58E-01	1.78E-05	3.71E-02	1.69E-06	1.91E-02	8.70E-07	7.01E-03	3.19E-07	6.32E-02	2.87E-06
366536	3757322	Residential	2.38E-03	1.14E-07	5.49E-01	1.48E-05	3.15E-02	1.43E-06	1.63E-02	7.40E-07	5.93E-03	2.69E-07	5.37E-02	2.44E-06
366437	3757531	Residential	2.13E-03	1.01E-07	4.97E-01	1.34E-05	2.82E-02	1.28E-06	1.46E-02	6.62E-07	5.33E-03	2.42E-07	4.81E-02	2.19E-06
366487	3757537	Residential	2.15E-03	1.02E-07	5.02E-01	1.36E-05	2.84E-02	1.29E-06	1.47E-02	6.67E-07	5.37E-03	2.44E-07	4.85E-02	2.20E-06
366624	3757468	Residential	2.31E-03	1.10E-07	5.41E-01	1.46E-05	3.06E-02	1.39E-06	1.58E-02	7.17E-07	5.78E-03	2.63E-07	5.21E-02	2.37E-06
366644	3757531	Residential	2.23E-03	1.06E-07	5.25E-01	1.42E-05	2.96E-02	1.34E-06	1.53E-02	6.94E-07	5.60E-03	2.54E-07	5.04E-02	2.29E-06
366777	3757520	Residential	2.31E-03	1.10E-07	5.46E-01	1.48E-05	3.07E-02	1.40E-06	1.59E-02	7.21E-07	5.81E-03	2.64E-07	5.24E-02	2.38E-06
366999	3757642	Residential	2.12E-03	1.01E-07	5.02E-01	1.36E-05	2.82E-02	1.28E-06	1.45E-02	6.61E-07	5.34E-03	2.43E-07	4.80E-02	2.18E-06
367174	3757740	Residential	1.83E-03	8.73E-08	4.34E-01	1.17E-05	2.43E-02	1.11E-06	1.26E-02	5.71E-07	4.61E-03	2.10E-07	4.15E-02	1.89E-06
367291	3757694	Residential	1.95E-03	9.29E-08	4.62E-01	1.25E-05	2.59E-02	1.18E-06	1.34E-02	6.08E-07	4.91E-03	2.23E-07	4.42E-02	2.01E-06
367413	3757695	Residential	2.18E-03	1.04E-07	4.97E-01	1.34E-05	2.88E-02	1.31E-06	1.49E-02	6.76E-07	5.40E-03	2.46E-07	4.91E-02	2.23E-06
367410	3757736	Residential	2.23E-03	1.06E-07	5.09E-01	1.38E-05	2.94E-02	1.34E-06	1.52E-02	6.91E-07	5.53E-03	2.51E-07	5.01E-02	2.28E-06
367518	3757796	Residential	2.56E-03	1.22E-07	5.97E-01	1.61E-05	3.39E-02	1.54E-06	1.75E-02	7.95E-07	6.40E-03	2.91E-07	5.78E-02	2.63E-06
367798	3758011	Residential	3.14E-03	1.50E-07	7.44E-01	2.01E-05	4.17E-02	1.90E-06	2.16E-02	9.80E-07	7.91E-03	3.60E-07	7.12E-02	3.24E-06
367914	3757962	Residential	3.37E-03	1.61E-07	7.99E-01	2.16E-05	4.48E-02	2.04E-06	2.31E-02	1.05E-06	8.49E-03	3.86E-07	7.64E-02	3.47E-06
367905	3757930	Residential	3.41E-03	1.63E-07	8.09E-01	2.19E-05	4.53E-02	2.06E-06	2.34E-02	1.06E-06	8.59E-03	3.91E-07	7.73E-02	3.52E-06
368109	3757840	Residential	3.88E-03	1.85E-07	9.18E-01	2.48E-05	5.15E-02	2.34E-06	2.66E-02	1.21E-06	9.76E-03	4.43E-07	8.78E-02	3.99E-06
368233	3757790	Residential	4.14E-03	1.97E-07	9.81E-01	2.65E-05	5.50E-02	2.50E-06	2.84E-02	1.29E-06	1.04E-02	4.74E-07	9.38E-02	4.26E-06
368309	3757762	Residential	4.28E-03	2.04E-07	1.02E+00	2.74E-05	5.69E-02	2.59E-06	2.94E-02	1.34E-06	1.08E-02	4.90E-07	9.71E-02	4.41E-06
368603	3757765	Residential	3.92E-03	1.87E-07	9.22E-01	2.49E-05	5.20E-02	2.36E-06	2.69E-02	1.22E-06	9.84E-03	4.47E-07	8.87E-02	4.03E-06
368604	3757719	Residential	4.02E-03	1.91E-07	9.52E-01	2.57E-05	5.34E-02	2.43E-06	2.76E-02	1.25E-06	1.01E-02	4.60E-07	9.10E-02	4.14E-06
368770	3757799	Residential	5.31E-03	2.53E-07	1.26E+00	3.40E-05	7.06E-02	3.21E-06	3.64E-02	1.66E-06	1.34E-02	6.08E-07	1.20E-01	5.47E-06
369017	3757954	Residential	5.28E-03	2.52E-07	1.25E+00	3.38E-05	7.02E-02	3.19E-06	3.62E-02	1.65E-06	1.33E-02	6.04E-07	1.20E-01	5.44E-06
369080	3757864	Residential	5.62E-03	2.68E-07	1.33E+00	3.60E-05	7.47E-02	3.39E-06	3.86E-02	1.75E-06	1.42E-02	6.43E-07	1.27E-01	5.79E-06
369224	3757952	Residential	4.32E-03	2.06E-07	1.02E+00	2.76E-05	5.73E-02	2.61E-06	2.96E-02	1.35E-06	1.09E-02	4.94E-07	9.78E-02	4.44E-06
369409	3757730	Residential	3.56E-03	1.69E-07	8.41E-01	2.27E-05	4.72E-02	2.15E-06	2.44E-02	1.11E-06	8.95E-03	4.07E-07	8.06E-02	3.66E-06
369454	3757776	Residential	2.99E-03	1.42E-07	6.95E-01	1.88E-05	3.96E-02	1.80E-06	2.04E-02	9.29E-07	7.46E-03	3.39E-07	6.75E-02	3.07E-06
369265	3757997	Residential	3.83E-03	1.82E-07	9.06E-01	2.45E-05	5.08E-02	2.31E-06	2.62E-02	1.19E-06	9.63E-03	4.38E-07	8.67E-02	3.94E-06
369452	3758128	Residential	2.11E-03	1.00E-07	4.98E-01	1.35E-05	2.80E-02	1.27E-06	1.44E-02	6.56E-07	5.30E-03	2.41E-07	4.77E-02	2.17E-06
369460	3758394	Residential	1.69E-03	8.05E-08	4.00E-01	1.08E-05	2.24E-02	1.02E-06	1.16E-02	5.27E-07	4.25E-03	1.93E-07	3.83E-02	1.74E-06
369853	3758394	Residential	1.63E-03	7.76E-08	3.76E-01	1.02E-05	2.15E-02	9.79E-07	1.11E-02	5.06E-07	4.06E-03	1.84E-07	3.67E-02	1.67E-06
369850	3758078	Residential	2.15E-03	1.02E-07	4.61E-01	1.24E-05	2.81E-02	1.28E-06	1.45E-02	6.61E-07	5.20E-03	2.36E-07	4.78E-02	2.17E-06
370886	3758089	Residential	2.84E-03	1.35E-07	6.28E-01	1.70E-05	3.72E-02	1.69E-06	1.92E-02	8.75E-07	6.94E-03	3.16E-07	6.34E-02	2.88E-06
371193	3757720	Residential	2.32E-03	1.10E-07	5.15E-01	1.39E-05	3.05E-02	1.38E-06	1.58E-02	7.16E-07	5.69E-03	2.58E-07	5.19E-02	2.36E-06
371254	3757762	Residential	2.23E-03	1.06E-07	4.97E-01	1.34E-05	2.92E-02	1.33E-06	1.51E-02	6.87E-07	5.46E-03	2.48E-07	4.98E-02	2.26E-06
371264	3757783	Residential	2.23E-03	1.06E-07	4.98E-01	1.35E-05	2.93E-02	1.33E-06	1.52E-02	6.89E-07	5.48E-03	2.49E-07	5.00E-02	2.27E-06
371372	3757782	Residential	2.11E-03	1.01E-07	4.66E-01	1.26E-05	2.77E-02	1.26E-06	1.43E-02	6.52E-07	5.17E-03	2.35E-07	4.72E-02	2.15E-06
371399	3757806	Residential	2.07E-03	9.87E-08	4.57E-01	1.23E-05	2.72E-02	1.24E-06	1.41E-02	6.39E-07	5.06E-03	2.30E-07	4.63E-02	2.10E-06
371798	3758080	Residential	1.64E-03	7.83E-08	3.65E-01	9.86E-06	2.16E-02	9.81E-07	1.12E-02	5.07E-07	4.03E-03	1.83E-07	3.68E-02	1.67E-06
371908	3757934	Residential	1.66E-03	7.93E-08	3.65E-01	9.87E-06	2.18E-02	9.91E-07	1.13E-02	5.13E-07	4.06E-03	1.84E-07	3.71E-02	1.69E-06
371964	3757922	Residential	1.63E-03	7.78E-08	3.58E-01	9.68E-06	2.14E-02	9.73E-07	1.11E-02	5.03E-07	3.98E-03	1.81E-07	3.65E-02	1.66E-06
371970	3757842	Residential	1.64E-03	7.83E-08	3.60E-01	9.74E-06	2.15E-02	9.79E-07	1.11E-02	5.06E-07	4.01E-03	1.82E-07	3.67E-02	1.67E-06
372023	3757843	Residential	1.61E-03	7.65E-08	3.52E-01	9.52E-06	2.10E-02	9.57E-07	1.09E-02	4.95E-07	3.92E-03	1.78E-07	3.59E-02	1.63E-06
370801	3755276	Residential	1.30E-03	6.18E-08	2.85E-01	7.72E-06	1.70E-02	7.74E-07	8.81E-03	4.00E-07	3.17E-03	1.44E-07	2.90E-02	1.32E-06
370667	3755262	Residential	1.29E-03	6.13E-08	2.80E-01	7.57E-06	1.68E-02	7.66E-07	8.72E-03	3.96E-07	3.13E-03	1.42E-07	2.87E-02	1.30E-06
370380	3755263	Residential	1.25E-03	5.94E-08	2.84E-01	7.67E-06	1.65E-02	7.48E-07	8.50E-03	3.87E-07	3.09E-03	1.40E-07	2.80E-02	1.27E-06
370076	3755265	Residential	1.73E-03	8.25E-08	4.09E-01	1.11E-05	2.30E-02	1.05E-06	1.19E-02	5.40E-07	4.36E-03	1.98E-07	3.92E-02	1.78E-06
369498	3755268	Residential	2.33E-03	1.11E-07	5.47E-01	1.48E-05	3.09E-02	1.41E-06	1.60E-02	7.26E-07	5.85E-03	2.66E-07	5.28E-02	2.40E-06
369194	3755270	Residential	3.42E-03	1.63E-07	8.10E-01	2.19E-05	4.55E-02	2.07E-06	2.35E-02	1.07E-06	8.61E-03	3.92E-07	7.75E-02	3.52E-06
368889	3755272	Residential	5.37E-03	2.56E-07	1.27E+00	3.44E-05	7.13E-02	3.24E-06	3.68E-02	1.67E-06	1.35E-02	6.14E-07	1.22E-01	5.53E-06



**Table D-6**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Offsite Receptors**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	Receptor Type	styrene	styrene	toluene	toluene	xylene, m-	xylene, m-	xylene, o-	xylene, o-	xylene, p-	xylene, p-	Total Xylenes	Total Xylenes
			( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard	( $\mu\text{g}/\text{m}^3$ )	Acute Hazard
		CalEPA REL		21000		37000		22000		22000		22000		22000
368569	3755273	Residential	7.71E-03	3.67E-07	1.83E+00	4.93E-05	1.02E-01	4.65E-06	5.29E-02	2.40E-06	1.94E-02	8.82E-07	1.75E-01	7.94E-06
368275	3755275	Residential	7.21E-03	3.43E-07	1.71E+00	4.62E-05	9.58E-02	4.35E-06	4.95E-02	2.25E-06	1.82E-02	8.25E-07	1.63E-01	7.43E-06
367936	3755213	Residential	5.90E-03	2.81E-07	1.37E+00	3.71E-05	7.80E-02	3.55E-06	4.03E-02	1.83E-06	1.47E-02	6.69E-07	1.33E-01	6.05E-06
367539	3757802	School	2.62E-03	1.25E-07	6.12E-01	1.65E-05	3.47E-02	1.58E-06	1.79E-02	8.14E-07	6.55E-03	2.98E-07	5.92E-02	2.69E-06
367609	3757677	School	2.68E-03	1.28E-07	6.28E-01	1.70E-05	3.56E-02	1.62E-06	1.84E-02	8.35E-07	6.72E-03	3.05E-07	6.07E-02	2.76E-06
367769	3757644	School	3.16E-03	1.51E-07	7.47E-01	2.02E-05	4.20E-02	1.91E-06	2.17E-02	9.85E-07	7.95E-03	3.61E-07	7.16E-02	3.25E-06
367775	3757719	School	3.23E-03	1.54E-07	7.64E-01	2.06E-05	4.29E-02	1.95E-06	2.22E-02	1.01E-06	8.13E-03	3.69E-07	7.32E-02	3.33E-06
367809	3757835	School	3.33E-03	1.58E-07	7.87E-01	2.13E-05	4.42E-02	2.01E-06	2.28E-02	1.04E-06	8.37E-03	3.80E-07	7.53E-02	3.42E-06
367807	3757936	School	3.25E-03	1.55E-07	7.68E-01	2.08E-05	4.31E-02	1.96E-06	2.23E-02	1.01E-06	8.17E-03	3.71E-07	7.35E-02	3.34E-06
367775	3757959	School	3.17E-03	1.51E-07	7.49E-01	2.02E-05	4.20E-02	1.91E-06	2.17E-02	9.87E-07	7.96E-03	3.62E-07	7.17E-02	3.26E-06
370299	3758078	School	3.31E-03	1.58E-07	7.34E-01	1.98E-05	4.35E-02	1.98E-06	2.25E-02	1.02E-06	8.11E-03	3.69E-07	7.41E-02	3.37E-06
370298	3757963	School	3.74E-03	1.78E-07	8.36E-01	2.26E-05	4.91E-02	2.23E-06	2.54E-02	1.15E-06	9.19E-03	4.18E-07	8.37E-02	3.81E-06
370382	3757966	School	3.68E-03	1.75E-07	8.24E-01	2.23E-05	4.84E-02	2.20E-06	2.50E-02	1.14E-06	9.05E-03	4.11E-07	8.24E-02	3.75E-06
370510	3758027	School	3.39E-03	1.62E-07	7.61E-01	2.06E-05	4.46E-02	2.03E-06	2.31E-02	1.05E-06	8.35E-03	3.80E-07	7.61E-02	3.46E-06
370506	3758088	School	3.27E-03	1.56E-07	7.31E-01	1.98E-05	4.30E-02	1.96E-06	2.22E-02	1.01E-06	8.04E-03	3.65E-07	7.33E-02	3.33E-06
369787	3755267	School	2.22E-03	1.06E-07	5.24E-01	1.42E-05	2.95E-02	1.34E-06	1.52E-02	6.92E-07	5.58E-03	2.54E-07	5.03E-02	2.29E-06

**Table D-7**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Onsite Construction Workers**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	1-Hour PM10 Conc. (µg/m <sup>3</sup> )	AMMONIUM ION (µg/m <sup>3</sup> )	ANTIMONY (µg/m <sup>3</sup> )	ARSENIC (µg/m <sup>3</sup> )	BROMINE (µg/m <sup>3</sup> )	CADMIUM (µg/m <sup>3</sup> )	CHLORINE (µg/m <sup>3</sup> )	CHROMIUM VI (µg/m <sup>3</sup> )	COPPER (µg/m <sup>3</sup> )	LEAD (µg/m <sup>3</sup> )	MANGANESE (µg/m <sup>3</sup> )	MERCURY (µg/m <sup>3</sup> )	NICKEL (µg/m <sup>3</sup> )	SELENIUM (µg/m <sup>3</sup> )	SILICON (µg/m <sup>3</sup> )	SULFATES (µg/m <sup>3</sup> )	VANADIUM (µg/m <sup>3</sup> )	ZINC (µg/m <sup>3</sup> )	DIESEL PM (µg/m <sup>3</sup> )
369,454	3,756,947	159.559	8.73E-02	3.35E-03	3.44E-03	5.38E-03	6.37E-03	6.21E-01	5.30E-03	2.00E-02	9.87E-02	1.61E-01	3.37E-03	1.13E-02	7.69E-04	3.41E+01	2.64E-01	4.67E-02	1.01E-01	1.94E+01
369,009	3,756,896	207.861	<b>1.09E-01</b>	<b>4.33E-03</b>	<b>4.51E-03</b>	<b>7.03E-03</b>	<b>8.32E-03</b>	<b>8.13E-01</b>	<b>6.96E-03</b>	<b>2.63E-02</b>	<b>1.30E-01</b>	<b>2.12E-01</b>	<b>4.37E-03</b>	<b>1.48E-02</b>	1.01E-03	<b>4.48E+01</b>	3.49E-01	<b>6.13E-02</b>	<b>1.32E-01</b>	<b>2.36E+01</b>
369,035	3,756,464	185.660	9.46E-02	3.85E-03	4.04E-03	6.28E-03	7.47E-03	7.28E-01	6.24E-03	2.36E-02	1.16E-01	1.90E-01	3.89E-03	1.33E-02	9.51E-04	4.02E+01	3.48E-01	5.49E-02	1.18E-01	2.04E+01
369,066	3,756,031	144.301	8.15E-02	3.04E-03	3.09E-03	4.85E-03	5.82E-03	5.58E-01	4.76E-03	1.81E-02	8.86E-02	1.45E-01	3.05E-03	1.02E-02	7.72E-04	3.06E+01	3.00E-01	4.19E-02	9.14E-02	1.83E+01
367,897	3,756,019	40.774	3.50E-02	8.13E-04	6.55E-04	1.13E-03	3.50E-03	1.21E-01	1.28E-03	5.95E-03	2.03E-02	3.17E-02	7.83E-04	4.32E-03	<b>2.31E-03</b>	6.92E+00	<b>1.77E+00</b>	8.66E-03	2.31E-02	9.21E+00
<b>Maximum Onsite Concentration--&gt;</b>			1.09E-01	4.33E-03	4.51E-03	7.03E-03	8.32E-03	8.13E-01	6.96E-03	2.63E-02	1.30E-01	2.12E-01	4.37E-03	1.48E-02	2.31E-03	4.48E+01	1.77E+00	6.13E-02	1.32E-01	2.36E+01
<b>Average Onsite Concentration--&gt;</b>			8.14E-02	3.08E-03	3.15E-03	4.93E-03	6.30E-03	5.68E-01	4.91E-03	1.88E-02	9.07E-02	1.48E-01	3.09E-03	1.08E-02	1.16E-03	3.13E+01	6.05E-01	4.27E-02	9.33E-02	1.82E+01
<b>Minimum Onsite Concentration--&gt;</b>			3.50E-02	8.13E-04	6.55E-04	1.13E-03	3.50E-03	1.21E-01	1.28E-03	5.95E-03	2.03E-02	3.17E-02	7.83E-04	4.32E-03	7.69E-04	6.92E+00	2.64E-01	8.66E-03	2.31E-02	9.21E+00
<b>CalEPA REL</b>			3200	NA	0.19	NA	NA	210	NA	100	NA	NA	1.8	6	NA	NA	120	30	NA	NA
<b>Onsite Maximum Acute Hazard--&gt;</b>			3.39E-05	NA	2.38E-02	NA	NA	3.87E-03	NA	2.63E-04	NA	NA	2.43E-03	2.46E-03	NA	NA	1.47E-02	2.04E-03	NA	NA
<b>Average Maximum Acute Hazard--&gt;</b>			2.54E-05	NA	1.66E-02	NA	NA	2.71E-03	NA	1.88E-04	NA	NA	1.72E-03	1.80E-03	NA	NA	5.04E-03	1.42E-03	NA	NA
<b>Onsite Minimum Acute Hazard--&gt;</b>			1.09E-05	NA	3.45E-03	NA	NA	5.77E-04	NA	5.95E-05	NA	NA	4.35E-04	7.20E-04	NA	NA	2.20E-03	2.89E-04	NA	NA

(µg/m<sup>3</sup>) = micrograms/cubic meter,

**Table D-8**  
**Calculation of Mitigated Incremental Acute Hazard Indices for PM10 for the CFTP for Onsite Construction Workers**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	1-Hour PM10 Conc. ( $\mu\text{g}/\text{m}^3$ )	AMMONIUM ION ( $\mu\text{g}/\text{m}^3$ )	ANTIMONY ( $\mu\text{g}/\text{m}^3$ )	ARSENIC ( $\mu\text{g}/\text{m}^3$ )	BROMINE ( $\mu\text{g}/\text{m}^3$ )	CADMIUM ( $\mu\text{g}/\text{m}^3$ )	CHLORINE ( $\mu\text{g}/\text{m}^3$ )	CHROMIUM VI ( $\mu\text{g}/\text{m}^3$ )	COPPER ( $\mu\text{g}/\text{m}^3$ )	LEAD ( $\mu\text{g}/\text{m}^3$ )	MANGANESE ( $\mu\text{g}/\text{m}^3$ )	MERCURY ( $\mu\text{g}/\text{m}^3$ )	NICKEL ( $\mu\text{g}/\text{m}^3$ )	SELENIUM ( $\mu\text{g}/\text{m}^3$ )	SILICON ( $\mu\text{g}/\text{m}^3$ )	SULFATES ( $\mu\text{g}/\text{m}^3$ )	VANADIUM ( $\mu\text{g}/\text{m}^3$ )	ZINC ( $\mu\text{g}/\text{m}^3$ )	DIESEL PM ( $\mu\text{g}/\text{m}^3$ )
369,454	3,756,947	57.934	4.68E-02	1.29E-03	1.15E-03	1.96E-03	2.32E-03	2.20E-01	1.76E-03	6.82E-03	3.26E-02	5.32E-02	1.27E-03	3.92E-03	3.27E-04	1.12E+01	1.97E-01	1.54E-02	3.57E-02	1.17E+01
369,009	3,756,896	75.041	<b>5.78E-02</b>	<b>1.66E-03</b>	<b>1.51E-03</b>	<b>2.55E-03</b>	<b>3.02E-03</b>	<b>2.86E-01</b>	<b>2.31E-03</b>	<b>8.93E-03</b>	<b>4.28E-02</b>	<b>6.99E-02</b>	<b>1.63E-03</b>	<b>5.12E-03</b>	4.27E-04	<b>1.47E+01</b>	2.52E-01	<b>2.03E-02</b>	<b>4.64E-02</b>	<b>1.43E+01</b>
369,035	3,756,464	66.858	5.01E-02	1.47E-03	1.35E-03	2.27E-03	2.71E-03	2.56E-01	2.07E-03	8.01E-03	3.83E-02	6.26E-02	1.45E-03	4.60E-03	4.03E-04	1.32E+01	2.40E-01	1.82E-02	4.14E-02	1.24E+01
369,066	3,756,031	52.705	4.39E-02	1.18E-03	1.04E-03	1.78E-03	2.14E-03	1.98E-01	1.59E-03	6.18E-03	2.93E-02	4.78E-02	1.15E-03	3.57E-03	3.34E-04	1.01E+01	2.10E-01	1.39E-02	3.23E-02	1.11E+01
367,897	3,756,019	17.180	2.02E-02	3.61E-04	2.30E-04	4.68E-04	1.50E-03	4.79E-02	4.70E-04	2.32E-03	7.07E-03	1.09E-02	3.36E-04	1.76E-03	<b>1.03E-03</b>	2.38E+00	<b>8.15E-01</b>	2.94E-03	9.05E-03	5.60E+00
<b>Maximum Onsite Concentration--&gt;</b>			5.78E-02	1.66E-03	1.51E-03	2.55E-03	3.02E-03	2.86E-01	2.31E-03	8.93E-03	4.28E-02	6.99E-02	1.63E-03	5.12E-03	1.03E-03	1.47E+01	8.15E-01	2.03E-02	4.64E-02	1.43E+01
<b>Average Onsite Concentration--&gt;</b>			4.38E-02	1.19E-03	1.06E-03	1.80E-03	2.34E-03	2.02E-01	1.64E-03	6.45E-03	3.00E-02	4.89E-02	1.17E-03	3.80E-03	5.04E-04	1.03E+01	3.43E-01	1.41E-02	3.30E-02	1.10E+01
<b>Minimum Onsite Concentration--&gt;</b>			2.02E-02	3.61E-04	2.30E-04	4.68E-04	1.50E-03	4.79E-02	4.70E-04	2.32E-03	7.07E-03	1.09E-02	3.36E-04	1.76E-03	3.27E-04	2.38E+00	1.97E-01	2.94E-03	9.05E-03	5.60E+00
CalEPA REL			3200	NA	0.19	NA	NA	210	NA	100	NA	NA	1.8	6	NA	NA	120	30	NA	NA
<b>Onsite Maximum Acute Hazard--&gt;</b>			1.81E-05	NA	7.95E-03	NA	NA	1.36E-03	NA	8.93E-05	NA	NA	9.06E-04	8.54E-04	NA	NA	6.80E-03	6.76E-04	NA	NA
<b>Onsite Average Acute Hazard--&gt;</b>			1.37E-05	NA	5.56E-03	NA	NA	9.60E-04	NA	6.45E-05	NA	NA	6.48E-04	6.33E-04	NA	NA	2.86E-03	4.71E-04	NA	NA
<b>Onsite Minimum Acute Hazard--&gt;</b>			6.31E-06	NA	1.21E-03	NA	NA	2.28E-04	NA	2.32E-05	NA	NA	1.87E-04	2.94E-04	NA	NA	1.64E-03	9.81E-05	NA	NA

**Table D-9**  
**Calculation of Unmitigated Incremental Acute Hazard Indices for ROG for the CFTP for Onsite Construction Workers**  
**LAX Crossfield Taxiway Project**  
**Construction TAC Concentrations**

X	Y	1-Hour ROG Conc. (µg/m³)	1-Hour TOG Conc. (µg/m³)	acetaldehyde (µg/m³)	acrolein (µg/m³)	benzene (µg/m³)	butadiene, 1,3- (µg/m³)	ethylbenzene (µg/m³)	ethylene glycol (µg/m³)	formaldehyde (µg/m³)	hexane, n- (µg/m³)	isopropyl alcohol (µg/m³)	methyl alcohol (µg/m³)	methyl ethyl ketone (µg/m³)	methyl t-butyl ether (µg/m³)	naphthalene (µg/m³)	propylene (µg/m³)	styrene (µg/m³)	toluene (µg/m³)	xylylene, m- (µg/m³)	xylylene, o- (µg/m³)	xylylene, p- (µg/m³)	Total Xylenes (µg/m³)
369454	3756947	1.18E+02	1.19E+02	3.31E+00	9.90E-04	9.21E-01	8.96E-02	7.52E-01	7.84E-02	6.64E+00	1.92E+00	1.90E-01	1.23E-01	7.38E-01	1.42E-02	8.09E-01	1.19E+00	2.71E-02	6.37E+00	3.59E-01	1.85E-01	6.79E-02	6.12E-01
369009	3756896	1.44E+02	1.45E+02	<b>4.04E+00</b>	<b>1.20E-03</b>	<b>1.12E+00</b>	<b>1.09E-01</b>	<b>9.22E-01</b>	<b>9.62E-02</b>	<b>8.09E+00</b>	<b>2.35E+00</b>	<b>2.33E-01</b>	<b>1.51E-01</b>	<b>8.99E-01</b>	<b>1.73E-02</b>	<b>9.93E-01</b>	<b>1.45E+00</b>	<b>3.30E-02</b>	<b>7.80E+00</b>	<b>4.38E-01</b>	<b>2.26E-01</b>	<b>8.29E-02</b>	<b>7.46E-01</b>
369035	3756464	1.24E+02	1.25E+02	3.47E+00	1.03E-03	9.64E-01	9.38E-02	7.92E-01	8.26E-02	6.95E+00	2.02E+00	2.00E-01	1.30E-01	7.73E-01	1.49E-02	8.53E-01	1.25E+00	2.83E-02	6.70E+00	3.76E-01	1.94E-01	7.13E-02	6.42E-01
369066	3756031	1.11E+02	1.12E+02	3.12E+00	9.26E-04	8.67E-01	8.43E-02	7.09E-01	7.39E-02	6.25E+00	1.81E+00	1.79E-01	1.16E-01	6.95E-01	1.33E-02	7.63E-01	1.12E+00	2.55E-02	6.00E+00	3.38E-01	1.74E-01	6.39E-02	5.76E-01
367897	3756019	3.74E+01	3.77E+01	1.56E+00	4.66E-04	4.34E-01	4.23E-02	2.03E-01	1.74E-02	3.13E+00	4.45E-01	4.21E-02	3.14E-02	3.30E-01	6.70E-03	1.89E-01	5.62E-01	1.28E-02	1.59E+00	1.55E-01	8.11E-02	2.57E-02	2.62E-01
				4.04E+00	1.20E-03	1.12E+00	1.09E-01	9.22E-01	9.62E-02	8.09E+00	2.35E+00	2.33E-01	1.51E-01	8.99E-01	1.73E-02	9.93E-01	1.45E+00	3.30E-02	7.80E+00	4.38E-01	2.26E-01	8.29E-02	7.46E-01
				3.10E+00	9.24E-04	8.61E-01	8.38E-02	6.76E-01	6.97E-02	6.21E+00	1.71E+00	1.69E-01	1.10E-01	6.87E-01	1.33E-02	7.21E-01	1.12E+00	2.53E-02	5.69E+00	3.33E-01	1.72E-01	6.23E-02	5.68E-01
				1.56E+00	4.66E-04	4.34E-01	4.23E-02	2.03E-01	1.74E-02	3.13E+00	4.45E-01	4.21E-02	3.14E-02	3.30E-01	6.70E-03	1.89E-01	5.62E-01	1.28E-02	1.59E+00	1.55E-01	8.11E-02	2.57E-02	2.62E-01
				NA	0.19	1,300	NA	NA	NA	94	NA	3,200	28,000	13,000	NA	NA	NA	21,000	37,000	22,000	22,000	22,000	22,000
				NA	6.34E-03	8.63E-04	NA	NA	NA	8.61E-02	NA	7.28E-05	5.40E-06	6.92E-05	NA	NA	NA	1.57E-06	2.11E-04	1.99E-05	1.03E-05	3.77E-06	3.39E-05
				NA	4.86E-03	6.63E-04	NA	NA	NA	6.61E-02	NA	5.28E-05	3.94E-06	5.28E-05	NA	NA	NA	1.21E-06	1.54E-04	1.51E-05	7.83E-06	2.83E-06	2.58E-05
				NA	2.45E-03	3.34E-04	NA	NA	NA	3.33E-02	NA	1.32E-05	1.12E-06	2.54E-05	NA	NA	NA	6.07E-07	4.29E-05	7.04E-06	3.69E-06	1.17E-06	1.19E-05

Appendix E  
LAX Crossfield Taxiway Project Draft EIR

**CFTP Building Demolition -- GHG Emissions**

September 2008

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# 1. DESCRIPTION

Greenhouse gas (GHG) emissions resulting from the on-site combustion of natural gas (direct emissions) and electricity demand (indirect emissions) were calculated for several buildings and lighting located on LAWA properties. Emissions were calculated for a baseline, assuming that the buildings were still operating, and for a post-demolition scenario.

Emissions associated with the buildings were assumed to either be relocated to a new location, to be absorbed into a new facility, or to be removed completely. This report documents the assumptions and methods used to calculate emissions.

## 2. METHOD

Emissions of carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) were calculated and reported. Following international standard, the global warming potential (GWP) from the Intergovernmental Panel on Climate Change's (IPCC's) Second Assessment Report<sup>1</sup> were used to calculate the carbon dioxide equivalent (CO<sub>2</sub>e) of CH<sub>4</sub> and N<sub>2</sub>O. The GWP reflects the higher potency of non-CO<sub>2</sub> pollutants; for example, CH<sub>4</sub> has a global warming effect that is 21 times that of CO<sub>2</sub>. The CO<sub>2</sub>e is therefore calculated by multiplying the emissions of each pollutant by its respective GWP.

### 2.1 Usage Factors

The natural gas and electricity usage in each building was estimated from the building's area (square feet). Natural gas usage factors from the Urban Emissions (URBEMIS) model, Version 9.2.4 were used for all buildings except the existing fire station. The fire station instead used natural gas usage factors from the Energy Information Administration's (EIA's) 1999 Commercial Buildings Energy Consumption Survey (CBECS) results. Electricity usage factors were obtained from the CBECS for all buildings. A fact sheet from the International Dark-Sky Association was used to approximate the annual hours of operation for the outside lighting (4,100 hours per year).

### 2.2 Emission Factors

Emission factors were obtained from The Climate Registry's General Reporting Protocol (May 2008) for all pollutants with the exception of CO<sub>2</sub> from electricity. The CO<sub>2</sub> electricity emission factor was obtained from the 2005 California Climate Action Registry (CCAR) emissions report for the Los Angeles Department of Water & Power (LADWP). Since the LADWP uses a higher percentage of coal than the rest of the state in its electricity generation, this method produced a more accurate estimate of emissions than using the default factors from The Climate Registry.

## 3. NATURAL GAS RESULTS

**Table 1** summarizes the calculated CO<sub>2</sub>e emissions from natural gas combustion. This list is truncated from the entire building list because not every building had a natural gas source. CO<sub>2</sub>e emissions from natural gas will be increased by 41 metric tons per year; detailed emission calculations are shown on the attached spreadsheet.

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<sup>1</sup> Scientific Assessment Reports of the Intergovernmental Panel on Climate Change, 1996.

## E. CFTP Building Demolition -- GHG Emissions

Table 1

### Natural Gas Results

Facility	Baseline Usage (cf)	CO <sub>2</sub> e Baseline Emissions (metric tons per year)	CO <sub>2</sub> e Post-Demolition Emissions (metric tons per year)	Difference (metric tons per year)
LAWA Records Center-Storage	288,000	16	0	(16)
LAWA Records Center-Office	36,000	2	0	(2)
LSG SkyChefs Flight Kitchen	2,366,400	130	130	0
American Airlines GSE Maint.-Service	382,800	21	21	0
American Airlines GSE Maint.-Office	48,000	3	3	0
Existing FS#80/ARFF	744,800	41	18	(22)
New ARFF <sup>1</sup>	1,484,014	0	81	81
<b>Total</b>	<b>3,866,000</b>	<b>212</b>	<b>254</b>	<b>41</b>

<sup>1</sup> New ARFF will replace existing fire station/ARFF. Natural gas consumption for new ARFF not included in baseline total.

Source: CDM, 2008.

The following assumptions were made regarding the continued use of natural gas by each of the facilities from the demolished buildings:

- ◆ **LAWA Records Center:** The storage portion of the Records Center is being absorbed into an existing building for storage; therefore, it is assumed that there would be no increased heating demand.  
The office portion will be relocated from a demolished building to an existing building; it is assumed there will be no increase in heating demand because the new building would already have existing heat.
- ◆ **LSG SkyChefs Flight Kitchen:** Although the kitchen is being consolidated into another kitchen, it is assumed that the amount of heat needed for cooking will not change from the previous facility. There will be no net change in emissions.
- ◆ **American Airlines GSE Maintenance:** The GSE maintenance facilities will be moved from the demolished building to a warehouse. It is assumed that natural gas usage in the warehouse would have been minimal prior to the inclusion of the GSE maintenance facilities. There will be no net change in emissions because the heating demand will remain the same from the previous location.
- ◆ **Existing Fire Station #80/ARFF:** The source will be taken out of active use; possibly be used for equipment storage.
- ◆ **New ARFF:** The new ARFF will replace the existing fire station and will be a new source of emissions from natural gas combustion.

## 4. ELECTRICITY RESULTS

**Table 2** summarizes the calculated CO<sub>2</sub>e emissions from purchased electricity consumption. CO<sub>2</sub>e emissions from electricity will decrease by 65 metric tons per year; detailed emission calculations are shown on the attached spreadsheet.

## E. CFTP Building Demolition -- GHG Emissions

**Table 2**  
**Electricity Results**

Facility	Baseline Usage (MWh)	CO <sub>2</sub> e Baseline Emissions (metric tons per year)	CO <sub>2</sub> e Post-Demolition Emissions (metric tons per year)	Difference (metric tons per year)
LAWA Records Center-Storage	90	53	0	(53)
LAWA Records Center-Office	25	15	15	0
LAPD Bomb Squad	97	57	0	(57)
SkyChefs Flight Kitchen	3,108	1,842	1,842	0
LAWA PD Former Decision Center	29	17	0	(17)
Mercury GSE Maintenance	18	11	11	0
Evergreen GSE Maintenance	41	25	25	0
American Airlines GSE Maint.-Service	101	60	60	0
American Airlines GSE Maint-Office	34	20	20	0
DHL Freight	36	22	22	0
Qantas Maintenance Building	59	35	35	0
Existing FS#80/ARFF	126	75	62	(12)
Existing Lighting -- RON	398	236	39	(158)
New ARFF(a)	228	0	135	135
New Lighting -- RON <sup>1</sup>	98	0	58	58
New Lighting -- AA Parking Lot	36	0	21	21
<b>Total</b>	<b>4,162</b>	<b>2,467</b>	<b>2,396</b>	<b>(65)</b>

<sup>1</sup> The new ARFF, RON lighting, and AA replacement parking lot lighting are new sources and are not included in the baseline consumption rate.

Source: CDM, 2008.

The following assumptions were made regarding the continued use of electricity by each of the facilities from the demolished buildings:

- ◆ **LAWA Records Center-Storage:** Addition of storage space in new building will not increase electricity demand.
- ◆ The electricity demand for the following facilities is conservatively assumed to be unchanged regardless of location. Even though some aspects of electricity consumption at the facilities to be relocated will be slightly reduced, such as common area lighting and space conditioning at the existing (old) facility that would already exist at the facility to be moved into, consequently resulting in a new reduction in energy use when the old facility is demolished, it is assumed that devices like personal computers, other office equipment, and maintenance equipment, which typically constitute the majority of energy consumption at the affected facilities, will place an equivalent demand on the system:
  - ◆ LAWA Records Center-Office
  - ◆ LAPD Bomb Squad
  - ◆ SkyChefs Flight Kitchen
  - ◆ Mercury GSE Maintenance
  - ◆ Evergreen GSE Maintenance
  - ◆ American Airlines GSE Maintenance
  - ◆ DHL Freight
  - ◆ Qantas Maintenance Building

## ***E. CFTP Building Demolition -- GHG Emissions***

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- ◆ The following buildings will be demolished and will not be replaced; emissions will therefore be reduced to zero:
  - ◆ LAWA PD Former Decision Center
- ◆ The following source will be taken out of active use; possibly be used for equipment storage.
  - ◆ Existing FS#80/ARFF
- ◆ The following source will be partially demolished and partially relocated.
  - ◆ Existing RON lighting
- ◆ The following sources are new and were not included in the emissions baseline. They are therefore a new source of emissions above the pre-demolition baseline:
  - ◆ New ARFF<sup>2</sup>
  - ◆ New Lighting – RON
  - ◆ New Lighting – AA Replacement Parking Lot

## **5. OVERALL RESULTS**

CO<sub>2</sub>e emissions from the demolition of the CFTP buildings are expected to be decreased by a total of 24 metric tons per year. The increase in emissions from the operation of the new ARFF and RON lighting is offset largely by the removal of most of the existing RON lighting and the LAWA PD former Decision Center.

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<sup>2</sup> The new ARFF building is expected to have improved energy efficiency over the existing ARFF building because of Title 24 requirements plus LEED certification. The old building assumed to be using ASHRAE 90.1-2004 as the federal standard.

**Attachment 1**

**Calculations**



Scenario	CO2e Emissions (metric tons)		
	Natural Gas	Electricity	Total
Baseline	212	2,467	2,680
Post-Demolition	254	2,402	2,655
Difference	41	(65)	(24)

**Emission Factors**

		Source	GWP	
CO2	1,303.58 lbs/MWh	LADWP CCAR Reports	CO2	1
CH4	0.036 lbs/MWh	Table 14.1	CH4	21
N2O	0.008 lbs/MWh	Table 14.1	N2O	310

Global warming potential (GWP) values from IPCC, Second Assessment Report (SAR), 1996.

**Baseline**

Facility	Usage (MWh)	Emissions (metric tons)			Emissions, CO2e (metric tons)			Total
		CO2	CH4	N2O	CO2	CH4	N2O	
LAWA Records Center (a)	90	53	1.47E-03	3.27E-04	53	3.09E-02	1.01E-01	53
LAWA Records Center (b)	25	15	4.12E-04	9.14E-05	15	8.64E-03	2.83E-02	15
LAPD Bomb Squad	97	57	1.58E-03	3.51E-04	57	3.32E-02	1.09E-01	57
SkyChefs Flight Kitchen	3,108	1,838	5.07E-02	1.13E-02	1,838	1	3	1,842
LAWA PD Former Decision Cntr	29	17	4.80E-04	1.07E-04	17	1.01E-02	3.31E-02	17
Mercury GSE Maintenance	18	11	3.00E-04	6.68E-05	11	6.31E-03	2.07E-02	11
Evergreen GSE Maintenance	41	24	6.76E-04	1.50E-04	24	1.42E-02	4.66E-02	25
American Airlines GSE Maint.(a)	101	60	1.65E-03	3.67E-04	60	3.47E-02	1.14E-01	60
American Airlines GSE Maint.(b)	34	20	5.49E-04	1.22E-04	20	1.15E-02	3.78E-02	20
DHL Freight	36	21	5.93E-04	1.32E-04	21	1.24E-02	4.08E-02	22
Qantas Maintenance Building	59	35	9.60E-04	2.13E-04	35	2.02E-02	6.61E-02	35
Existing FS#80/ARFF	126	75	2.06E-03	4.57E-04	75	4.32E-02	1.42E-01	75
Existing RON	398	235	6.49E-03	1.44E-03	235	1.36E-01	4.47E-01	236
<b>Total</b>	<b>4,162</b>	<b>2,461</b>	<b>6.80E-02</b>	<b>1.51E-02</b>	<b>2,461</b>	<b>1</b>	<b>5</b>	<b>2,467</b>

**Demolition**

Facility	Usage (MWh)	Emissions (metric tons)			Emissions, CO2e (metric tons)			CO2e Difference (metric tons)	Comments
		CO2	CH4	N2O	CO2	CH4	N2O		
LAWA Records Center (a)	0	0	0	0	0	0	0	0	(53) Addition of storage space will not increase electricity demand
LAWA Records Center (b)	25	15	4.12E-04	9.14E-05	15	8.64E-03	2.83E-02	15	0 Electricity demand assumed to be same, regardless of location
LAPD Bomb Squad	97	57	1.58E-03	3.51E-04	57	3.32E-02	1.09E-01	57	0 Facility will be absorbed into new LAPD location
SkyChefs Flight Kitchen	3,108	1,838	5.07E-02	1.13E-02	1,838	1	3	1,842	0 No change in energy assumed - Electricity for cooking assumed to remain constant, regardless of location
LAWA PD Former Decision Cntr	0	0	0	0	0	0	0	0	(17) Facility will not be replaced
Mercury GSE Maintenance	18	11	3.00E-04	6.68E-05	11	6.31E-03	2.07E-02	11	0 No change in energy assumed - Electricity for cooking assumed to remain constant, regardless of location
Evergreen GSE Maintenance	41	24	6.76E-04	1.50E-04	24	1.42E-02	4.66E-02	25	0 Demand will not change because being moved to a warehouse. Usage assumed to be minimal in warehouse prior to move
American Airlines GSE Maint.(a)	101	60	1.65E-03	3.67E-04	60	3.47E-02	1.14E-01	60	0 see above comment
American Airlines GSE Maint.(b)	34	20	5.49E-04	1.22E-04	20	1.15E-02	3.78E-02	20	0 see above comment
DHL Freight	36	21	5.93E-04	1.32E-04	21	1.24E-02	4.08E-02	22	0 No change in energy assumed - Electricity for cooking assumed to remain constant, regardless of location
Qantas Maintenance Building	59	35	9.60E-04	2.13E-04	35	2.02E-02	6.61E-02	35	0 No change in energy assumed - Electricity for cooking assumed to remain constant, regardless of location
Existing FS#80/ARFF	105	62	1.71E-03	3.81E-04	62	3.60E-02	1.18E-01	62	(12) Building may be used for storage
Existing RON	66	39	1.07E-03	2.38E-04	39	2.25E-02	7.38E-02	39	(197) 4 poles will be relocated
New ARFF	228	135	3.72E-03	8.27E-04	135	7.82E-02	2.56E-01	135	135 New ARFF to replace existing Fire Station.
New RON Lights	98	58	1.61E-03	3.57E-04	58	3.37E-02	1.11E-01	58	58 twelve (12) poles, each with two (2) 1,000-watt metal halide floodlights
AA Parking Lot Lights	36	21	5.86E-04	1.30E-04	21	1.23E-02	4.04E-02	21	21 35 poles, 250-watt each
<b>Total</b>	<b>4,052</b>	<b>2,396</b>	<b>6.62E-02</b>	<b>1.47E-02</b>	<b>2,396</b>	<b>1</b>	<b>5</b>	<b>2,402</b>	<b>(65)</b>

**Equations**

CO2, CH4, or N2O Emissions = Emission factor (lbs/MWh) x Usage (MWh) x 453.6 (g/lb) x 10^-6 (metric ton/g);  
 CO2e Emissions = CH4 or N2O (metric ton) x GWP

**Lighting System (RON):**

Total wattage of system = 12 poles x 2 floodlights per pole x 1,000 watts per floodlight = 24,000 watts = 0.024 MW  
 Emissions = Emission factor (lbs/MWh) x 8,760 hours x Rating (MW) x 453.6 (g/lb) x 10^-6 (metric ton/g);

**Source of Emission Factors:**

CH4 and N2O:

The Climate Registry, 2008. General Reporting Protocol. Version 1.1.1. May.



Emission Factors		Source	GWP	
CO2	0.0546 kg/scf	Table 12.1	CO2	1
CH4	0.9 g/MMBtu	Table 12.8	CH4	21
N2O	0.9 g/MMBtu	Table 12.8	N2O	310

Higher Heating Value 1,029 Btu/scf Weighted US Avg Global warming potential (GWP) values from IPCC, Second Assessment Report (SAR), 1996.

#### Baseline

Facility	Usage (cf)	Emissions (metric tons)			Emissions, CO2e (metric tons)			Total
		CO2	CH4	N2O	CO2	CH4	N2O	
LAWA Records Center (a)	288,000	16	2.67E-04	2.67E-04	16	5.60E-03	8.27E-02	16
LAWA Records Center (b)	36,000	2	3.33E-05	3.33E-05	2	7.00E-04	1.03E-02	2
SkyChefs Flight Kitchen	2,366,400	129	2.19E-03	2.19E-03	129	4.60E-02	6.79E-01	130
American Airlines GSE Maint.(a)	382,800	21	3.55E-04	3.55E-04	21	7.44E-03	1.10E-01	21
American Airlines GSE Maint.(b)	48,000	3	4.45E-05	4.45E-05	3	9.34E-04	1.38E-02	3
Existing FS#80/ARFF	744,800	41	6.90E-04	6.90E-04	41	1.45E-02	2.14E-01	41
<b>Total</b>	<b>3,866,000</b>	<b>211</b>	<b>3.58E-03</b>	<b>3.58E-03</b>	<b>211</b>	<b>7.52E-02</b>	<b>1</b>	<b>212</b>

#### Demolition

Facility	Usage (cf)	Emissions (metric tons)			Emissions, CO2e (metric tons)			Total	CO2e Difference (metric tons)	Comments
		CO2	CH4	N2O	CO2	CH4	N2O			
LAWA Records Center (a)	0	0	0	0	0	0	0	0	(16)	Addition of storage space will not increase heating demand
LAWA Records Center (b)	0	0	0	0	0	0	0	0	(2)	Relocation to new office will not increase heating demand (heating based on size of building and not number of people)
SkyChefs Flight Kitchen	2,366,400	129	2.19E-03	2.19E-03	129	4.60E-02	6.79E-01	130	0	No change in energy assumed - NG for cooking assumed to remain constant, regardless of location.
American Airlines GSE Maint.(a)	382,800	21	3.55E-04	3.55E-04	21	7.44E-03	1.10E-01	21	0	Demand will not change because being moved to a warehouse. Usage assumed to be minimal in warehouse prior to move.
American Airlines GSE Maint.(b)	48,000	3	4.45E-05	4.45E-05	3	9.34E-04	1.38E-02	3	0	see above comment
Existing FS#80/ARFF	336,000	18	3.11E-04	3.11E-04	18	6.53E-03	9.65E-02	18	(22)	Building may be used for storage
New ARFF	1,484,014	81	1.37E-03	1.37E-03	81	2.89E-02	4.26E-01	81	81	New ARFF to replace existing Fire Station.
<b>Total</b>	<b>4,617,214</b>	<b>252</b>	<b>4.28E-03</b>	<b>4.28E-03</b>	<b>252</b>	<b>8.98E-02</b>	<b>1</b>	<b>254</b>	<b>41</b>	

#### Equations

CO2 Emissions = Emission factor (kg/scf) x Usage (cf) x 0.001 metric ton/kg

CH4 and N2O Emissions = Emission Factor (g/MMBtu) x 10<sup>-6</sup> (MMBtu/Btu) x HHV (Btu/scf) x Usage (cf) x 10<sup>-6</sup> (g/metric ton)

CO2e Emissions = CH4 or N2O (metric ton) x GWP

#### Source of Emission Factors:

The Climate Registry, 2008. General Reporting Protocol. Version 1.1. May.

	1	2	3	5
Facility	Building SF	Use	Natural Gas	
LAWA Records Center (a)	12,000	Storage	Y	
LAWA Records Center (b)	1,500	Office	Y	
SkyChefs Flight Kitchen	68,000	Food Prep	Y	
American Airlines GSE Maint.(a)	11,000	Vehicle Service/Repair	Y	
American Airlines GSE Maint.(b)	2,000	Office	Y	
Existing FS#80/ARFF	14,000	Institutional	Y	
New ARFF	27,895			
LAPD Bomb Squad	5,760	Office	N	
LAWA PD Former Decision Cntr	1,750	Office/Vacant	N	
Mercury GSE Maintenance	2,000	Vehicle Service/Repair	N	
Evergreen GSE Maintenance	4,500	Vehicle Service/Repair	N	
DHL Freight	2,160	Office	N	
Qantas Maintenance Building	3,500	Office	N	

	7	8	9	10	11
Usage Factors	Unit	Usage (cubic feet)	Reference		
2	cubic ft/sq ft/month	288,000	1		
2	cubic ft/sq ft/month	36,000	1		
2.9	cubic ft/sq ft/month	2,366,400	2		
2.9	cubic ft/sq ft/month	382,800	3		
2	cubic ft/sq ft/month	48,000	1		
53.2	cubic feet / sq. ft.	744,800	4		
53.2	cubic feet / sq. ft.	1,484,014	4		

Total 5,350,014

Summary of References by Number

- 1 URBEMIS, Version 9.2.4, Natural Gas Usage Rate, Office
- 2 URBEMIS, Version 9.2.4, Natural Gas Usage Rate, Retail/Shopping
- 4 <http://www.eia.doe.gov/emeu/cbecs/pba99/publicorder/puborderconstable.html>

1	2	3	4	7	8	9	10	11
Facility	Building SF	Use	Electricity		Usage Factors	Unit	Usage (kWh)	Reference
LAWA Records Center (a)	12,000	Storage	Y		7.5	kWh / sq. ft.	90,000	1
LAWA Records Center (b)	1,500	Office	Y		16.8	kWh / sq. ft.	25,200	1
LAPD Bomb Squad	5,760	Office	Y		16.8	kWh / sq. ft.	96,768	1
SkyChefs Flight Kitchen	68,000	Food Prep	Y		45.7	kWh / sq. ft.	3,107,600	1
LAWA PD Former Decision Cntr	1,750	Office/Vacant	Y		16.8	kWh / sq. ft.	29,400	1
Mercury GSE Maintenance	2,000	Vehicle Service/Repair	Y		9.2	kWh / sq. ft.	18,400	2
Evergreen GSE Maintenance	4,500	Vehicle Service/Repair	Y		9.2	kWh / sq. ft.	41,400	2
American Airlines GSE Maint.(a)	11,000	Vehicle Service/Repair	Y		9.2	kWh / sq. ft.	101,200	2
American Airlines GSE Maint.(b)	2,000	Office	Y		16.8	kWh / sq. ft.	33,600	1
DHL Freight	2,160	Office	Y		16.8	kWh / sq. ft.	36,288	1
Qantas Maintenance Building	3,500	Office	Y		16.8	kWh / sq. ft.	58,800	1
Existing FS#80/ARFF	14,000	Institutional	Y		9	kWh / sq. ft.	126,000	3
New ARFF	27,895				9	kWh / sq. ft.	251,055	3

Total 4,015,711

Summary of References by Number

- 1 See "Electricity Usage Factors" spreadsheet
- 2 <http://www.eia.doe.gov/emeu/cbecs/pba99/service/serviceconstable.html#elec>
- 3 <http://www.eia.doe.gov/emeu/cbecs/pba99/publicorder/puborderconstable.html>

Released: Dec 2006

[http://www.eia.doe.gov/emeu/cbeecs/cbeecs2003/detailed\\_tables\\_2003/2003set10/2003excel/c20.xls](http://www.eia.doe.gov/emeu/cbeecs/cbeecs2003/detailed_tables_2003/2003set10/2003excel/c20.xls)

Next CBECS will be conducted in 2007

Climate Zone Map:

[http://www.eia.doe.gov/emeu/cbeecs/climate\\_zones.html](http://www.eia.doe.gov/emeu/cbeecs/climate_zones.html)

Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup>

	Electricity Energy Intensity (kWh/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Principal Building Activity					
Education .....	8.2	8.0	11.1	12.7	16.0
Food Sales .....	43.0	Q	Q	Q	Q
Food Service .....	29.3	30.6	Q	45.7	46.3
Health Care .....	20.6	23.3	19.2	23.7	27.6
Inpatient .....	23.7	27.7	23.3	28.2	34.0
Outpatient .....	16.7	17.4	13.7	13.4	Q
Lodging .....	10.1	15.9	Q	14.0	16.7
Retail (Other Than Mall).....	14.2	11.0	14.8	11.3	25.9
Office .....	13.9	18.2	17.1	16.8	19.2
Public Assembly .....	9.1	9.5	Q	19.7	17.0
Public Order and Safety .....	Q	Q	Q	Q	Q
Religious Worship .....	3.0	3.5	4.9	4.8	10.1
Service .....	10.6	9.6	Q	7.6	Q
Warehouse and Storage .....	7.0	9.6	7.9	7.5	5.0
Other .....	Q	24.6	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

<sup>a</sup> Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

<sup>b</sup> The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample that use electricity.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

CDD: See Cooling Degree-Days (CDD)

Heating Degree-Days (HDD): A measure of how cold a location was over a period of time, relative to a base temperature. In CBECS, the base temperature used is 65 degrees Fahrenheit, and the period of time is one year. The heating degree-day is the difference between that day's average temperature and 65 degrees if the daily average is less than 65; it is zero if the daily average temperature is greater than or equal to 65. Heating degree-days for a year are the sum of the daily heating degree-days for days that year.



	RON	AA Parking Lot
Poles	12	35
Fixtures	2	1
Rating	1,000	250
<b>Total Wattage</b>	<b>24,000</b>	<b>8,750</b>



	AA High Bay Parking Lot		Quantas Apron		
Poles	16	2	6	6	3
Fixtures	4	8	2	4	2
Rating	500	1,000	500	1,000	500
<b>Total Wattage</b>	<b>32,000</b>	<b>16,000</b>	<b>6,000</b>	<b>24,000</b>	<b>3,000</b>



Poles	4
Fixtures	4
Rating	1,000
<b>Total Wattage</b>	<b>16,000</b>

Assume 4,100 hours of operation per year  
<http://data.nextrionet.com/site/idsa/is052.pdf>

Baseline

Wattage	97,000
MWh	397.7

Existing Lights - Post Demolition

Wattage	16,000
MWh	65.6

RON - New Lights

Wattage	24,000
MWh	98.4

AA Parking Lot - New Lights

Wattage	8,750
MWh	35.875

Data Source:  
 Email from G. Siple, 15 August 2008.  
 AA Parking Lights: Email from A. Skidmore, 28 August 2008.

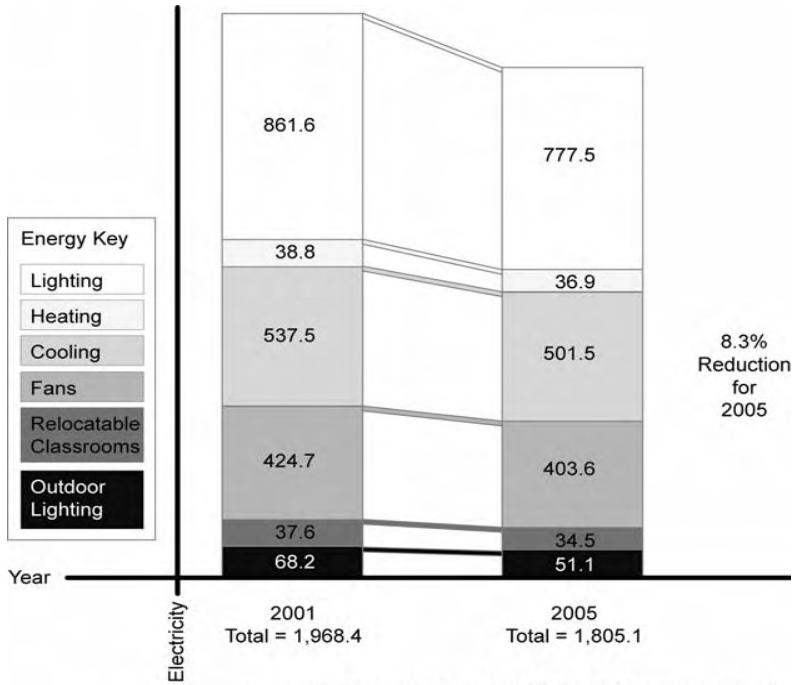
Source	Electricity		
	2001	2005	% Reduction
Lighting	861.6	777.5	-9.8%
Heating	38.8	36.9	-4.9%
Cooling	537.5	501.5	-6.7%
Fans	424.7	403.6	-5.0%
Relocatable Classrooms	37.6	34.5	-8.2%
Outdoor Lighting	68.2	51.1	-25.1%
<b>Total</b>	<b>1968.4</b>	<b>1805.1</b>	<b>-8.3%</b>

LAWA Credit	
Year	Elect.
2001	1930.8
2005	1770.6
<b>% Reduction</b>	<b>8.3%</b>

(minus Relocatable Classrooms)

LEED Credit (Energy Optimization)  
17.5%

**Total Credit 9.2%**



Source: CEC Impact Analysis 2005 Update Table 2 (P400-03-014)

Credit 1  
1-10 points

## Optimize Energy Performance

Two (2) points mandatory for all LEED for New Construction projects registered after June 26, 2007

### Intent

Achieve increasing levels of energy performance above the baseline in the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use.

### Requirements

Select one of the four compliance path options described below. Project teams documenting achievement using any of these options are assumed to be in compliance with EA Prerequisite 2.

*NOTE: LEED for New Construction projects registered after June 26<sup>th</sup>, 2007 are required to achieve at least two (2) points under EA1.*

### OPTION 1 — WHOLE BUILDING ENERGY SIMULATION (1-10 Points)

Demonstrate a percentage improvement in the proposed building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2004 by a whole building project simulation using the Building Performance Rating Method in Appendix G of the Standard. The minimum energy cost savings percentage for each point threshold is as follows:

New Buildings	Existing Building Renovations	Points
10.5%	3.5%	1
14%	7%	2
17.5%	10.5%	3
21%	14%	4
24.5%	17.5%	5
28%	21%	6
31.5%	24.5%	7
35%	28%	8
38.5%	31.5%	9
42%	35%	10





Appendix F  
LAX Crossfield Taxiway Project Draft EIR

**Biological Constraints Survey**

September 2008

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045

*Prepared by:*

**BonTerra Consulting**  
151 Kalmus Drive, Suite E-200  
Costa Mesa, CA 92626



September 2, 2008

Ms. Robin Ijams  
Camp Dresser and McKee Inc.  
111 Academy, Suite 150  
Irvine, California 92617

**VIA EMAIL AND MAIL**  
**ijamsre@cdm.com**

**Subject: Revised Biological Constraints Survey for the Los Angeles International Airport Crossfield Taxiway Project in the City of Los Angeles, Los Angeles County, California**

Dear Ms. Ijams:

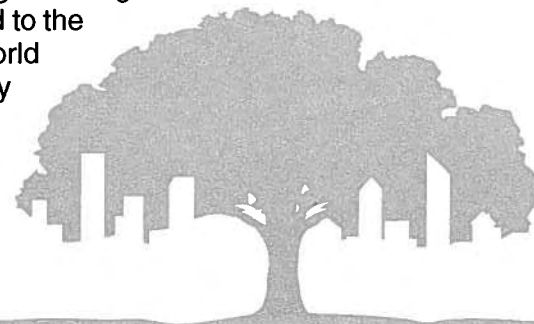
This Letter Report summarizes the findings of a biological constraints survey for two areas associated with the Los Angeles International Airport (LAX) Crossfield Taxiway Project located in the City of Los Angeles, Los Angeles County, California. These two areas include the American Airlines employee parking lot relocation site, and proposed staging area (hereafter referred to as the "project site"). BonTerra Consulting Senior Biologist Stacie Tennant and Ecologist Lindsay Messett conducted a general plant and wildlife survey on July 31, 2008, to document existing biological resources and map the vegetation for each of the two areas.

Prior to the survey, the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Vascular Plants of California (CNPS 2008) and the California Department of Fish and Game's (CDFG) California Natural Diversity Data Base (CNDDDB) (CDFG 2008a) were reviewed to identify special status plants, wildlife, and habitats known to occur in the vicinity of the project site. Database searches included the U.S. Geological Survey (USGS) Inglewood and Venice 7.5-minute quadrangles.

## **PROJECT LOCATION AND DESCRIPTION**

The project site is located in the southwestern portion of the City of Los Angeles in Los Angeles County, California (Exhibit 1). The site is located within LAX, which is bordered by Westchester Parkway to the north, Imperial Highway to the south, Pershing Drive to the west, and Sepulveda Boulevard to the east (Exhibit 2). The proposed project would occur within the central portion of the airfield at LAX, west of Tom Bradley International Terminal and between the north runway complex and the south runway complex. Specifically, the proposed project consists of the construction of the American Airlines employee parking lot and continuous use of an already existing staging area as described below.

American Airlines employees, which include approximately 20-80 aircraft mechanics (depending on the shift) that work in the immediate area, and American Airlines flight crews that operate out of the Central Terminal Area, currently use the existing parking lot located directly west of the High-Bay Hangar. The project proposes to establish a replacement parking lot through the improvement and expansion of an existing parking area located to the west, immediately southwest of where Taxiway AA crosses World Way West. The eastern portion of the site is paved and mostly vacant with the exception of equipment associated with an existing groundwater remediation system (i.e., subsurface well heads spaced evenly throughout the area and a free product



recovery compound at the center of the site), and the western portion of the site is unpaved and mostly vacant with the exception of well heads associated with the groundwater remediation system. Development of the parking lot would include some modifications to the groundwater remediation system, such as system pipeline and well head modifications as necessary to allow the system to continue to operate. Access in to and out of the replacement parking lot and the existing parking lot would be via World Way West.

The proposed construction staging area is the same as currently used for the South Airfield Improvements Project (SAIP). During the construction period for the project, ground traffic (cars, trucks, and construction equipment) would enter and exit the project site from the existing SAIP construction staging area. The SAIP contractor parking area, located to the east of the project site (on a site north of LAX Parking Lot B on La Cienega Boulevard), would be used for project Workers, with a shuttle to transport the Workers between the parking area and the job site. Similar to the SAIP, delivery and haul routes for the project would occur on the perimeter of the airport and along Imperial Highway, Pershing Drive, Westchester Parkway, and Aviation Boulevard.

## **SURVEY RESULTS**

### **Vegetation Types and Other Areas**

No native vegetation types are present on the project site. The American Airlines employee parking lot relocation site consists of ruderal and developed areas (Exhibit 3). The ruderal area undergoes regular operations maintenance and is continuously mowed. Ruderal vegetation was dominated by black mustard (*Brassica nigra*), telegraph weed (*Heterotheca grandiflora*), common plantain (*Plantago major*), common horseweed (*Conyza canadensis*), shortpod mustard (*Hirschfeldia incana*), wild oat (*Avena* sp.), and foxtail chess (*Bromus madritensis* ssp. *rubens*). The developed area consists of the roads, existing parking lot, and support facilities.

The proposed staging area consists of a small amount of ruderal vegetation along the eastern boundary and developed/disturbed areas in the remainder of the site (Exhibit 3). The developed/disturbed areas consist of parking lots, support facilities, roads, and construction activities, which include the stockpiling of materials. Exhibit 4 presents representative site photographs.

### **Wildlife Habitat**

Vegetation on the project site provides very little habitat for native wildlife species. Wildlife species observed or expected to occur on the project site include species associated with urban habitats. The only reptile species observed was the western fence lizard (*Sceloporus occidentalis*). Common bird species observed or expected to occur include the rock pigeon (*Columba livia*), American crow (*Corvus brachyrhynchos*), northern mockingbird (*Mimus polyglottos*), mourning dove (*Zenaida macroura*), house finch (*Carpodacus mexicanus*), European starling (*Sturnus vulgaris*), and house sparrow (*Passer domesticus*). Mammal species observed or expected to occur on the project site include California ground squirrel (*Spermophilus beecheyi*) and Botta's pocket gopher (*Thomomys bottae*).

### **Special Status Habitats**

#### ***Jurisdictional Areas***

Drainages, which may include "waters of the U.S.," are protected under Section 404 of the Clean Water Act and are under the jurisdiction of the U.S. Army Corps of Engineers. "Waters of the U.S." include navigable coastal and inland waters, lakes, rivers, streams, and their tributaries; interstate

waters and their tributaries; wetlands adjacent to such waters; intermittent streams; and other waters that could affect interstate commerce. In addition, if drainages on the project site meet the criteria established by Section 1600 of the *California Fish and Game Code*, the CDFG may require a Streambed Alteration Agreement prior to any modification of the bed, bank, or channel of streambeds on the project site. There are no jurisdictional areas located on the project site.

### **Special Status Plant and Wildlife Species**

Plants or wildlife may be considered “special status” due to declining populations, vulnerability to habitat change, or restricted distributions. Certain special status species have been listed as Threatened or Endangered under the California and/or Federal Endangered Species Acts (CESA and/or FESA, respectively).

#### ***Special Status Plants***

Several special status plant species are known to occur or have occurred in the project vicinity based on the results of the literature review previously described. Suitable habitat is not present on the project site for any Threatened or Endangered plant species; therefore, none of these species are expected to occur on the project site.

In addition, the CNDDDB has reported that several CNPS List 1B and List 2 species have occurred in the vicinity of the project site. Of these, only the southern tarplant (*Centromadia parryi* ssp. *australis*) has potential to occur on the project site, and this species was observed on the American Airlines employee parking lot relocation site. Although not formally listed by the resource agencies, this species may be considered a constraint on development per Section 15380 of the California Environmental Quality Act (CEQA). This species is discussed in more detail below.

CNPS List 3 and 4 species are not considered constraints on development; impacts on these species are typically considered less than significant and do not require mitigation.

#### **Southern Tarplant**

Southern tarplant is a CNPS List 1B.1 species and typically blooms from May to November (CNPS 2008). This annual herb occurs in disturbed areas in the margins of marshes and swamps, valley and foothill grasslands, and vernal pools below 1500 feet mean sea level. It occurs in Los Angeles, Orange, Santa Barbara, San Diego, and Ventura counties.

Southern tarplant was observed on the project site during the July 31 field survey. On August 6, 2008, BonTerra Botanist Jeff Crain conducted a focused survey for this species, which confirmed the presence of southern tarplant on the project site. Mr. Crain observed approximately 29 individuals (0.14 acre) within the eastern portion of the employee parking lot project site. Associated plant species found with the southern tarplant include fascicled tarweed (*Deinandra fasciculata*), riggut brome (*Bromus diandrus*), and dove weed (*Eremocarpus setigerus*). Exhibit 3 shows the location of the individuals observed within the project site.

#### ***Special Status Wildlife***

Several special status wildlife species are known to occur in the project vicinity based on the literature review previously described above; however, only Threatened or Endangered species typically present constraints to development. Of these species, only the El Segundo blue butterfly (*Euphilotes battoides allyni*) has the potential to occur occasionally on the project site and is discussed in more detail below.

### El Segundo blue butterfly

The El Segundo blue butterfly is federally listed as Endangered and occurs in four, disconnected locations in southwestern, coastal Los Angeles County. It is endemic to coastal sand dunes that contain suitable conditions for early stages; larval food; adult nectar sources; and adult feeding, perching, and courtship areas. Specifically, it is tied to dune areas which contain coast buckwheat (*Eriogonum parvifolium*). This species has one generation per year, and adults fly from mid-June through the end of August. Urban development and invasion of exotic plant species have resulted in the significant loss of habitat for this species.

The El Segundo blue butterfly has the potential to occur occasionally on the project site due to the close proximity of the approximate 300-acre El Segundo blue butterfly habitat preserve, which is adjacent to the western portion of the project site on the west side of Pershing Drive. These individuals would be considered uncommon vagrants due to the fact that the project site does not support the suitable dune habitat, which the El Segundo blue butterfly requires for survival. Additionally, the project site does not contain any coast buckwheat, which is the host plant for the larval and adult life forms of the El Segundo blue butterfly. Therefore, the proposed project is not expected to impact this species.

### **CONCLUSIONS/RECOMMENDATIONS**

A special status plant mitigation program should be developed and submitted to the appropriate agencies for review because southern tarplant was observed within the project site and this species is a CNPS List 1B.1 species. Impacts on this species would be considered significant. The loss of the southern tarplant will be mitigated through seed collection and seeding into a suitable mitigation site within undeveloped property owned by Los Angeles World Airports (LAWA), determined based on habitat, soil type, and other relevant conditions. A qualified Seed Collector will monitor the tarplant phenology to determine the appropriate timing for seed collection. Tarplant seed will be collected from all tarplants within the impact area, which will be delineated in the field with lath and flagging by a Qualified Biologist. The Biologist will ensure that seed will only be collected from plants that will be impacted by the proposed project. Upon completion of seed collection, the seed collector will clean the seeds to prepare for the seeding effort.

A mitigation plan will be developed at a level of detail necessary for successful program implementation by a Landscape Contractor. The detailed program will contain the following items:

*Responsibilities and qualifications of the personnel to implement and supervise the plan.* The plan will specify the responsibilities and qualifications of the personnel who will supervise and implement the mitigation plan, including the Landowner, Technical Specialists, and Maintenance Personnel.

*Site selection.* The site for the mitigation will be determined in coordination with the Project Applicant and the Lead Agency, as appropriate, and will be located in a suitable on-site area. The appropriate site will have suitable hydrology, soils, and any other factors necessary for the establishment of the tarplant.

*Site preparation and planting implementation.* The plan will include specifications for seed collection and storage and guidelines on site preparation. The guidelines will contain specifications for (1) existing native species protection; (2) trash and weed removal; (3) soil treatments (e.g., imprinting and decompacting); (4) temporary irrigation installation as needed; (5) erosion control measures (e.g., rice or willow wattles); and (6) seed application.

*Schedule.* A schedule will be developed, which includes planting, to occur in late fall and early winter (between October and January 30).

*Maintenance plan/guidelines.* A three to five year maintenance plan will include (1) weed control; (2) herbivory control; (3) trash removal; (4) irrigation system maintenance; (5) maintenance training; and (6) replacement seeding, if necessary.

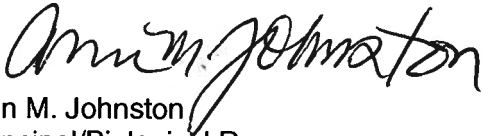
*Monitoring plan.* The monitoring plan will include criteria determined in consultation with the Lead Agency. This plan may include qualitative and quantitative monitoring. Qualitative monitoring includes site visits at regular intervals (i.e. monthly, quarterly, etc.) to determine the overall general performance of the site and maintenance needs. Quantitative monitoring is conducted on an annual basis and includes data collection specific to the performance standards established in the monitoring plan.

*Long-term preservation.* Long-term preservation of the site will also be outlined in the conceptual mitigation plan to ensure that future development does not impact the mitigation site.

Please contact Stacie Tennant at (714) 444-9199 if you have any questions or comments.

Sincerely,

BONTERRA CONSULTING



Ann M. Johnston  
Principal/Biological Resources



Stacie A. Tennant  
Senior Project Manager/Biologist

Enclosures: Exhibits 1, 2, 3, and 4

cc: Anthony Skidmore (SkidmoreAJ@cdm.com)  
Julie Gaa (juliegaa@cox.net)

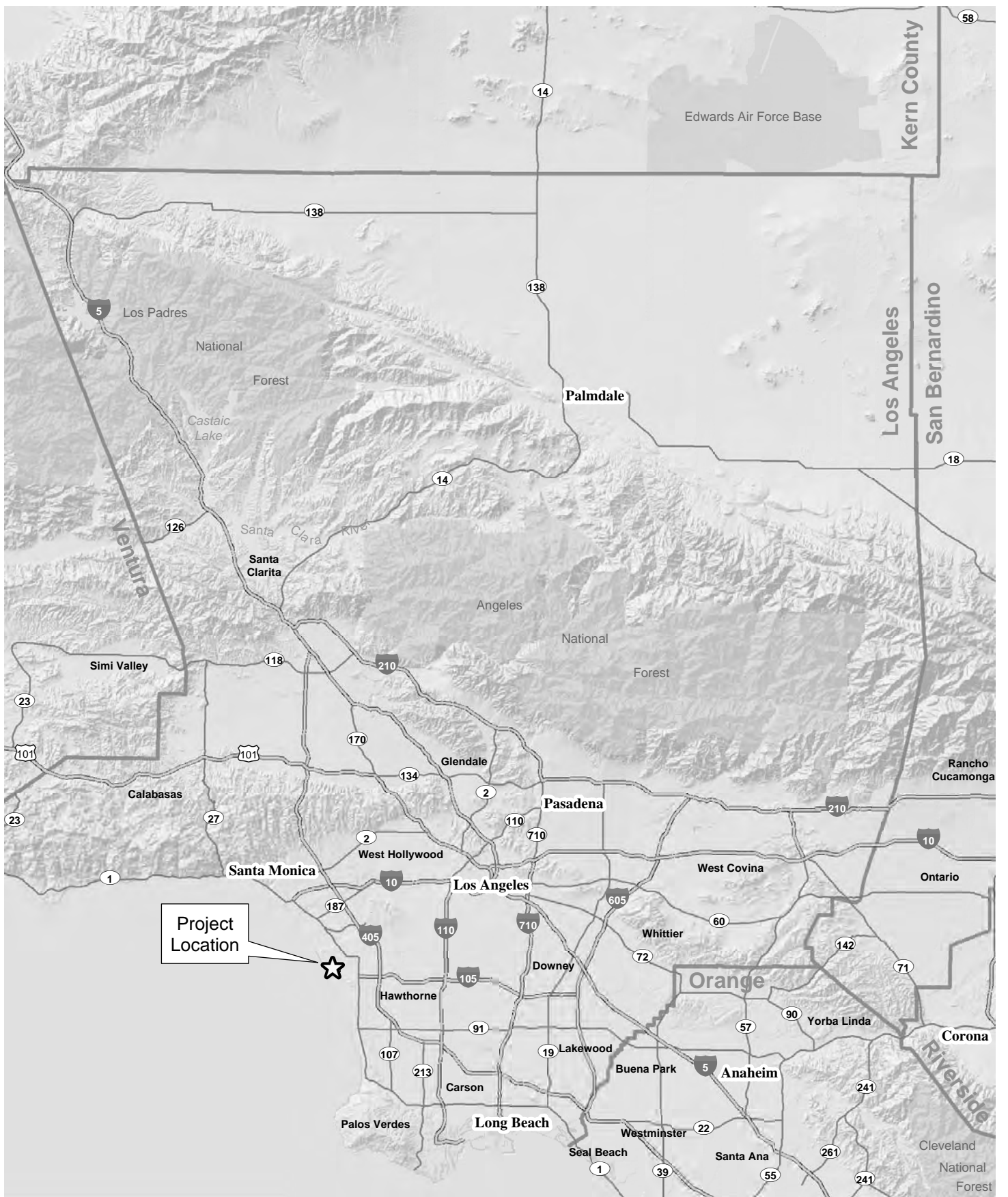
## REFERENCES

- California Department of Fish and Game (CDFG). 2008a (May). California Natural Diversity (RareFind) Data Base. Records of Occurrence for the USGS Inglewood and Venice 7.5-minute quadrangles. Sacramento, CA: CDFG, Natural Heritage Division.
- . 2008b (May). *List of California Terrestrial Natural Communities Recognized by the Natural Diversity Data Base*. Sacramento, CA: CDFG, Natural Heritage Division.
- . 2008c. *Special Animals*. Sacramento, CA: CDFG, Natural Heritage Division.
- . 2008d. *Special Vascular Plants, Bryophytes, and Lichens List*. Sacramento, CA: CDFG, Natural Heritage Division.

Ms. Robin Ijams  
September 2, 2008  
Page 6

California Native Plant Society (CNPS). July 2008. Electronic Inventory of Rare and Endangered Vascular Plants of California. Records of Occurrence for the USGS Inglewood and Venice 7.5-minute quadrangles. Sacramento, CA: CNPS. <http://www.cnps.org/inventory>.

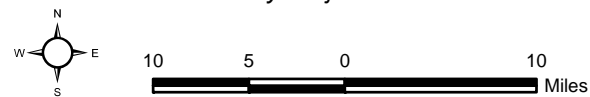




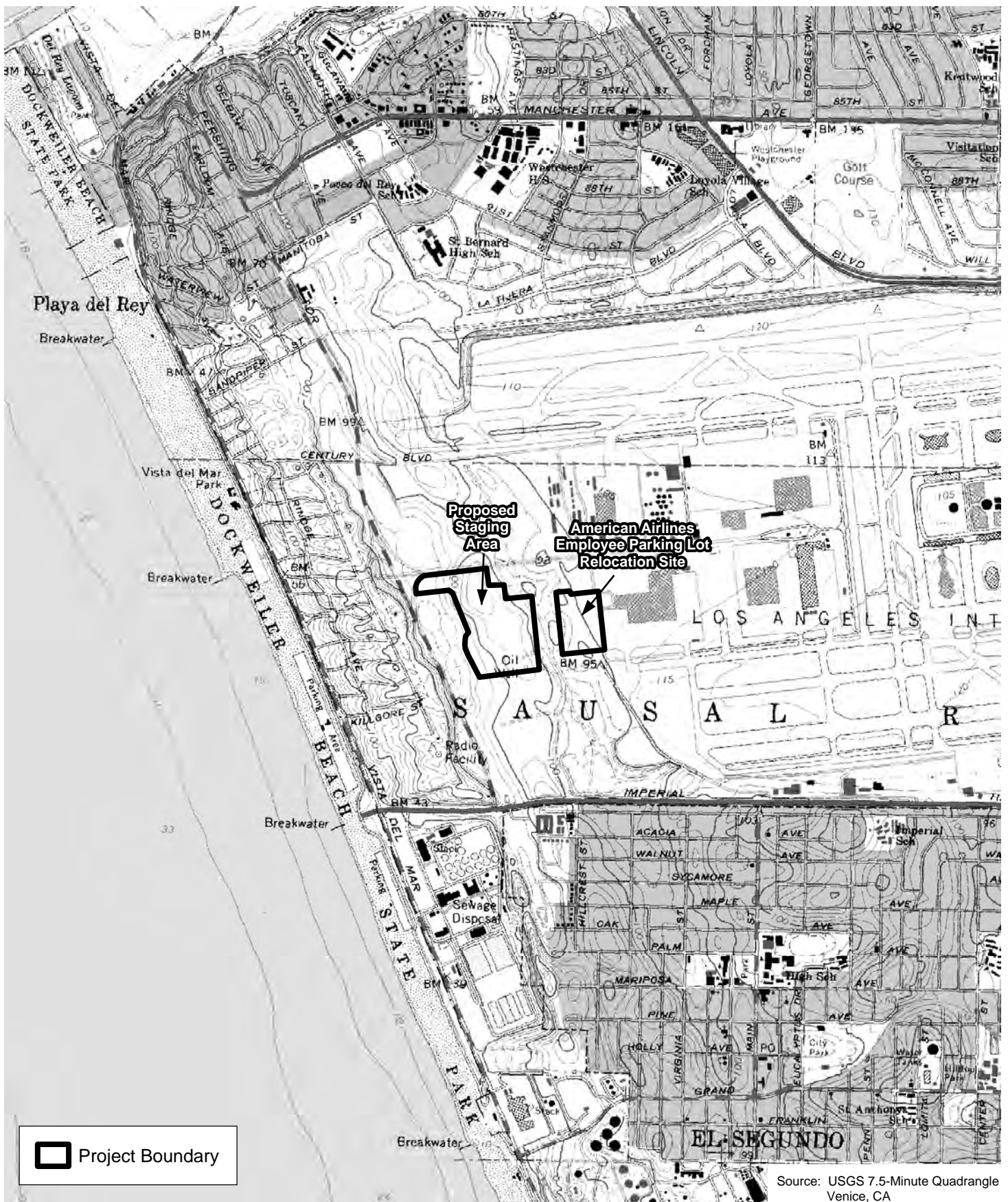
### Regional Location

Exhibit 1

LAX Crossfield Taxiway Project







## Local Vicinity

LAX Crossfield Taxiway Project

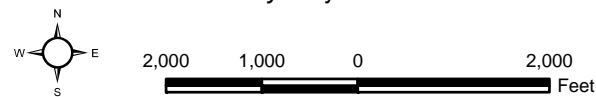


Exhibit 2

**Bonterra**  
CONSULTING





## Biological Resources

LAX Crossfield Taxiway Project

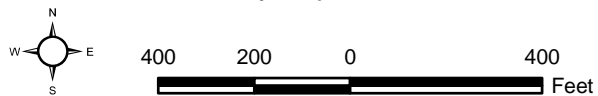


Exhibit 3







Representative site photograph depicting disturbed/developed areas in the northwestern portion of the proposed staging area.



Representative site photograph depicting disturbed areas in the southwestern portion of the proposed staging area.



Representative site photograph depicting ruderal vegetation located in the eastern portion of the proposed staging area.



Representative site photograph depicting ruderal vegetation located in the western portion of the American Airlines employee parking lot relocation site.

## Site Photographs

LAX Crossfield Taxiway Project

Exhibit 4

**Benterra**  
CONSULTING





Appendix G  
LAX Crossfield Taxiway Project Draft EIR

**Hydrology/Water Quality Materials**

September 2008

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045



Appendix G-1  
LAX Crossfield Taxiway Project Draft EIR

**Drainage Runoff Calculations**

September 2008

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045

*Prepared by:*

**HNTB**  
6151 West Century Boulevard, Suite 1200  
Los Angeles, CA 90045



**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	4	2.909	A-NE1.3	2.4	1.00	0.543	0.900	6.31

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	3.92	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	3.92		
Assumed T <sub>c</sub> (MIN)	4		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	6.31
		Q into Tributary	0
			6.31

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	158	116.1	114.3	0.01158	2.909881	10	1.00	0.900	2.618	3.92

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (min)	Sum Time (min)			
		0.00	4.68				0.00			

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	19	1.399	A-NE1.4	3.1	0.71	0.266	0.716	3.14

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	19.14	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	19.14		
Assumed T <sub>c</sub> (MIN)	19		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	3.14
		Q into Tributary	0
			3.14

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	94.75	117.9	116.7	0.01309	1.39852	10	0.71	0.716	1.002	4.09
	0.060	200.77	116.7	113.9	0.014	1.39852	10	0.71	0.716	1.002	15.05

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (min)	Sum Time (min)			
		0.00	4.68				0.00			

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	12	1.736	A-NE2.3	3.2	0.84	0.337	0.810	4.54

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.96	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.96		
Assumed T <sub>c</sub> (min)	12		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.54
		Q into Tributary	0
			4.54

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	257.2	117.0	114.9	0.00816	1.73568	10	0.84	0.810	1.406	7.49
	0.060	42.12	114.9	114.0	0.02232	1.73568	10	0.84	0.810	1.406	4.48
Field Data Unavailable - Data Estimated											
11.96											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			
			4.68	4.68						0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	5	2.619	A-NE2.4	3.2	0.79	0.499	0.816	6.88

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	4.86	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.86		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	6.88
		Q into Tributary	0
			6.88

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.4

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	234.17	119.1	115.3	0.01631	2.61919	10	0.79	0.816	2.137	4.86
Field Data Unavailable - Data Estimated											
4.86											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			
			4.68	4.68						0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.1

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-NE3.1	5.7	1.00	0.411	0.900	10.83

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.23	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.23		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Q From Tributary	10.83
		Q into Tributary	0
			10.83

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	367	118.8	115.8	0.00817	2.10006	10	1.00	0.900	1.890	8.23

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-NE3.2	6.2	1.00	0.411	0.900	11.79

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.15	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.15		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Q From Tributary	11.79
		Q into Tributary	0
			11.79

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	363	118.8	115.8	0.00826	2.10006	10	1.00	0.900	1.890	8.15

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	9	1.987	A-NE3.3	5.6	1.00	0.388	0.900	10.09

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.92	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.92		
Assumed T <sub>c</sub> (min)	9		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	10.09
+		Q into Tributary	0
			10.09

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	342	117.8	115.8	0.00585	1.98696	10	1.00	0.900	1.788	8.92

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-NW-TN	6.3	1.00	0.411	0.900	11.91

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.79	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.79		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	11.91
+		Q into Tributary	0
			11.91

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	681	108.0	85.0	0.03373	2.10006	10	1.00	0.900	1.890	7.79

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time



**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	25	1.229	A-NW1.3	10.8	1.00	0.218	0.900	11.96

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	24.71	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	24.71		
Assumed T <sub>c</sub> (min)	25		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	11.96
+		Q into Tributary	0
			11.96

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
1	0.014	1098	116.8	112.6	0.00383	1.22928	10	1.00	0.900	1.106	24.71

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	28	1.166	A-NW1.4	3.9	0.80	0.200	0.760	3.45

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	27.92	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	27.92		
Assumed T <sub>c</sub> (min)	28		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	3.45
+		Q into Tributary	0
			3.45

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
1	0.014	96.23	115.5	115.6	0.00966	1.16552	10	0.80	0.760	0.886	4.75
	0.060	286.45	115.6	113.3	0.00796	1.16552	10	0.80	0.760	0.886	23.18

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	14	1.614	A-NW2.3	3.8	0.80	0.310	0.782	4.80

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	13.69	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	13.69		
Assumed T <sub>c</sub> (min)	14		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.80
		Q into Tributary	0
			4.80

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	239.63	113.9	111.8	0.00897	1.61437	10	0.80	0.782	1.263	7.28
	0.060	55.27	111.8	111.1	0.01339	1.61437	10	0.80	0.782	1.263	6.41
Field Data Unavailable - Data Estimated											13.69

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>c</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			
				4.68						0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	5	2.619	A-NW2.4	2.1	1.00	0.499	0.900	4.83

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	4.87	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.87		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.83
		Q into Tributary	0
			4.83

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	204.61	114.7	112.5	0.0109	2.61919	10	1.00	0.900	2.357	4.87
Field Data Unavailable - Data Estimated											4.87

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>c</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			
				4.68						0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	13	1.672	A-SE1.3	9.4	1.00	0.324	0.900	14.08

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	12.82	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	12.82		
Assumed T <sub>c</sub> (min)	13		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.08
		Q into Tributary	0
			14.08

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = \frac{(0.94 \cdot L \cdot 0.6 \cdot N^{0.5})}{((C_d \cdot I)^{0.5} \cdot S^{0.5})}$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	745	122.0	114.3	0.0104	1.67159	10	1.00	0.900	1.504	12.82

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1      Similar cases: A-NE2.1, A-SW2.1, A-NW2.1

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	9	1.987	A-SE2.1	2.6	0.60	0.388	0.695	3.56

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.87	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.87		
Assumed T <sub>c</sub> (min)	9		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	3.56
		Q into Tributary	0
			3.56

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = \frac{(0.94 \cdot L \cdot 0.6 \cdot N^{0.5})}{((C_d \cdot I)^{0.5} \cdot S^{0.5})}$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	90.84	117.0	115.7	0.01398	1.98696	10	0.60	0.695	1.381	3.44
	0.060	66.25	115.7	113.8	0.02958	1.98696	10	0.60	0.695	1.381	5.44

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2 Similar cases: A-SW2.2, A-NE2.2, A-NW2.2

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	9	1.987	A-SE2.2	2.4	0.73	0.388	0.762	3.66

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.52	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.52		
Assumed T <sub>c</sub> (min)	9		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
<b>Velocity</b>			
	Required Q	0.00	ft/sec
Q From Tributary	3.66		
Q Into Tributary	0		
	3.66		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
1	0.014	90	117.0	115.7	0.01411	1.98696	10	0.73	0.762	1.513	3.28
	0.060	66.12	115.7	113.8	0.02964	1.98696	10	0.73	0.762	1.513	5.23
Field Data Unavailable - Data Estimated											
8.52											

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
0.00						

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> Q/S <sup>0.5</sup>	Dia (in)
		Top	Bottom						
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.3

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	30	1.128	A-SE2.3	6.3	0.73	0.200	0.711	5.04

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	39.45	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	39.45		
Assumed T <sub>c</sub> (min)	30		
Validity	Try Again	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
<b>Velocity</b>			
	Required Q	0.00	ft/sec
Q From Tributary	FALSE		
Q Into Tributary	0		
	0.00		

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
1	0.014	150.59	122.9	121.2	0.01109	1.12833	10	0.73	0.711	0.802	6.20
	0.060	604.45	121.2	113.9	0.01214	1.12833	10	0.73	0.711	0.802	33.25
Field Data Unavailable - Data Estimated											
39.45											

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
0.00						

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> Q/S <sup>0.5</sup>	Dia (in)
		Top	Bottom						
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-SE2.3

**LOT OR OVERLAND FLOW:** Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.75}) / ((C_p \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
1	0.014	150.59	122.9	121.2	0.01109	1.28512	10	0.73	0.720	0.926	5.85
	0.060	604.45	121.2	113.9	0.01214	1.28512	10	0.73	0.720	0.926	31.40
											37.25

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
		0.00	Q <sub>ult</sub>	V <sub>mean</sub> 4.68	%Q	V <sub>mean</sub>	V <sub>mean</sub>	Travel Time (min)	Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-SE3.1

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10  
C<sub>d</sub> = (0.9\*Imp)+(1.0-imp)\*C<sub>u</sub> If C<sub>d</sub><C<sub>u</sub> C<sub>d</sub> = C<sub>u</sub>

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-SE3.1	4.2	1.00	0.411	0.900	8.01

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.21	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.21		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	Required Q 0.00 ft/sec
Q From Tributary	8.01		
Q into Tributary	0		
	8.01		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.2 Similar cases: A-SE1.2, A-SE1.1, A-NE1.1, A-NE1.2, A-SW1.2, A-SW1.1, A-NW1.1, A-NW1.2

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10  
C<sub>d</sub> = (0.9\*Imp)+(1.0-imp)\*C<sub>u</sub> If C<sub>d</sub><C<sub>u</sub> C<sub>d</sub> = C<sub>u</sub>

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-SE3.2	4.5	1.00	0.411	0.900	8.51

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.17	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.17		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	Required Q 0.00 ft/sec
Q From Tributary	8.51		
Q into Tributary	0		
	8.51		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-SE3.2

**LOT OR OVERLAND FLOW:** Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.75}) / ((C_p \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
1	0.014	362	118.8	115.8	0.00815	2.10006	10	1.00	0.900	1.890	8.17

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
		0.00	Q <sub>ult</sub>	V <sub>mean</sub> 4.68	%Q	V <sub>mean</sub>	V <sub>mean</sub>	Travel Time (min)	Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	16	1.516	A-SE3.3	9.3	1.00	0.297	0.900	12.68

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	16.11	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	16.11		
Assumed T <sub>c</sub> (min)	16		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	12.68
		Q into Tributary	0
			12.68

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	936.91	124.2	116.0	0.00875	1.51617	10	1.00	0.900	1.365	16.11

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	6	2.404	A-SE3.4	1.1	1.00	0.468	0.900	2.34

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	5.91	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	5.91		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	2.34
		Q into Tributary	0
			2.34

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	219.02	124.1	122.5	0.00731	2.4041	10	1.00	0.900	2.164	5.91

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	15	1.563	A-SW1.3	8.8	1.00	0.310	0.900	12.36

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	14.97	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	14.97		
Assumed T <sub>c</sub> (min)	15		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	12.36
+		Q into Tributary	0
			12.36

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	842	120.3	113.0	0.00867	1.56296	10	1.00	0.900	1.407	14.97

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.100	A-SW1.4	2.8	1.00	0.411	0.900	5.24

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.49	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.49		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.24
+		Q into Tributary	0
			5.24

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	396	121.0	117.6	0.00859	2.10006	10	1.00	0.900	1.890	8.49

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	13	1.672	A-SW2.3	5.7	0.88	0.324	0.831	7.87

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	12.54	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	12.54		
Assumed T <sub>c</sub> (min)	13		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	7.87
+		Q into Tributary	0
			7.87

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	234.78	120.3	116.1	0.01806	1.67159	10	0.88	0.831	1.389	5.61
	0.060	85.47	116.1	114.2	0.02176	1.67159	10	0.88	0.831	1.389	6.93

Field Data Unavailable - Data Estimated      12.54

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

Rainfall Zone:      Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	6	2.404	A-SW3.1	4.1	1.00	0.468	0.900	8.76

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	6.37	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	6.37		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	8.76
+		Q into Tributary	0
			8.76

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	252	112.9	111.0	0.00754	2.4041	10	1.00	0.900	2.164	6.37

Field Data Unavailable - Data Estimated      6.37

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time



**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

Rainfall Zone: Frequency: 25 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	18	1.435	A-SW3.2	12.7	1.00	0.266	0.900	16.36

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	18.47	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	18.47		
Assumed T <sub>c</sub> (min)	18		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	16.36
		Q into Tributary	0
			16.36

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	1173	120.0	109.0	0.00938	1.43452	10	1.00	0.900	1.291	18.47

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>50</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	4	3.313	A-NE1.3	2.4	1.00	0.598	0.900	7.19

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	3.72	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	3.72		
Assumed T <sub>c</sub> (min)	4		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	7.19
		Q into Tributary	0
			7.19

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>50</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	158	116.1	114.3	0.01158	3.313	10	1.00	0.900	2.982	3.72

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	18	1.634	A-NE1.4	3.1	0.71	0.324	0.733	3.76

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	17.82	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	17.82		
Assumed T <sub>c</sub> (min)	18		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	3.76
		Q into Tributary	0
			3.76

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	94.75	117.9	116.7	0.01309	1.63385	10	0.71	0.733	1.197	3.81
	0.060	200.77	116.7	113.9	0.014	1.63385	10	0.71	0.733	1.197	14.01

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00
			4.68							

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	11	2.059	A-NE2.3	3.2	0.84	0.400	0.820	5.45

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.12	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.12		
Assumed T <sub>c</sub> (min)	11		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.45
		Q into Tributary	0
			5.45

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	257.2	117.0	114.9	0.00816	2.05937	10	0.84	0.820	1.689	6.96
	0.060	42.12	114.9	114.0	0.02232	2.05937	10	0.84	0.820	1.689	4.16

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00
			4.68							

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-NE2.4

**LOT OR OVERLAND FLOW:** Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.75}) / ((C_p \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
1	0.014	234.17	119.1	115.3	0.01631	2.98314	10	0.79	0.827	2.466	4.59

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
0	0	0									0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							

Trial No.	K	Q <sub>ult</sub>	V <sub>mean</sub> (ft/s)	%Q	V <sub>mean</sub> (fps)	Travel Time (min)	Sum Time (min)
		0.00	4.68				0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-NE2.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10  
C<sub>d</sub> = (0.9\*Imp)<sup>0.4</sup> + ((1.0-Imp)<sup>0.4</sup> \* C<sub>d</sub>) If C<sub>d</sub> < C<sub>u</sub>, C<sub>d</sub> = C<sub>u</sub>

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	5	2.983	A-NE2.4	3.2	0.79	0.551	0.827	7.94

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	4.59	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.59		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	0.00 ft/sec
		Required Q	7.94
+	Q From Tributary		0
	Q into Tributary		7.94

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-NE3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10  
C<sub>d</sub> = (0.9\*Imp)<sup>0.4</sup> + ((1.0-Imp)<sup>0.4</sup> \* C<sub>d</sub>) If C<sub>d</sub> < C<sub>u</sub>, C<sub>d</sub> = C<sub>u</sub>

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.1	5.7	1.00	0.468	0.900	12.33

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.81	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.81		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	0.00 ft/sec
		Required Q	12.33
+	Q From Tributary		0
	Q into Tributary		12.33

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan  
Subarea: A-NE3.1

**LOT OR OVERLAND FLOW:** Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.75}) / ((C_p \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
1	0.014	367	118.8	115.8	0.00817	2.39167	10	1.00	0.900	2.153	7.81

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
0	0	0									0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							

Trial No.	K	Q <sub>ult</sub>	V <sub>mean</sub> (ft/s)	%Q	V <sub>mean</sub> (fps)	Travel Time (min)	Sum Time (min)
		0.00	4.68				0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.2	6.2	1.00	0.468	0.900	13.43

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.73	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.73		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid		
<b>Recommended Pipe Size</b>			
		0.00 dia.	
<b>Velocity</b>			
	Required Q	0.00 ft/sec	
+	Q From Tributary	13.43	
	Q into Tributary	0	
		13.43	

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	363	118.8	115.8	0.00826	2.39167	10	1.00	0.900	2.153	7.73

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.3	5.6	1.00	0.468	0.900	12.14

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.28	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.28		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid		
<b>Recommended Pipe Size</b>			
		0.00 dia.	
<b>Velocity</b>			
	Required Q	0.00 ft/sec	
+	Q From Tributary	12.14	
	Q into Tributary	0	
		12.14	

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	342	117.8	115.8	0.00585	2.39167	10	1.00	0.900	2.153	8.28

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	23	1.456	A-NW1.3	10.8	1.00	0.282	0.900	14.17

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	23.09	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	23.09		
Assumed T <sub>c</sub> (min)	23		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.17
		Q into Tributary	0
			14.17

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
1	0.014	1098	116.8	112.6	0.00383	1.45605	10	1.00	0.900	1.310	23.09

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		
		0.00	4.68				0.00		

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	26	1.375	A-NW1.4	3.9	0.80	0.251	0.770	4.12

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	26.00	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	26.00		
Assumed T <sub>c</sub> (min)	26		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.12
		Q into Tributary	0
			4.12

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
1	0.014	96.23	115.6	115.6	0.00966	1.37452	10	0.80	0.770	1.059	4.42
	0.060	286.45	115.6	113.3	0.00796	1.37452	10	0.80	0.770	1.059	21.58

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		
		0.00	4.68				0.00		

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	13	1.904	A-NW2.3	3.8	0.80	0.375	0.795	5.75

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	12.73	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	12.73		
Assumed T <sub>c</sub> (min)	13		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.75
+		Q into Tributary	0
			5.75

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	239.63	113.9	111.8	0.00897	1.90386	10	0.80	0.795	1.514	6.77
	0.060	55.27	111.8	111.1	0.01339	1.90386	10	0.80	0.795	1.514	5.96

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>mean</sub>	%Q	V <sub>mean</sub>	Travel Time (sec)			0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	5	2.983	A-NW2.4	2.1	1.00	0.551	0.900	5.50

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	4.62	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.62		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.50
+		Q into Tributary	0
			5.50

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	204.61	114.7	112.5	0.0109	2.98314	10	1.00	0.900	2.685	4.62

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>mean</sub>	%Q	V <sub>mean</sub>	Travel Time (sec)			0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	7	2.547	A-NW-TN	6.3	1.00	0.490	0.900	14.44

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.21	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.21		
Assumed T <sub>c</sub> (min)	7		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.44
		Q into Tributary	0
			14.44

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	681	108.0	85.0	0.03373	2.54679	10	1.00	0.900	2.292	7.21

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	12	1.977	A-SE1.3	9.4	1.00	0.388	0.900	16.65

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.99	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.99		
Assumed T <sub>c</sub> (min)	12		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	16.65
		Q into Tributary	0
			16.65

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	745	122.0	114.3	0.0104	1.97685	10	1.00	0.900	1.779	11.99

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1 Similar cases: A-NE2.1, A-SW2.1, A-NW2.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE2.1	2.6	0.60	0.468	0.727	4.49

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.09	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.09		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.49
+		Q into Tributary	0
			4.49

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	90.84	117.0	115.7	0.01398	2.39187	10	0.60	0.727	1.739	3.13
	0.060	66.25	115.7	113.8	0.02958	2.39187	10	0.60	0.727	1.739	4.96
Field Data Unavailable - Data Estimated											
8.09											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00
			4.68							

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2 Similar cases: A-SW2.2, A-NE2.2, A-NW2.2

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE2.2	2.4	0.73	0.468	0.783	4.53

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.82	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.82		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.53
+		Q into Tributary	0
			4.53

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	90	117.0	115.7	0.01411	2.39187	10	0.73	0.783	1.873	3.02
	0.060	66.12	115.7	113.8	0.02964	2.39187	10	0.73	0.783	1.873	4.80
Field Data Unavailable - Data Estimated											
7.82											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>(0.5)</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00
			4.68							

No Pipe Flow Time



**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	30	1.285	A-SE2.3	6.3	0.73	0.235	0.720	5.81

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	37.25	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	37.25		
Assumed T <sub>c</sub> (MIN)	30		
Validity	Try Again	Recommended Pipe Size	
	*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid	0.00 dia.	
	Required Q	Velocity	
	0.00	0.00 ft/sec	
Q From Tributary	FALSE		
Q Into Tributary	0		
	0.00		

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	366	118.8	115.8	0.0082	2.10006	10	1.00	0.900	1.890	8.21

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		0.00	Q <sub>lot</sub>	V <sub>max</sub> 4.68	%Q	V <sub>max</sub>	V <sub>max</sub> (fps)	Travel Time (sec)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE3.1	4.2	1.00	0.468	0.900	9.13

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.79	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.79		
Assumed T <sub>c</sub> (MIN)	8		
Validity	TC Valid	Recommended Pipe Size	
	*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid	0.00 dia.	
	Required Q	Velocity	
	9.13	0.00 ft/sec	
Q From Tributary	9.13		
Q Into Tributary	0		
	9.13		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	366	118.8	115.8	0.0082	2.39167	10	1.00	0.900	2.153	7.79

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
		0.00	Q <sub>lot</sub>	V <sub>max</sub> 4.68	%Q	V <sub>max</sub>	V <sub>max</sub> (fps)	Travel Time (sec)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.2 Similar cases: A-SE1.2, A-SE1.1, A-NE1.1, A-NE1.2, A-SW1.2, A-SW1.1, A-NW1.1, A-NW1.2

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE3.2	4.5	1.00	0.468	0.900	9.69

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.75	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.75		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	9.69
		Q into Tributary	0
			9.69

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	362	118.8	115.8	0.00815	2.39167	10	1.00	0.900	2.153	7.75

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	15	1.780	A-SE3.3	9.3	1.00	0.350	0.900	14.88

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	15.11	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	15.11		
Assumed T <sub>c</sub> (min)	15		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.88
		Q into Tributary	0
			14.88

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	936.81	124.2	116.0	0.00875	1.78003	10	1.00	0.900	1.602	15.11

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 \cdot Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	6	2.738	A-SE3.4	1.1	1.00	0.516	0.900	2.66

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	5.61	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	5.61		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	2.66
		Q into Tributary	0
			2.66

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	219.02	124.1	122.5	0.00731	2.73816	10	1.00	0.900	2.464	5.61

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 \cdot Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	14	1.839	A-SW1.3	8.8	1.00	0.363	0.900	14.55

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	14.03	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	14.03		
Assumed T <sub>c</sub> (min)	14		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.55
		Q into Tributary	0
			14.55

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	842	120.3	113.0	0.00867	1.83869	10	1.00	0.900	1.655	14.03

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	
				4.68				0.00	

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SW1.4	2.8	1.00	0.468	0.900	5.96

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.06	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.06		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.96
		Q into Tributary	0
			5.96

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	395	121.0	117.6	0.00859	2.39167	10	1.00	0.900	2.153	8.06

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	12	1.977	A-SW2.3	5.7	0.88	0.388	0.839	9.40

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.69	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.69		
Assumed T <sub>c</sub> (min)	12		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	9.40
		Q into Tributary	0
			9.40

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	234.73	120.3	116.1	0.01806	1.97685	10	0.88	0.839	1.658	5.23
	0.060	85.47	116.1	114.2	0.02176	1.97685	10	0.88	0.839	1.658	6.46

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	7	2.547	A-NW-TN	6.3	1.00	0.490	0.900	14.44

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.21	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.21		
Assumed T <sub>c</sub> (min)	7		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.44
		Q into Tributary	0
		<b>14.44</b>	

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW-TN

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	681	108.0	85.0	0.03373	2.54679	10	1.00	0.900	2.292	7.21

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	12	1.977	A-SE1.3	9.4	1.00	0.388	0.900	16.65

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.99	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.99		
Assumed T <sub>c</sub> (min)	12		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	16.65
		Q into Tributary	0
		<b>16.65</b>	

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE1.3

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	745	122.0	114.3	0.0104	1.97685	10	1.00	0.900	1.779	11.99

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1 Similar cases: A-NE2.1, A-SW2.1, A-NW2.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE2.1	2.6	0.60	0.468	0.727	4.49

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.09	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.09		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.49
		Q into Tributary	0
			4.49

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	90.84	117.0	115.7	0.01398	2.39187	10	0.60	0.727	1.739	3.13
	0.060	66.25	115.7	113.8	0.02958	2.39187	10	0.60	0.727	1.739	4.96
Field Data Unavailable - Data Estimated											
8.09											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>c</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2 Similar cases: A-SW2.2, A-NE2.2, A-NW2.2

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE2.2	2.4	0.73	0.468	0.783	4.53

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.82	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.82		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.53
		Q into Tributary	0
			4.53

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	90	117.0	115.7	0.01411	2.39187	10	0.73	0.783	1.873	3.02
	0.060	66.12	115.7	113.8	0.02964	2.39187	10	0.73	0.783	1.873	4.80
Field Data Unavailable - Data Estimated											
7.82											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						0.00

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>c</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)			0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	30	1.285	A-SE2.3	6.3	0.73	0.235	0.720	5.81

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	37.25	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	37.25		
Assumed T <sub>c</sub> (min)	30		
Validity	Try Again	Recommended Pipe Size	
	*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid	0.00 dia.	
	Required Q	0.00 ft/sec	
Q From Tributary	FALSE		
Q Into Tributary	0		
	0.00		

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	366	118.8	115.8	0.0082	2.10006	10	1.00	0.900	1.890	8.21

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE3.1	4.2	1.00	0.468	0.900	9.13

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.79	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.79		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
	*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid	0.00 dia.	
	Required Q	0.00 ft/sec	
Q From Tributary	9.13		
Q Into Tributary	0		
	9.13		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	366	118.8	115.8	0.0082	2.39167	10	1.00	0.900	2.153	7.79

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>tot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)		0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.2      Similar cases: A-SE1.2, A-SE1.1, A-NE1.1, A-NE1.2, A-SW1.2, A-SW1.1, A-NW1.1, A-NW1.2

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SE3.2	4.5	1.00	0.468	0.900	9.69

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.75	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.75		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	9.69
		Q into Tributary	0
			9.69

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.2

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	362	118.8	115.8	0.00815	2.39167	10	1.00	0.900	2.153	7.75

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	15	1.780	A-SE3.3	9.3	1.00	0.350	0.900	14.88

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	15.11	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	15.11		
Assumed T <sub>c</sub> (min)	15		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.88
		Q into Tributary	0
			14.88

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	936.81	124.2	116.0	0.00875	1.78003	10	1.00	0.900	1.602	15.11

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time



**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	6	2.738	A-SE3.4	1.1	1.00	0.516	0.900	2.66

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	5.61	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	5.61		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid		
<b>Recommended Pipe Size</b>			
		0.00 dia.	
<b>Velocity</b>			
	Required Q	0.00	ft/sec
+	Q From Tributary	2.66	
	Q into Tributary	0	
	<b>2.66</b>		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SE3.4

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	219.02	124.1	122.5	0.00731	2.73816	10	1.00	0.900	2.464	5.61

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	14	1.839	A-SW1.3	8.8	1.00	0.363	0.900	14.55

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	14.03	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	14.03		
Assumed T <sub>c</sub> (min)	14		
Validity	TC Valid		
<b>Recommended Pipe Size</b>			
		0.00 dia.	
<b>Velocity</b>			
	Required Q	0.00	ft/sec
+	Q From Tributary	14.55	
	Q into Tributary	0	
	<b>14.55</b>		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.3

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	842	120.3	113.0	0.00867	1.83869	10	1.00	0.900	1.655	14.03

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \text{Imp}) + (1.0 \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-SW1.4	2.8	1.00	0.468	0.900	5.96

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.06	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.06		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.96
		Q into Tributary	0
			5.96

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW1.4

$$\text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	395	121.0	117.6	0.00859	2.39167	10	1.00	0.900	2.153	8.06

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \text{Imp}) + (1.0 \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	12	1.977	A-SW2.3	5.7	0.88	0.388	0.839	9.40

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	11.69	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.69		
Assumed T <sub>c</sub> (min)	12		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	9.40
		Q into Tributary	0
			9.40

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW2.3

$$\text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	234.73	120.3	116.1	0.01806	1.97685	10	0.88	0.839	1.658	5.23
	0.060	85.47	116.1	114.2	0.02176	1.97685	10	0.88	0.839	1.658	6.46

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>100</sub>	C <sub>50</sub>	C <sub>25</sub> (cfs)
1	6	2.738	A-SW3.1	4.1	1.00	0.516	0.900	9.98

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	6.05	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	6.05		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid		
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
<b>Recommended Pipe Size</b>			
	0.00	dia.	
<b>Velocity</b>			
	Required Q	0.00	ft/sec
Q From Tributary	9.98		
+ Q into Tributary	0		
	9.98		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.4}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>50</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>-1</sup>	Time (min)
1	0.014	252	112.9	111.0	0.00754	2.73816	10	1.00	0.900	2.464	6.05

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>-1</sup>	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>100</sub>	C <sub>50</sub>	C <sub>25</sub> (cfs)
1	17	1.678	A-SW3.2	12.7	1.00	0.324	0.900	19.14

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	17.34	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	17.34		
Assumed T <sub>c</sub> (min)	17		
Validity	TC Valid		
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
<b>Recommended Pipe Size</b>			
	0.00	dia.	
<b>Velocity</b>			
	Required Q	0.00	ft/sec
Q From Tributary	19.14		
+ Q into Tributary	0		
	19.14		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.4}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>50</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>-1</sup>	Time (min)
1	0.014	1173	120.0	109.0	0.00938	1.67833	10	1.00	0.900	1.510	17.34

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>1</sub> <sup>-1</sup>	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	4	3.313	A-NE1.3	2.4	1.00	0.598	0.900	7.19

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	3.72	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	3.72		
Assumed T <sub>c</sub> (min)	4		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	7.19
		Q into Tributary	0
			7.19

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	158	116.1	114.3	0.01158	3.313	10	1.00	0.900	2.982	3.72

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	Q <sub>tot</sub>	V <sub>mean</sub>	%Q	V <sub>mean</sub>	Travel Time (sec)	Sum Time (min)			
		0.00	4.68				0.00			

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	18	1.634	A-NE1.4	3.1	0.71	0.324	0.733	3.76

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	17.82	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	17.82		
Assumed T <sub>c</sub> (min)	18		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Required Q	0.00 ft/sec
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	3.76
		Q into Tributary	0
			3.76

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE1.4

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	94.75	117.9	116.7	0.01309	1.63385	10	0.71	0.733	1.197	3.81
	0.060	200.77	116.7	113.9	0.014	1.63385	10	0.71	0.733	1.197	14.01

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
			Top	Bottom						
Trial No.	K	Q <sub>tot</sub>	V <sub>mean</sub>	%Q	V <sub>mean</sub>	Travel Time (sec)	Sum Time (min)			
		0.00	4.68				0.00			

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	11	2.059	A-NE2.3	3.2	0.84	0.400	0.820	5.45

**Results Summary**

Trial 1		Manning's Coefficient	Slope of Pipe
Lot or Overland Flow	11.12	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	11.12		
Assumed T <sub>c</sub> (min)	11		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
Velocity		0.00	ft/sec
Required Q		0.00	ft/sec
Q From Tributary	5.45		
Q into Tributary	0		
<b>+</b>	<b>5.45</b>		

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.3

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
1	0.014	257.2	117.0	114.9	0.00816	2.05937	10	0.84	0.820	1.689	6.96
	0.060	42.12	114.9	114.0	0.02232	2.05937	10	0.84	0.820	1.689	4.16
Field Data Unavailable - Data Estimated											
11.12											

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)
				4.68					0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.4

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
1	0.014	234.17	119.1	115.3	0.01631	2.98314	10	0.79	0.827	2.466	4.59

Field Data Unavailable - Data Estimated      4.59

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>u</sub> †	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
No Street Flow Time						
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.5)</sup>	Q (cfs)	K=Q/S <sup>(0.5)</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)
				4.68					0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE2.4

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>d25</sub>	C <sub>u25</sub>	Q <sub>25</sub> (cfs)
1	5	2.983	A-NE2.4	3.2	0.79	0.551	0.827	7.94

**Results Summary**

Trial 1		Manning's Coefficient	Slope of Pipe
Lot or Overland Flow	4.59	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.59		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
Velocity		0.00	ft/sec
Required Q		7.94	ft/sec
Q From Tributary	7.94		
Q into Tributary	0		
<b>+</b>	<b>7.94</b>		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.1	5.7	1.00	0.468	0.900	12.33

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.81	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.81		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	Required Q 0.00 ft/sec
Q From Tributary	12.33		
+ Q into Tributary	0		
	12.33		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.1

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	367	118.8	115.8	0.00817	2.39167	10	1.00	0.900	2.153	7.81

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.2	6.2	1.00	0.468	0.900	13.43

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	7.73	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	7.73		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	0.00 dia.
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		Velocity	Required Q 0.00 ft/sec
Q From Tributary	13.43		
+ Q into Tributary	0		
	13.43		

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.2

$$\text{LOT OR OVERLAND FLOW: Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	363	118.8	115.8	0.00826	2.39167	10	1.00	0.900	2.153	7.73

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
Trial No.	K	0.00	Q <sub>lot</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (sec)	Sum Time (min)	0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	8	2.392	A-NE3.3	5.6	1.00	0.468	0.900	12.14

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	8.28	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	8.28		
Assumed T <sub>c</sub> (min)	8		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	12.14
		Q into Tributary	0
			12.14

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NE3.3

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	342	117.8	115.8	0.00585	2.39167	10	1.00	0.900	2.153	8.28

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot Imp) + (1.0 - Imp) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	23	1.456	A-NW1.3	10.8	1.00	0.282	0.900	14.17

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	23.09	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	23.09		
Assumed T <sub>c</sub> (min)	23		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	14.17
		Q into Tributary	0
			14.17

\*Should be within 0.5 minutes of assumed T<sub>c</sub> to be Valid

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.3

LOT OR OVERLAND FLOW:      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.5})$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
1	0.014	1098	116.8	112.6	0.00383	1.45605	10	1.00	0.900	1.310	23.09

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	26	1.375	A-NW1.4	3.9	0.80	0.251	0.770	4.12

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	26.00	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	26.00		
Assumed T <sub>c</sub> (min)	26		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	4.12
+		Q into Tributary	0
			4.12

Note: Validity shows to try again since assumed T<sub>c</sub> (30 min) is not w/in 0.5 of calc'd T<sub>c</sub>. Use T<sub>c</sub>=30 min (maximum T<sub>c</sub> req'd).

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW1.4

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	96.23	115.5	115.6	0.00966	1.37452	10	0.80	0.770	1.059	4.42
	0.060	286.45	115.6	113.3	0.00796	1.37452	10	0.80	0.770	1.059	21.58

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	%	V <sub>max</sub>	Travel Time (min)		
		0.00	4.68							0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 \cdot \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	13	1.904	A-NW2.3	3.8	0.80	0.375	0.795	5.75

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	12.73	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	12.73		
Assumed T <sub>c</sub> (min)	13		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.75
+		Q into Tributary	0
			5.75

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.3

$$\text{LOT OR OVERLAND FLOW:} \quad \text{Lot Time} = (0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
			Top	Bottom							
1	0.014	239.63	113.9	111.8	0.00897	1.90386	10	0.80	0.795	1.514	6.77
	0.060	55.27	111.8	111.1	0.01339	1.90386	10	0.80	0.795	1.514	5.96

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> ·I	Time (min)
		Top	Bottom								
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>0.5</sup>	Q (cfs)	K <sub>s</sub> ·Q <sup>0.5</sup>	Dia (in)	Sum Time (min)
		Top	Bottom							
Trial No.	K	Q <sub>ult</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	%	V <sub>max</sub>	Travel Time (min)		
		0.00	4.68							0.00

No Pipe Flow Time



**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	5	2.983	A-NW2.4	2.1	1.00	0.551	0.900	5.50

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	4.62	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	4.62		
Assumed T <sub>c</sub> (min)	5		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	5.50
		Q into Tributary	0
			5.50

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-NW2.4

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	204.61	114.7	112.5	0.0109	2.98314	10	1.00	0.900	2.685	4.62

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

Rainfall Zone: Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u \quad \text{If } C_d < C_u, C_d = C_u$$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>25</sub>	C <sub>25</sub>	Q <sub>25</sub> (cfs)
1	6	2.738	A-SW3.1	4.1	1.00	0.516	0.900	9.98

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	6.05	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	6.05		
Assumed T <sub>c</sub> (min)	6		
Validity	TC Valid	Recommended Pipe Size	
		0.00 dia.	
		Velocity	
		Required Q	0.00 ft/sec
		Q From Tributary	9.98
		Q into Tributary	0
			9.98

**RATIONAL METHOD HYDROLOGY CALCULATION** ERC Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.1

$$\text{Lot Time} = (0.94 \cdot L \cdot 0.6 \cdot N^{0.5}) / ((C_d \cdot I)^{0.5} \cdot S^{0.5})$$

Trial No.	N	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	I <sub>25</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
1	0.014	252	112.9	111.0	0.00754	2.73816	10	1.00	0.900	2.464	6.05

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> *I	Time (min)
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft) Top	Elev. (ft) Bottom	Slope (S)	S <sup>0.5</sup>	Q (cfs)	K=Q/S <sup>0.5</sup>	Dia (in)	Sum Time (min)
										0.00

No Pipe Flow Time

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

Rainfall Zone:      Frequency: 50 year

Soil Type No.: 10

$$C_d = (0.9 \cdot \text{Imp}) + (1.0 - \text{Imp}) \cdot C_u$$

If  $C_d < C_u$ ,  $C_d = C_u$

Trial No.	Assumed Time (Min)	I <sub>25</sub> (in/hr)	Subarea No.	Area (ac)	Prop. Imp.	C <sub>100</sub>	C <sub>250</sub>	Q <sub>50</sub> (cfs)
1	17	1.678	A-SW3.2	12.7	1.00	0.324	0.900	19.14

**Results Summary**

	Trial 1	Mannings Coefficient	Slope of Pipe
Lot or Overland Flow	17.34	0.0000	0.0000
Channel	0.00		
Street	0.00		
Pipe	0.00		
Total	17.34		
Assumed T <sub>c</sub> (MIN)	17		
Validity	TC Valid	Recommended Pipe Size	
*Should be within 0.5 minutes of assumed T <sub>c</sub> to be Valid			
		0.00 dia.	
	Required Q	0.00	ft/sec
Q From Tributary	19.14		
+ Q into Tributary	0		
	19.14		

**RATIONAL METHOD HYDROLOGY CALCULATION**      ERC      Date: 5/2/2008

Project: Midfield Base Plan

Subarea: A-SW3.2

**LOT OR OVERLAND FLOW:**      Lot Time =  $(0.94 \cdot L^{0.6} \cdot N^{0.5}) / ((C_d \cdot I)^{0.4} \cdot S^{0.3})$

Trial No.	N	L (ft)	Elev. (ft)		Slope	I <sub>50</sub> (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
1	0.014	1173	120.0	109.0	0.00938	1.67833	10	1.00	0.900	1.510	17.34

Field Data Unavailable - Data Estimated

**CHANNEL**

Trial No.	Pipe Flow (ft)	L (ft)	Elev. (ft)		Slope	Intensity (in/hr)	Soil No.	Prop. Imp.	C <sub>d</sub>	C <sub>d</sub> <sup>1</sup>	Time (min)
			Top	Bottom							
	0	0					13				0.00

No Channel Flow Time

**STREET**

Trial No.	Reach	W	H	L	Street	Time (min)
						0.00

No Street Flow Time

**PIPE**

Trial No.	Reach	L (ft)	Elev. (ft)		Slope (S)	S <sup>(0.6)</sup>	Q (cfs)	K <sub>s</sub> Q/S <sup>(0.6)</sup>	Dia (in)
			Top	Bottom					
Trial No.	K	0.00	Q <sub>crit</sub>	V <sub>max</sub>	%Q	V <sub>max</sub>	V <sub>max</sub>	Travel Time (min)	Sum Time (min)
				4.68					0.00

No Pipe Flow Time

Appendix G-2  
LAX Crossfield Taxiway Project Draft EIR

**Hydrology Analysis**  
**Relocation of American Airlines Parking Lot**

September 2008

*Prepared by:*

**Los Angeles World Airports**  
One World Way  
Los Angeles, California 90045



# **Hydrology Analysis**

## **Los Angeles International Airport (LAX) Relocation of American Airlines (AA) Parking Lot**

### **1.0 INTRODUCTION**

#### **A. Purpose and Scope**

The purpose of this analysis is to evaluate the post-construction drainage conditions for the relocation of the AA Parking Lot at the Los Angeles International Airport (LAX). The analysis is limited to the tributary drainage area of the proposed project, which ultimately drains into the Pershing Drainage Outlet. This analysis partially relies on previous drainage studies prepared in support of various LAX projects.

#### **B. Study Report**

Results of the hydrology analysis conducted to determine the peak drainage flows resulting from the project and any increase in runoff caused by the paving of previously unpaved areas.

#### **C. Existing Drainage Conditions**

In general, as previously documented in drainage studies for LAX area, the proposed parking lot area drains directly into the Pershing Drainage Outlet. The LAX Pershing Drainage Outlet, Sub-basin of Santa Monica Bay Watershed, consists of the area west of Tom Bradley Terminal (TBIT), to Pershing Drive between north and south runways and is approximately 770 acres. This sub-basin ultimately discharges to the Dockweiler subwatershed outfall which is under the jurisdiction of the Los Angeles County Flood Control District. Combined discharge for Pershing and Imperial sub-basins is 1145 cubic feet per second (cfs) as identified in the County documentation for Project No. 513, Line "C", which is the 50-year flow according to PB-Final report.

## 2.0 HYDROLOGY ANALYSIS

### A. Methodology and Analysis Criteria

The methodology and criteria used in the analysis to determine the project site run-off tributary to the Pershing Drainage Outlet is based on the Los Angeles County Department of Public Works (LADPW) Hydrologic Method Addendum to the 1991 Hydrology/Sedimentation Manual.

The LADPW Traditional Rational Method (for drainage areas of 40 acres or less), produces a peak flow rate for small areas.

$Q = CiA$  where:

$C_{(unimproved)} = 0.2$  – for unimproved land

$C_{(asphalt)} = 0.8$  – for paved area

$A_{(unimproved)} = 354,170 \text{ sf} / 43560 = 8.13 \text{ acres}$

$A_{(asphalt)} = 266,820 \text{ sf} / 43560 = 6.13 \text{ acres}$

$i = 5 \text{ in/hr}$

$Q_{(exist.)} = (0.2 * (5/12)\text{in/hr} * 8.13\text{acres}) + (0.8 * (5/12)\text{in/hr} * 6.13\text{acres})$

$Q_{(exist.)} = 2.72 \text{ cfs}$

$Q_{(improved)} = 0.8 * (5/12)\text{in/hr} * (8.13 \text{ acres} + 6.13\text{acres})$

$Q_{(improved)} = 4.75 \text{ cfs}$

$Q_{(increase)} = 2.03 \text{ cfs}$

### B. Results

This hydrology analysis has found that the proposed project will result in some additional flow as compared to existing conditions. However, since the maximum flow for the currently installed storm drain pipe just south of the project site is:

$Q_{cap} = 62 \text{ cfs}$

it is determined that the total increase is insignificant and the currently installed storm drain is capable of handling increased flow generated by this project.

## **Design Criteria**

Some of the key design criteria used in the Traditional Rational Method are described as follows:

### **A. Rainfall Zones**

Per Appendix B of the Hydrology Manual, the project falls within rainfall zone “K” for coastal plain conditions which corresponds to a 24-hour rainfall of 5.0 inches for a 50-year storm frequency.

### **B. Soil Classification**

The soil type for the project falls into soil type “014” as identified in the LACDPW design manual.

### **C. Runoff Coefficients (C)**

Runoff coefficients are developed for each tributary area based on the imperviousness of the soil, soil type, and the rainfall intensity.

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Appendix G-3  
LAX Crossfield Taxiway Project Draft EIR

**Evaluation of Water Quality Best Management  
Practices Applicable to the  
Crossfield Taxiway Project EIR**

September 2008

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045

*Prepared by:*

**CDM**  
111 Academy, Suite 150  
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# 1. INTRODUCTION

As required by the LAX Master Plan EIR, Los Angeles World Airports (LAWA) developed a Conceptual Drainage Plan (June 2005) to provide a basis by which detailed, project-specific drainage improvement plans at LAX would be designed. The Conceptual Drainage Plan provides an overview of relevant storm water regulations affecting planned Master Plan improvements, the methodology used in evaluation of the required best management practices (BMPs), and provides a link between the Master Plan EIR and future specific Master Plan projects. Section 4 of the Conceptual Drainage Plan identifies a suite of recommended BMPs for complying with permit requirements. These BMPs represent a range of options for preliminary steps in planning the type of BMPs and sizing requirements during the project development phase.

The recommended BMP options included source control (pollution prevention) and treatment control BMPs. The main objective for selection of BMPs for the LAX Master Plan area was to incorporate systems capable of potentially minimizing the surface water quality impacts to the maximum extent practicable (MEP) level (i.e., meeting MS4 permit and SUSMP requirements) and demonstrating that implementation of BMPs can prevent a net increase in pollutant loads to surface waters as required by Master Plan Commitment HWQ-1.

Additionally, as each Master Plan project progresses through planning and design, a project-specific Standard Urban Stormwater Mitigation Plan (SUSMP) will be required based on detailed site engineering.

The CFTP project includes the removal/relocation of existing airport facilities and the construction of new facilities, including taxiways, service roads, a new Aircraft Rescue and Fire Fighting (ARFF) station, a relocated parking lot, and the realignment of World Way West. All proposed project activities lie within the Pershing sub-area, as described in the Conceptual Drainage Plan.

Furthermore, all portions of the proposed CFTP project development footprint (approximately 82 acres) are currently impervious, except for a small unpaved area (8.13 acres) that will be developed as part of the relocated American Airlines parking lot.

# 2. BEST MANAGEMENT PRACTICE OPTIONS

BMPs are practices, or combinations of practices, currently determined to be effective for preventing or reducing storm water pollution to the MEP. One of the main objectives of the Conceptual Drainage Plan was to identify BMPs currently accepted by regulatory authorities to mitigate water quality impacts to the MEP.

When implemented and maintained properly, these BMPs are intended to result in the reduction of pollutants in storm water to the MEP. Furthermore, the Conceptual Drainage Plan provided general recommendations for implementation of measures to satisfy the General Construction and Industrial Permit requirements. These recommendations include requirements for measures and controls that utilize best available technology (BAT) and best control technology (BCT) to reduce pollutants. In addition, BMP implementation considers minimizing the following potential impacts:

- ◆ Polluted runoff that may require supplemental storm water treatment
- ◆ Exceedance of surface water quality criteria as outlined in the Regional Water Quality Control Board (RWQCB) Water Quality Control Plan for the Los Angeles Basin
- ◆ Exceedance of RWQCB surface water quality criteria in groundwater recharge areas
- ◆ Negative effects on the capacity for surface water to recharge groundwater aquifer systems

BMPs can be designed to either prevent pollution from reaching runoff waters (source control) or to treat affected runoff before it discharges into receiving waters (treatment control). Source control BMPs are baseline measures used to address design phase elements, routine and good housekeeping measures, construction and industrial activities, and spill control mitigation. Treatment control BMPs mitigate identified impacts on a site-specific basis.

### ***G-3. Evaluation of Water Quality Best Management Practices***

---

The following is an overview of source control and treatment control BMP options recommended for the CFTP to mitigate potential water quality impacts to the MEP.

## **2.1 Source Control BMPs**

Source control (or pollution prevention) BMPs are a necessary part of any effective BMP strategy. Source controls may be able to provide further mitigation and control some pollutants not controlled by a specific treatment control BMP. Proper incorporation and implementation of these measures during appropriate stages of project design will result in consistent protection of receiving waters. In combination with treatment control BMPs, when implemented properly, source control BMPs are intended to result in the reduction of pollutants in storm water to the MEP level.

A matrix summarizing potential source control BMPs for the various CFTP projects is included in **Table 1**. The matrix shows basic pollution prevention measures conforming with the City of Los Angeles SUSMP guidelines. Additional opportunities for source control may be identified during final design.

## **2.2 Treatment Control BMPs**

In the Conceptual Drainage Plan, a suite of feasible treatment control BMPs was presented based upon on project data and information available at the time. The BMP strategy considered the phased implementation of the LAX Master Plan projects. As such, various categories of BMP options were recommended to effectively minimize water quality impacts throughout the phases of construction by categorizing BMPs as follows:

- ◆ Project-Specific BMPs are intended to provide coverage for specific projects, meeting on-site requirements as well as serving as interim measures until sub-regional or regional BMPs are installed
- ◆ Sub-Regional BMPs maximize opportunities for mitigation by meeting the needs of several projects.
- ◆ Regional BMPs serve the largest tributary area and are designed to address the needs of larger portions of the airport and, if appropriate, off-site needs as well.

The intent of recommending the various levels of BMP options was not to provide redundant coverage, but to enable flexibility in meeting the project's water quality needs throughout the phased implementation of the LAX Master Plan.

Project-specific BMPs are recommended to be implemented only if the recommended sub-regional and regional BMPs are not feasible for the project area due to site constraints or are not appropriate based on the development proposed. These BMPs are proposed to address the pollutants of concern to the MEP level.

Based on treatment effectiveness, site constraints, and maintenance considerations, the Conceptual Drainage Plan recommended BMP treatment options for the Pershing sub-area, in which the CFTP projects are located. **Table 2** describes these treatment control BMPs.

**G-3. Evaluation of Water Quality Best Management Practices**

**Table 1**  
**Typical Potential Source Control BMPs**

<b>Projects</b>	<b>Housekeeping Practices</b>	<b>Public Education/Participation</b>	<b>Employee Training</b>	<b>Conserve Natural Areas / Vegetation Controls</b>	<b>Protect Slopes &amp; Channels</b>	<b>Provide Storm Drain System Stenciling &amp; Signage</b>	<b>Trash Storage Areas</b>	<b>Outdoor Material Handling and Storage Areas</b>	<b>Loading / Unloading Dock Areas</b>	<b>Waste Handling &amp; Disposal</b>	<b>Vehicle Fleet Management</b>	<b>Repair/Maintenance Bays</b>	<b>Parking Area</b>	<b>Provide Proof of Ongoing BMP Maintenance</b>	<b>BMPs in Construction SWPPP</b>	<b>BMPs in Industrial SWPPP</b>	<b>Peak Stormwater Runoff Discharge Rates</b>	<b>Minimize Stormwater Pollutants of Concern</b>	<b>Properly Design Vehicle/Equipment/Accessory Wash Areas</b>	<b>Properly Design Fueling Area</b>	<b>Design to Limit Oil Contamination &amp; Perform Maintenance</b>
Taxiways	x	x	x	x		x							x	x	x	x	x			x	x
New parallel service road	x	x	x	x		x								x	x	x	x	x			x
Realignment of World Way West	x	x	x	x		x								x	x	x	x	x			x
Relocate RON aircraft parking	x	x	x	x									x	x	x	x	x	x			x
Replacement parking lot	x	x	x	x		x	x			x	x	x	x	x	x	x	x	x			x
Ancillary facilities	x	x	x	x		x	x	x	x	x	x	x		x	x	x	x	x	x	x	x

Source: City of Los Angeles Department of Public Works, Bureau of Sanitation, Development Best Management Practices Handbook, Third Edition - Part B: Planning Activities, June 30, 2004.

## G-3. Evaluation of Water Quality Best Management Practices

Table 2

### Recommended Treatment Control BMP Options for Pershing Sub-Area

Site Location	Predominant Land Use	Project-Specific BMPs	Sub-Regional BMPs	Regional BMPs <sup>1</sup>
<b>Pershing Sub-Area</b>				
Total Pershing	Airport, O/S, Parking	Drain Inserts/Water Quality Inlets <sup>2</sup>	Media Filters <sup>2</sup>	Extended Detention/Retention <sup>3</sup>

<sup>1</sup> If regional BMP is not constructed, project-specific BMPs must be used at least on a temporary basis until sub-regional and/or regional BMPs are constructed.

<sup>2</sup> Proposed measures include water quality inlets and/or media filters as well as expanded use of existing water quality inlets. It should be noted that water quality inlets are recommended to be used only in areas where traffic, fueling and maintenance operations may result in high concentrations of oil/petroleum hydrocarbons in storm water and, in particular, where other BMPs are not feasible.

<sup>3</sup> Use of existing water quality retention basin and proposed extended detention basin, both of which would be hydraulically connected.

Source: CDM, 2008.

Consistent with the Conceptual Drainage Plan, the CFTP project will incorporate water quality inlets as part of the taxiway/apron drainage system.

## 2.3 Treatment BMP Sizing Requirements

In accordance with the municipal permit, the Conceptual Drainage Plan also discusses how treatment control BMPs incorporated into the LAX Master Plan projects would also be sized to meet SUSMP numerical sizing requirements. Per the SUSMP requirements, volume-based or flow-based design standards are used separately or in combination in sizing of the BMPs. These requirements are consistent with the City of Los Angeles Department of Public Works Development Best Management Practices Handbook provisions.

The SUSMP requirements give several alternative criteria for volumetric and flow sizing. For LAX Master Plan projects, volume of runoff produced by a 0.75-inch 24-hour rainfall event, and water quality flow produced from a 0.2 inch/hour intensity rainfall event from the project site will be used for conceptual BMP sizing.

Accordingly, the "water quality volumes" have been calculated as follows:

$$\text{Water Quality Volume (ac-ft)} = \text{Tributary area (ac)} \times \% \text{ impervious} \times 0.75 \text{ inches} / 12 \text{ inches per foot}$$

And flow-based requirements were calculated as follows:

$$\text{Water Quality Flow (cfs)} = \text{Tributary area (ac)} \times \% \text{ impervious} \times 0.2 \text{ inch/hr}$$

As described in the Conceptual Drainage Plan, the Pershing sub-area has a total tributary area of approximately 760 acres. Of the 760 acres, the CFTP project involves redevelopment of approximately 82 acres. This project footprint area is approximately 10 percent of the overall Pershing sub-area.

**Table 3** shows the water quality treatment requirements for the CFTP as calculated for an 82-acre tributary area.



### **G-3. Evaluation of Water Quality Best Management Practices**

---

**Table 3**

**Water Quality Treatment Requirements**

<b>Description</b>	<b>Tributary Area (ac)</b>	<b>Composite % Imperviousness</b>	<b>Water Quality Volume (ac-ft)</b>	<b>Water Quality Flow (cfs)</b>
CFTP Project footprint	82	80%	4.1	13

Source: CDM, 2008.

In order to comply with SUSMP requirements, 4.1 ac-ft of water quality volume would require treatment prior to discharge.

The recommended BMP treatment for this project would be to apply drain inserts/water quality inlets as project-specific BMPs in combination with a media filter(s) as a sub-regional BMP, where appropriate. In addition, an existing detention basin, with a capacity of 6 ac-ft, is located at the northeast corner of Pershing Drive and West Imperial Highway and presently receives runoff from the Pershing sub-area and then discharges to the Hyperion Wastewater Treatment Plant. This detention basin already provides capture and treatment of a portion of the runoff from the existing airport property within the sub-area.

### ***G-3. Evaluation of Water Quality Best Management Practices***

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Appendix H  
LAX Crossfield Taxiway Project Draft EIR

**The EDR Radius Map with GeoCheck<sup>®</sup>**

September 2008

*Prepared for:*

Los Angeles World Airports  
One World Way  
Los Angeles, California 90045

*Prepared by:*

EDR<sup>®</sup> Environmental Data Resources Inc.  
440 Wheelers Farms Road  
Milford, Connecticut 06461





**EDR**® Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

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6981 WORLD WAY WEST  
LOS ANGELES, CA 90045**

**Inquiry Number: 2204076.1s**

**April 24, 2008**

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

6981 WORLD WAY WEST  
LOS ANGELES, CA 90045

### COORDINATES

Latitude (North): 33.943380 - 33° 56' 36.2"  
Longitude (West): 118.412100 - 118° 24' 43.6"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 369501.2  
UTM Y (Meters): 3756581.8  
Elevation: 116 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 33118-H4 VENICE, CA  
Most Recent Revision: 1981

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### FEDERAL RECORDS

**NPL**..... National Priority List  
**Proposed NPL**..... Proposed National Priority List Sites  
**Delisted NPL**..... National Priority List Deletions  
**NPL LIENS**..... Federal Superfund Liens  
**CERCLIS**..... Comprehensive Environmental Response, Compensation, and Liability Information System  
**LIENS 2**..... CERCLA Lien Information  
**CORRACTS**..... Corrective Action Report  
**RCRA-TSDF**..... RCRA - Transporters, Storage and Disposal  
**RCRA-LQG**..... RCRA - Large Quantity Generators  
**RCRA-CESQG**..... RCRA - Conditionally Exempt Small Quantity Generator

## EXECUTIVE SUMMARY

<b>RCRA-NonGen</b>	RCRA - Non Generators
<b>US ENG CONTROLS</b>	Engineering Controls Sites List
<b>US INST CONTROL</b>	Sites with Institutional Controls
<b>DOT OPS</b>	Incident and Accident Data
<b>US CDL</b>	Clandestine Drug Labs
<b>US BROWNFIELDS</b>	A Listing of Brownfields Sites
<b>DOD</b>	Department of Defense Sites
<b>FUDS</b>	Formerly Used Defense Sites
<b>LUCIS</b>	Land Use Control Information System
<b>CONSENT</b>	Superfund (CERCLA) Consent Decrees
<b>ROD</b>	Records Of Decision
<b>UMTRA</b>	Uranium Mill Tailings Sites
<b>ODI</b>	Open Dump Inventory
<b>DEBRIS REGION 9</b>	Torres Martinez Reservation Illegal Dump Site Locations
<b>MINES</b>	Mines Master Index File
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
<b>HIST FTTS</b>	FIFRA/TSCA Tracking System Administrative Case Listing
<b>SSTS</b>	Section 7 Tracking Systems
<b>ICIS</b>	Integrated Compliance Information System
<b>PADS</b>	PCB Activity Database System
<b>MLTS</b>	Material Licensing Tracking System
<b>RADINFO</b>	Radiation Information Database
<b>RAATS</b>	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

<b>HIST Cal-Sites</b>	Historical Calsites Database
<b>CA BOND EXP. PLAN</b>	Bond Expenditure Plan
<b>SCH</b>	School Property Evaluation Program
<b>Toxic Pits</b>	Toxic Pits Cleanup Act Sites
<b>SWF/LF</b>	Solid Waste Information System
<b>CA WDS</b>	Waste Discharge System
<b>SWRCY</b>	Recycler Database
<b>SLIC</b>	Statewide SLIC Cases
<b>AOCONCERN</b>	San Gabriel Valley Areas of Concern
<b>LIENS</b>	Environmental Liens Listing
<b>CHMIRS</b>	California Hazardous Material Incident Report System
<b>Notify 65</b>	Proposition 65 Records
<b>LA Co. Site Mitigation</b>	Site Mitigation List
<b>DEED</b>	Deed Restriction Listing
<b>VCP</b>	Voluntary Cleanup Program Properties
<b>DRYCLEANERS</b>	Cleaner Facilities
<b>WIP</b>	Well Investigation Program Case List
<b>LOS ANGELES CO. HMS</b>	HMS: Street Number List
<b>CDL</b>	Clandestine Drug Labs
<b>RESPONSE</b>	State Response Sites
<b>HAULERS</b>	Registered Waste Tire Haulers Listing
<b>ENVIROSTOR</b>	EnviroStor Database

### TRIBAL RECORDS

<b>INDIAN RESERV</b>	Indian Reservations
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## EXECUTIVE SUMMARY

**INDIAN ODI**..... Report on the Status of Open Dumps on Indian Lands  
**INDIAN LUST**..... Leaking Underground Storage Tanks on Indian Land  
**INDIAN UST**..... Underground Storage Tanks on Indian Land

### EDR PROPRIETARY RECORDS

**Manufactured Gas Plants**... EDR Proprietary Manufactured Gas Plants

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### FEDERAL RECORDS

**CERC-NFRAP:** Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there is 1 CERC-NFRAP site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>LAXFUEL CORP</i></b>	<b><i>7265 WORLD WAY WEST</i></b>	<b><i>1/4 - 1/2N</i></b>	<b><i>D19</i></b>	<b><i>23</i></b>

**RCRA-SQG:** RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/06/2008 has revealed that there are 6 RCRA-SQG sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>LAXFUEL CORP</i></b>	<b><i>7265 WORLD WAY WEST</i></b>	<b><i>1/4 - 1/2N</i></b>	<b><i>D19</i></b>	<b><i>23</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>ALASKA AIRLINES LOS ANGELES</i></b>	<b><i>300 WORLD WY TERMINAL 3</i></b>	<b><i>1/8 - 1/4ENE</i></b>	<b><i>B5</i></b>	<b><i>8</i></b>

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>CHEVRON USA INC LOS ANGELES IN</i>	<i>6900 WORLD WAY WEST</i>	<i>1/8 - 1/4 WSW A10</i>		<i>14</i>
<i>AIRCRAFT SERVICE INTL INC</i>	<i>6920 WORLD WAY WEST</i>	<i>1/4 - 1/2 WSW C22</i>		<i>30</i>
<i>USCG AIR STATION LOS ANGELES</i>	<i>7159 WORLDWAY WEST</i>	<i>1/4 - 1/2 E F27</i>		<i>35</i>
<i>ARA SUNSET AIRPORT SYSTEMS INC</i>	<i>6951 WORLD WAY WEST</i>	<i>1/4 - 1/2 WSW E31</i>		<i>42</i>

**ERNS:** The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 ERNS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
7001 WORLD WAY WEST/GATE 121	7001 WORLD WAY WEST/GAT	1/8 - 1/4 W	A2	7

**HMIRS:** The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 10/31/2007 has revealed that there is 1 HMIRS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	300 WORLD WAY TERMINAL	1/8 - 1/4 ENE	B6	11

**FINDS:** The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 01/04/2008 has revealed that there are 2 FINDS sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>ALASKA AIRLINES LOS ANGELES</i>	<i>300 WORLD WY TERMINAL 3</i>	<i>1/8 - 1/4 ENE B5</i>		<i>8</i>
<i>CHEVRON USA INC LOS ANGELES IN</i>	<i>6900 WORLD WAY WEST</i>	<i>1/8 - 1/4 WSW A10</i>		<i>14</i>

### STATE AND LOCAL RECORDS

**WMUDS/SWAT:** The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is

## EXECUTIVE SUMMARY

1 WMUDS/SWAT site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LOS ANGELES INTERNATIONAL AIRP	ALONG SEPULVEDA	0 - 1/8 N	1	6

**Cortese:** The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 Cortese sites within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAX FUEL CORP	6900 WORLD	1/8 - 1/4 WSW	A9	14
FAA LAX CONTROL TOWER	1 WORLD	1/4 - 1/2 ENE	B13	17
<b>TERMINAL 6 LAX</b>	<b>600 WORLD WY</b>	<b>1/4 - 1/2 E</b>	<b>21</b>	<b>27</b>
ARCO DAY STORAGE FACILITY	6950 WORLD	1/4 - 1/2 WSW	E32	44
<b>AMERICAN A/L</b>	<b>7000 WORLD</b>	<b>1/2 - 1 W</b>	<b>G38</b>	<b>54</b>
<b>AMERICAN AIRLINES INCORPORATED</b>	<b>7000 WORLD WAY WEST</b>	<b>1/2 - 1 W</b>	<b>G39</b>	<b>58</b>
<b>LAX TERMINAL 2</b>	<b>200 WORLD WY</b>	<b>1/2 - 1 ENE</b>	<b>40</b>	<b>59</b>

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/07/2008 has revealed that there are 7 LUST sites within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAX FUEL Facility Status: Remedial action (cleanup) Underway	6900 WORLD WY W	1/8 - 1/4 WSW	A7	11
FAA LAX CONTROL TOWER Facility Status: Case Closed	1 WORLD WAY	1/4 - 1/2 ENE	B15	20
<b>TERMINAL 6 LAX</b> Facility Status: Leak being confirmed	<b>600 WORLD WY</b>	<b>1/4 - 1/2 E</b>	<b>21</b>	<b>27</b>
<b>ARCO DAY STORAGE FACILITY (FOR</b> Facility Status: Case Closed	<b>6950 WORLD WAY W</b>	<b>1/4 - 1/2 WSW</b>	<b>E30</b>	<b>38</b>
AMERICAN A/L Facility Status: Leak being confirmed	7000 WORLD WY W	1/2 - 1 W	G37	52
<b>LAX TERMINAL 2</b> Facility Status: Pollution Characterization	<b>200 WORLD WY</b>	<b>1/2 - 1 ENE</b>	<b>40</b>	<b>59</b>
TERMINAL #1 LAX Facility Status: Preliminary site assessment workplan submitted	100 WORLD WY	1/2 - 1 E	41	61

## EXECUTIVE SUMMARY

**CA FID UST:** The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 10 CA FID UST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>DELTA AIRLINES</i>	<i>500 WORLD WAY</i>	<i>1/8 - 1/4 E</i>	<i>B4</i>	<i>7</i>
<i>LAX FUEL CORP</i>	<i>6900 W WORLD WAY</i>	<i>1/8 - 1/4 WSW</i>	<i>A8</i>	<i>13</i>
<i>UNK</i>	<i>531 WORLD WAY</i>	<i>1/8 - 1/4 E</i>	<i>12</i>	<i>16</i>
<i>LAX AIR TRAFFIC CONTROL TOWER</i>	<i>1 WORLD WAY</i>	<i>1/4 - 1/2 ENE</i>	<i>B16</i>	<i>22</i>
<i>AMERICAN AIRLINES, INCORPORATE</i>	<i>7150 W WORLD WAY</i>	<i>1/4 - 1/2 WSW</i>	<i>E24</i>	<i>33</i>
<i>TERMINAL ONE FUELS CORP</i>	<i>6940 W WORLD WAY</i>	<i>1/4 - 1/2 WSW</i>	<i>E26</i>	<i>34</i>
<i>LAX FUEL CORP</i>	<i>6949 W WORLD WAY</i>	<i>1/4 - 1/2 WSW</i>	<i>E29</i>	<i>37</i>
<i>TERMINAL ONE FUEL CORP</i>	<i>6950 W WORLD WAY</i>	<i>1/4 - 1/2 WSW</i>	<i>E34</i>	<i>45</i>
<i>OGDEN ALLIED</i>	<i>6951 WORLD WAY</i>	<i>1/4 - 1/2 WSW</i>	<i>E35</i>	<i>48</i>
<i>UNITED AIRLINES MAINTENANCE BA</i>	<i>700 WORLD WAY</i>	<i>1/4 - 1/2 E</i>	<i>F36</i>	<i>49</i>

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/07/2008 has revealed that there are 3 UST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FEDERAL AVIATION ADMINISTRATIO	245C WORLD WAY	1/8 - 1/4 ENE	B3	7
LOS ANGELES FIRE STATION 80	6911 WORLD WAY W	1/4 - 1/2 WSW	C17	23
DEPT. OF AIRPORTS	6947 WORLD WAY W	1/4 - 1/2 WSW	E28	37

**HIST UST:** Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 5 HIST UST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>LAX AIR TRAFFIC CONTROL TOWER</i>	<i>1 WORLD WAY</i>	<i>1/4 - 1/2 ENE</i>	<i>B14</i>	<i>17</i>
<i>TOM BRADLEY INTERNATIONAL TERM</i>	<i>380 WORLD WAY</i>	<i>1/4 - 1/2 ENE</i>	<i>23</i>	<i>33</i>
<i>AMERICAN AIRLINES, INC.</i>	<i>7150 WORLD WAY W</i>	<i>1/4 - 1/2 WSW</i>	<i>E25</i>	<i>34</i>
<i>ARCO DAY STORAGE FACILITY (FOR</i>	<i>6950 WORLD WAY W</i>	<i>1/4 - 1/2 WSW</i>	<i>E30</i>	<i>38</i>
<i>SUNSET AIRPORT SYSTEMS INC.</i>	<i>6951 WORLD WAY W</i>	<i>1/4 - 1/2 WSW</i>	<i>E33</i>	<i>44</i>

**AST:** The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 11/01/2007 has revealed that there is 1 AST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>LAXFUEL CORP</i>	<i>9900 LAXFUEL RD</i>	<i>1/4 - 1/2 N</i>	<i>D20</i>	<i>25</i>

## EXECUTIVE SUMMARY

**SWEEPS UST:** Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 11 SWEEPS UST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>DELTA AIRLINES</b>	<b>500 WORLD WAY</b>	<b>1/8 - 1/4 E</b>	<b>B4</b>	<b>7</b>
<b>LAX FUEL CORP</b>	<b>6900 W WORLD WAY</b>	<b>1/8 - 1/4 WSW</b>	<b>A8</b>	<b>13</b>
<b>UNK</b>	<b>531 WORLD WAY</b>	<b>1/8 - 1/4 E</b>	<b>12</b>	<b>16</b>
<b>LAX AIR TRAFFIC CONTROL TOWER</b>	<b>1 WORLD WAY</b>	<b>1/4 - 1/2 ENE</b>	<b>B16</b>	<b>22</b>
LOS ANGELES FIRE STATION 80	6911 W WORLD WAY	1/4 - 1/2 WSW	C18	23
<b>AMERICAN AIRLINES, INCORPORATE</b>	<b>7150 W WORLD WAY</b>	<b>1/4 - 1/2 WSW</b>	<b>E24</b>	<b>33</b>
<b>TERMINAL ONE FUELS CORP</b>	<b>6940 W WORLD WAY</b>	<b>1/4 - 1/2 WSW</b>	<b>E26</b>	<b>34</b>
<b>LAX FUEL CORP</b>	<b>6949 W WORLD WAY</b>	<b>1/4 - 1/2 WSW</b>	<b>E29</b>	<b>37</b>
<b>TERMINAL ONE FUEL CORP</b>	<b>6950 W WORLD WAY</b>	<b>1/4 - 1/2 WSW</b>	<b>E34</b>	<b>45</b>
<b>OGDEN ALLIED</b>	<b>6951 WORLD WAY</b>	<b>1/4 - 1/2 WSW</b>	<b>E35</b>	<b>48</b>
<b>UNITED AIRLINES MAINTENANCE BA</b>	<b>700 WORLD WAY</b>	<b>1/4 - 1/2 E</b>	<b>F36</b>	<b>49</b>

**HAZNET:** The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2006 has revealed that there is 1 HAZNET site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>ALASKA AIRLINES LOS ANGELES</b>	<b>300 WORLD WY TERMINAL 3</b>	<b>1/8 - 1/4 ENE</b>	<b>B5</b>	<b>8</b>

**AIRS:** Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the AIRS list, as provided by EDR, and dated 12/31/2005 has revealed that there are 2 AIRS sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>DELTA AIRLINES</b>	<b>500 WORLD WAY</b>	<b>1/8 - 1/4 E</b>	<b>B4</b>	<b>7</b>
LAXFUEL CORP UNIT NO.04	6900 WORLD WAY WEST	1/8 - 1/4 WSW	A11	16



# OVERVIEW MAP - 2204076.1s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Areas of Concern
- Power transmission lines
- Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory



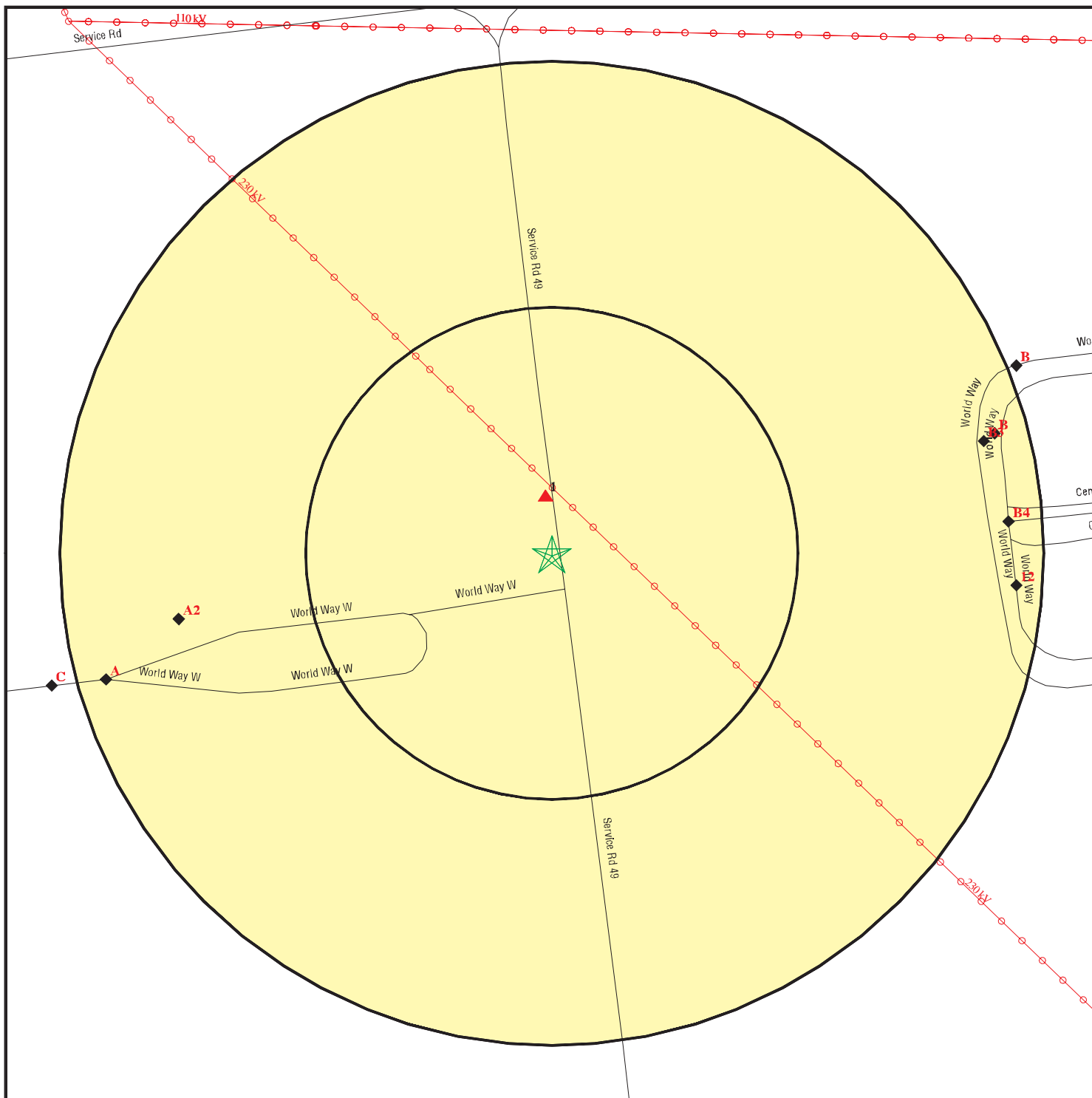
SITE NAME: LAX  
 ADDRESS: 6981 WORLD WAY WEST  
 LOS ANGELES CA 90045  
 LAT/LONG: 33.9434 / 118.4121

CLIENT: Camp, Dresser & McKee, Inc.  
 CONTACT: SIBEL TEKCE  
 INQUIRY #: 2204076.1s  
 DATE: April 24, 2008 3:25 pm





# DETAIL MAP - 2204076.1s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- ▨ National Priority List Sites
- ▩ Dept. Defense Sites

- 0 1/16 1/8 1/4 Miles
- ▨ Indian Reservations BIA
- ▲ Power transmission lines
- ▲ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▩ Areas of Concern

SITE NAME: LAX  
 ADDRESS: 6981 WORLD WAY WEST  
 LOS ANGELES CA 90045  
 LAT/LONG: 33.9434 / 118.4121

CLIENT: Camp, Dresser & McKee, Inc.  
 CONTACT: SIBEL TEKCE  
 INQUIRY #: 2204076.1s  
 DATE: April 24, 2008 3:25 pm



## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL RECORDS</u></b>								
NPL		1.250	0	0	0	0	0	0
Proposed NPL		1.250	0	0	0	0	0	0
Delisted NPL		1.250	0	0	0	0	0	0
NPL LIENS		0.250	0	0	NR	NR	NR	0
CERCLIS		0.750	0	0	0	0	NR	0
CERC-NFRAP		0.750	0	0	1	0	NR	1
LIENS 2		0.250	0	0	NR	NR	NR	0
CORRACTS		1.250	0	0	0	0	0	0
RCRA-TSDF		0.750	0	0	0	0	NR	0
RCRA-LQG		0.500	0	0	0	NR	NR	0
RCRA-SQG		0.500	0	2	4	NR	NR	6
RCRA-CESQG		0.500	0	0	0	NR	NR	0
RCRA-NonGen		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.750	0	0	0	0	NR	0
US INST CONTROL		0.750	0	0	0	0	NR	0
ERNS		0.250	0	1	NR	NR	NR	1
HMIRS		0.250	0	1	NR	NR	NR	1
DOT OPS		0.250	0	0	NR	NR	NR	0
US CDL		0.250	0	0	NR	NR	NR	0
US BROWNFIELDS		0.750	0	0	0	0	NR	0
DOD		1.250	0	0	0	0	0	0
FUDS		1.250	0	0	0	0	0	0
LUCIS		0.750	0	0	0	0	NR	0
CONSENT		1.250	0	0	0	0	0	0
ROD		1.250	0	0	0	0	0	0
UMTRA		0.750	0	0	0	0	NR	0
ODI		0.750	0	0	0	0	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
MINES		0.500	0	0	0	NR	NR	0
TRIS		0.250	0	0	NR	NR	NR	0
TSCA		0.250	0	0	NR	NR	NR	0
FTTS		0.250	0	0	NR	NR	NR	0
HIST FTTS		0.250	0	0	NR	NR	NR	0
SSTS		0.250	0	0	NR	NR	NR	0
ICIS		0.250	0	0	NR	NR	NR	0
PADS		0.250	0	0	NR	NR	NR	0
MLTS		0.250	0	0	NR	NR	NR	0
RADINFO		0.250	0	0	NR	NR	NR	0
FINDS		0.250	0	2	NR	NR	NR	2
RAATS		0.250	0	0	NR	NR	NR	0
<b><u>STATE AND LOCAL RECORDS</u></b>								
HIST Cal-Sites		1.250	0	0	0	0	0	0
CA BOND EXP. PLAN		1.250	0	0	0	0	0	0
SCH		0.500	0	0	0	NR	NR	0
Toxic Pits		1.250	0	0	0	0	0	0
SWF/LF		0.750	0	0	0	0	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA WDS		0.250	0	0	NR	NR	NR	0
WMUDS/SWAT		0.750	1	0	0	0	NR	1
Cortese		0.750	0	1	3	3	NR	7
SWRCY		0.750	0	0	0	0	NR	0
LUST		0.750	0	1	3	3	NR	7
CA FID UST		0.500	0	3	7	NR	NR	10
SLIC		0.750	0	0	0	0	NR	0
AOCONCERN		1.250	0	0	0	0	0	0
UST		0.500	0	1	2	NR	NR	3
HIST UST		0.500	0	0	5	NR	NR	5
AST		0.500	0	0	1	NR	NR	1
LIENS		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.500	0	3	8	NR	NR	11
CHMIRS		0.250	0	0	NR	NR	NR	0
Notify 65		1.250	0	0	0	0	0	0
LA Co. Site Mitigation		0.250	0	0	NR	NR	NR	0
DEED		0.750	0	0	0	0	NR	0
VCP		0.750	0	0	0	0	NR	0
DRYCLEANERS		0.500	0	0	0	NR	NR	0
WIP		0.500	0	0	0	NR	NR	0
LOS ANGELES CO. HMS		0.250	0	0	NR	NR	NR	0
CDL		0.250	0	0	NR	NR	NR	0
RESPONSE		1.250	0	0	0	0	0	0
HAZNET		0.250	0	1	NR	NR	NR	1
AIRS		0.250	0	2	NR	NR	NR	2
HAULERS	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.250	0	0	0	0	0	0
<b><u>TRIBAL RECORDS</u></b>								
INDIAN RESERV		1.250	0	0	0	0	0	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.750	0	0	0	0	NR	0
INDIAN UST		0.500	0	0	0	NR	NR	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
Manufactured Gas Plants		1.250	0	0	0	0	0	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
North  
< 1/8  
0.030 mi.  
157 ft.

LOS ANGELES INTERNATIONAL AIRP  
ALONG SEPULVEDA  
LOS ANGELES, CA

WMUDS/SWAT S103441399  
N/A

Relative:  
Equal

WMUDS/SWAT:

Actual:  
116 ft.

Edit Date: Not reported  
Complexity: Not reported  
Primary Waste: Not reported  
Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Base Meridian: Not reported  
NPID: Not reported  
Tonnage: 0  
Regional Board ID: Not reported  
Municipal Solid Waste: False  
Superorder: False  
Open To Public: False  
Waste List: False  
Agency Type: Not reported  
Agency Name: LOS ANGELES INTERNATIONAL AIRP  
Agency Department: Not reported  
Agency Address: Not reported  
Agency City,St,Zip: Not reported  
Agency Contact: Not reported  
Agency Telephone: Not reported  
Land Owner Name: Not reported  
Land Owner Address: Not reported  
Land Owner City,St,Zip: CA  
Land Owner Contact: Not reported  
Land Owner Phone: Not reported  
Region: 4  
Facility Type: Not reported  
Facility Description: Not reported  
Facility Telephone: Not reported  
SWAT Facility Name: Not reported  
Primary SIC: Not reported  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: False  
Solid Waste Assessment Test Program: True  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: LOS ANGELES INTERNATIONAL AIRPORT  
Threat to Water Quality: Not reported  
Sub Chapter 15: False  
Regional Board Project Officer: LT  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: Not reported  
Waste Discharge Requirements: Not reported  
Self-Monitoring Rept. Frequency: Not reported  
Waste Discharge System ID: 4 190137NUR  
Solid Waste Information ID: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

---

<b>A2</b>	7001 WORLD WAY WEST/GATE 121	<b>ERNS</b>	<b>87463835</b>
<b>West</b>	7001 WORLD WAY WEST/GATE 121		N/A
<b>1/8-1/4</b>	LOS ANGELES, CA		
<b>0.193 mi.</b>			
<b>1016 ft.</b>	Site 1 of 6 in cluster A		

**Relative: Lower**      [Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

<b>Actual:</b>			
<b>112 ft.</b>			
<b>B3</b>	FEDERAL AVIATION ADMINISTRATION-CONTROL TOWER	<b>UST</b>	<b>U003780424</b>
<b>ENE</b>	245C WORLD WAY		N/A
<b>1/8-1/4</b>	LOS ANGELES, CA 90045		
<b>0.227 mi.</b>			
<b>1197 ft.</b>	Site 1 of 8 in cluster B		

**Relative: Lower**      UST:  
                                  Local Agency:    Los Angeles, Los Angeles County  
                                  Facility ID:        23959

**Actual:**  
**111 ft.**

<b>B4</b>	DELTA AIRLINES	<b>CA FID UST</b>	<b>S101586479</b>
<b>East</b>	500 WORLD WAY	<b>AIRS</b>	N/A
<b>1/8-1/4</b>	LOS ANGELES, CA 90045	<b>SWEEPS UST</b>	
<b>0.233 mi.</b>			
<b>1228 ft.</b>	Site 2 of 8 in cluster B		

**Relative: Lower**      CA FID UST:  
                                  Facility ID:        19051678  
                                  Regulated By:    UTNKA  
                                  Regulated ID:    Not reported  
                                  Cortese Code:    Not reported  
                                  SIC Code:        Not reported  
                                  Facility Phone:    2130000000  
                                  Mail To:          Not reported  
                                  Mailing Address: 500 WORLD WAY TERMINAL  
                                  Mailing Address 2: Not reported  
                                  Mailing City,St,Zip: LOS ANGELES 900450000  
                                  Contact:          Not reported  
                                  Contact Phone:    Not reported  
                                  DUNs Number:    Not reported  
                                  NPDES Number:   Not reported  
                                  EPA ID:           Not reported  
                                  Comments:        Not reported  
                                  Status:            Active

**EMI:**

Year:	1995
Carbon Monoxide Emissions Tons/Yr:	19
Air Basin:	SC
Facility ID:	80744
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DELTA AIRLINES (Continued)**

**S101586479**

SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

**SWEEPS UST:**

Status: A  
Comp Number: 6619  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 02-23-93  
Act Date: 02-23-93  
Created Date: 02-29-88  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

**B5**  
**ENE**  
**1/8-1/4**  
**0.233 mi.**  
**1231 ft.**

**ALASKA AIRLINES LOS ANGELES**  
**300 WORLD WY TERMINAL 3**  
**LOS ANGELES, CA 90045**

**RCRA-SQG 1000685960**  
**FINDS CAD983629262**  
**HAZNET**

**Site 3 of 8 in cluster B**

**Relative:**  
**Lower**

**RCRA-SQG:**

Date form received by agency: 04/21/1992  
Facility name: ALASKA AIRLINES LOS ANGELES  
Facility address: 300 WORLD WY TERMINAL 3  
LOS ANGELES, CA 90045  
EPA ID: CAD983629262  
Mailing address: P O BOX 68900 SEAZA  
SEATTLE, WA 981680900  
Contact: WALLACE REID  
Contact address: P O BOX 68900 SEAZA  
SEATTLE, WA 981680900  
Contact country: US  
Contact telephone: (206) 433-3378  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:**  
**111 ft.**

**Owner/Operator Summary:**

Owner/operator name: ALASKA AIRLINES INC  
Owner/operator address: P O BOX 68900 SEAZA  
SEATTLE, WA 98168  
Owner/operator country: Not reported  
Owner/operator telephone: (206) 433-3378  
Legal status: Municipal

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALASKA AIRLINES LOS ANGELES (Continued)**

**1000685960**

Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZNET:**

Gepaid: CAD983629262  
Contact: ALASKA AIRLINES INC  
Telephone: 2064333276  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 68900  
Mailing City,St,Zip: SEATTLE, WA 981680900  
Gen County: Los Angeles  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Waste oil and mixed oil  
Disposal Method: Disposal, Other  
Tons: 2.0641  
Facility County: Los Angeles

Gepaid: CAD983629262  
Contact: ALASKA AIRLINES INC  
Telephone: 2064333276  
Facility Addr2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALASKA AIRLINES LOS ANGELES (Continued)**

**1000685960**

Mailing Name: Not reported  
Mailing Address: PO BOX 68900  
Mailing City,St,Zip: SEATTLE, WA 981680900  
Gen County: Los Angeles  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Other organic solids  
Disposal Method: Disposal, Other  
Tons: 1.5219  
Facility County: Los Angeles

Gepaid: CAD983629262  
Contact: ALASKA AIRLINES INC  
Telephone: 2064333276  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 68900  
Mailing City,St,Zip: SEATTLE, WA 981680900  
Gen County: Los Angeles  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Recycler  
Tons: 2.2934  
Facility County: Los Angeles

Gepaid: CAD983629262  
Contact: ALASKA AIRLINES INC  
Telephone: 2064333276  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 68900  
Mailing City,St,Zip: SEATTLE, WA 981680900  
Gen County: Los Angeles  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Organic solids with halogens  
Disposal Method: Recycler  
Tons: 1.6250  
Facility County: Los Angeles

Gepaid: CAD983629262  
Contact: JANET BAAD/ENV'T'L ANALYST  
Telephone: 2063929855  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 68900 SEAZE  
Mailing City,St,Zip: SEATTLE, WA 981680900  
Gen County: Los Angeles  
TSD EPA ID: AZD009015389  
TSD County: 99  
Waste Category: Organic solids with halogens  
Disposal Method: Treatment, Incineration  
Tons: 0.25  
Facility County: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ALASKA AIRLINES LOS ANGELES (Continued)**

**1000685960**

[Click this hyperlink](#) while viewing on your computer to access 36 additional CA\_HAZNET: record(s) in the EDR Site Report.

**B6**  
**ENE**  
 1/8-1/4  
 0.233 mi.  
 1231 ft.

**300 WORLD WAY TERMINAL #3**  
**LOS ANGELES, CA**  
 Site 4 of 8 in cluster B

**HMIRS 97090971**  
**N/A**

**Relative:**  
**Lower**

[Click this hyperlink](#) while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

**Actual:**  
 111 ft.  
**A7**  
**WSW**  
 1/8-1/4  
 0.235 mi.  
 1243 ft.

**LAX FUEL**  
**6900 WORLD WY W**  
**WESTCHESTER, CA 90045**  
 Site 2 of 6 in cluster A

**LUST S104891043**  
**N/A**

**Relative:**  
**Lower**

**LUST:**  
 Region: STATE  
 Case Type: Other ground water affected  
 Cross Street: PERSHING  
 Enf Type: Not reported  
 Funding: Not reported  
 How Discovered: OM  
 How Stopped: Not reported  
 Leak Cause: Overfill  
 Leak Source: Tank  
 Global Id: T0603701043  
 Stop Date: 1987-05-13 00:00:00  
 Confirm Leak: Not reported  
 Workplan: Not reported  
 Prelim Assess: Not reported  
 Pollution Char: 1988-07-14 00:00:00  
 Remed Plan: Not reported  
 Remed Action: 1998-02-13 00:00:00  
 Monitoring: Not reported  
 Close Date: Not reported  
 Discover Date: 1987-05-13 00:00:00  
 Enforcement Dt: Not reported  
 Release Date: 1987-05-13 00:00:00  
 Review Date: 1998-02-13 00:00:00  
 Enter Date: 1987-08-13 00:00:00  
 MTBE Date: 1965-01-01 00:00:00  
 GW Qualifier: <  
 Soil Qualifier: Not reported  
 Max MTBE GW ppb: 1.0  
 Max MTBE Soil ppb: Not reported  
 County: 19  
 Org Name: Not reported  
 Reg Board: Los Angeles Region  
 Status: Remedial action (cleanup) Underway  
 Chemical: 1  
 Contact Person: Not reported  
 Responsible Party: AIRCRAFT SERVICE  
 RP Address: PO BOX 92529, LOS ANGELES, CA 90009  
 Interim: Not reported

**Actual:**  
 111 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAX FUEL (Continued)**

**S104891043**

Oversight Prgm: Spills, Leaks, Investigations and Cleanup UST  
MTBE Class: D  
MTBE Conc: 1  
MTBE Fuel: 0  
MTBE Tested: MTBE Detected. Site tested for MTBE and MTBE detected  
Staff: SLC  
Staff Initials: HRQ  
Lead Agency: Regional Board  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: LOP/HIGH - KNOWN HEALTH/SAFETY/ENVIRONMENTAL IMPACT  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported  
Local Case #: Not reported  
Case Number: 900450170  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: Not reported  
Water System Name: Not reported  
Well Name: Not reported  
Distance To Lust: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: SAME SITE REFER TO SLIC #303A-LAXFUEL-BFSF

**LUST:**

Region: 4  
Staff: SLC  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Regional Board  
Case Type: Groundwater  
Status: Remedial action (cleanup) Underway  
Substance: 1  
Cross Street: PERSHING  
Global ID: T0603701043  
Enforcement Type: Not reported  
Date Leak Discovered: 5/13/1987  
Date Leak Record Entered: 8/13/1987  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: Overfill  
Leak Source: Tank  
Date Leak Stopped: 5/13/1987  
Date Confirmation Began: Not reported  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 5/13/1987  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 7/14/1988  
Remediation Plan Submitted: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAX FUEL (Continued)**

**S104891043**

Remedial Action Underway: 2/13/1998  
 Post Remedial Action Monitoring Began: Not reported  
 Date the Case was Closed: Not reported  
 Date Case Last Changed on Database: 2/13/1998  
 Enforcement Action Date: Not reported  
 Historical Max MTBE Date: 1/1/1965  
 Hist Max MTBE Conc in Groundwater: 1  
 Hist Max MTBE Conc in Soil: Not reported  
 Significant Interim Remedial Action Taken: Not reported  
 GW Qualifier: <  
 Soil Qualifier: Not reported  
 Organization: Not reported  
 Regional Board: 04  
 Owner Contact: Not reported  
 Responsible Party: AIRCRAFT SERVICE  
 RP Address: PO BOX 92529, LOS ANGELES, CA 90009  
 Program: SLIC  
 Lat/Long: 33.944248 / -1  
 Local Agency Staff: PEJ  
 Beneficial Use: Not reported  
 Priority: LOP/HIGH - KNOWN HEALTH/SAFETY/ENVIRONMENTAL IMPACT  
 Cleanup Fund Id: Not reported  
 Suspended: Not reported  
 Local Case No: Not reported  
 Substance Quantity: Not reported  
 Assigned Name: Not reported  
 W Global ID: Not reported  
 Summary: SAME SITE REFER TO SLIC #303A-LAXFUEL-BFSF

**A8**  
**WSW**  
**1/8-1/4**  
**0.235 mi.**  
**1243 ft.**

**LAX FUEL CORP**  
**6900 W WORLD WAY**  
**LOS ANGELES, CA 90045**

**CA FID UST S101582771**  
**SWEEPS UST N/A**

**Site 3 of 6 in cluster A**

**Relative:**  
**Lower**

CA FID UST:  
 Facility ID: 19001340  
 Regulated By: UTNKA  
 Regulated ID: Not reported  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: 8187169311  
 Mail To: Not reported  
 Mailing Address: 6900 W WORLD WAY  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: LOS ANGELES 900450000  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNs Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Active

**Actual:**  
**111 ft.**

SWEEPS UST:  
 Status: Not reported  
 Comp Number: 7367

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAX FUEL CORP (Continued)**

**S101582771**

Number: Not reported  
 Board Of Equalization: Not reported  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: Not reported  
 Actv Date: Not reported  
 Capacity: Not reported  
 Tank Use: Not reported  
 Stg: Not reported  
 Content: Not reported  
 Number Of Tanks: Not reported

**A9**  
**WSW**  
**1/8-1/4**  
**0.235 mi.**  
**1243 ft.**

**LAX FUEL CORP**  
**6900 WORLD**  
**LOS ANGELES, CA 90045**  
**Site 4 of 6 in cluster A**

**Cortese S101297379**  
**N/A**

**Relative:**  
**Lower**

Cortese:  
 Region: CORTESE  
 Facility Addr2: Not reported

**Actual:**  
**111 ft.**

Region: CORTESE  
 Facility Addr2: Not reported

**A10**  
**WSW**  
**1/8-1/4**  
**0.235 mi.**  
**1243 ft.**

**CHEVRON USA INC LOS ANGELES INTL ARPT**  
**6900 WORLD WAY WEST**  
**LOS ANGELES, CA 90009**  
**Site 5 of 6 in cluster A**

**RCRA-SQG 1000434376**  
**FINDS CAT000614800**

**Relative:**  
**Lower**

RCRA-SQG:  
 Date form received by agency: 09/01/1996  
 Facility name: CHEVRON USA INC LOS ANGELES INTL ARPT  
 Facility address: 6900 WORLD WAY WEST  
 LOS ANGELES, CA 90009

**Actual:**  
**111 ft.**

EPA ID: CAT000614800  
 Mailing address: PO BOX 127 LOS ANGELES AIRPORT  
 LOS ANGELES, CA 90245  
 Contact: Not reported  
 Contact address: Not reported  
 Not reported  
 Contact country: Not reported  
 Contact telephone: Not reported  
 Contact email: Not reported  
 EPA Region: 09  
 Classification: Small Small Quantity Generator  
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEVRON USA INC LOS ANGELES INTL ARPT (Continued)**

**1000434376**

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: CHEVRON USA INC/CITY OF LOS ANGELES  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 08/15/1980  
Facility name: CHEVRON USA INC LOS ANGELES INTL ARPT  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A11**      **LAXFUEL CORP UNIT NO.04**  
**WSW**      **6900 WORLD WAY WEST**  
**1/8-1/4**    **LOS ANGELES, CA 90009**  
**0.235 mi.**  
**1243 ft.**    **Site 6 of 6 in cluster A**

**AIRS**    **S105938447**  
           **N/A**

**Relative:**  
**Lower**

EMI:  
 Year: 1987  
 Carbon Monoxide Emissions Tons/Yr: 19  
 Air Basin: SC  
 Facility ID: 54940  
 Air District Name: SC  
 SIC Code: 4581  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 13  
 Reactive Organic Gases Tons/Yr: 9  
 Carbon Monoxide Emissions Tons/Yr: 0  
 NOX - Oxides of Nitrogen Tons/Yr: 0  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

**Actual:**  
**111 ft.**

**12**      **UNK**  
**East**    **531 WORLD WAY**  
**1/8-1/4**    **LOS ANGELES, CA 90045**  
**0.237 mi.**  
**1249 ft.**

**CA FID UST**    **S101586991**  
**SWEEPS UST**    **N/A**

**Relative:**  
**Lower**

CA FID UST:  
 Facility ID: 19054685  
 Regulated By: UTKNI  
 Regulated ID: Not reported  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: 2130000000  
 Mail To: Not reported  
 Mailing Address: UNK  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: LOS ANGELES 900450000  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNs Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Inactive

**Actual:**  
**109 ft.**

SWEEPS UST:  
 Status: Not reported  
 Comp Number: 7935  
 Number: Not reported  
 Board Of Equalization: Not reported  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNK (Continued)**

**S101586991**

Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

**B13**  
**ENE**  
1/4-1/2  
0.255 mi.  
1344 ft.

**FAA LAX CONTROL TOWER**  
**1 WORLD**  
**LOS ANGELES, CA 90045**

**Cortese** **S100851406**  
**N/A**

**Site 5 of 8 in cluster B**

**Relative:**  
**Lower**

Cortese:  
Region: **CORTESE**  
Facility Addr2: Not reported

**Actual:**  
**112 ft.**

**B14**  
**ENE**  
1/4-1/2  
0.255 mi.  
1344 ft.

**LAX AIR TRAFFIC CONTROL TOWER**  
**1 WORLD WAY**  
**LOS ANGELES, CA 90045**

**CHMIRS** **U001561860**  
**HIST UST** **N/A**  
**CA WDS**

**Site 6 of 8 in cluster B**

**Relative:**  
**Lower**

CHMIRS:  
OES Incident Number: 98-4874  
OES notification: 10/28/199812:38:16 PM  
OES Date: Not reported  
OES Time: Not reported  
Incident Date: Not reported  
**Date Completed: Not reported**  
Property Use: Not reported  
Agency Id Number: Not reported  
Agency Incident Number: Not reported  
Time Notified: Not reported  
Time Completed: Not reported  
Surrounding Area: Not reported  
Estimated Temperature: Not reported  
Property Management: Not reported  
Special Studies 1: Not reported  
Special Studies 2: Not reported  
Special Studies 3: Not reported  
Special Studies 4: Not reported  
Special Studies 5: Not reported  
Special Studies 6: Not reported  
More Than Two Substances Involved?: Not reported  
Resp Agency Personel # Of Decontaminated: Not reported  
Responding Agency Personel # Of Injuries: Not reported  
Responding Agency Personel # Of Fatalities: Not reported  
Others Number Of Decontaminated: Not reported  
Others Number Of Injuries: Not reported  
Others Number Of Fatalities: Not reported  
Vehicle Make/year: Not reported  
Vehicle License Number: Not reported  
Vehicle State: Not reported  
Vehicle Id Number: Not reported

**Actual:**  
**112 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAX AIR TRAFFIC CONTROL TOWER (Continued)**

**U001561860**

CA/DOT/PUC/ICC Number: Not reported  
Company Name: Not reported  
Reporting Officer Name/ID: Not reported  
Report Date: Not reported  
Comments: Not reported  
Facility Telephone: Not reported  
Waterway Involved: No  
Waterway: Not reported  
Spill Site: Not reported  
Cleanup By: Contractor  
Containment: Not reported  
What Happened: Not reported  
Type: Not reported  
Measure: Not reported  
Other: Not reported  
Date/Time: Not reported  
Year: 1998  
Agency: LA City Fire  
Incident Date: 10/27/1998 12:00:00 AM  
Admin Agency: Los Angeles City Fire Department  
Amount: Not reported  
Contained: Yes  
Site Type: Airport  
E Date: Not reported  
Substance: Diesel  
Quantity Released: Not reported  
BBLs: 0  
Cups: 0  
CUFT: 0  
Gallons: 350  
Grams: 0  
Pounds: 0  
Liters: 0  
Ounces: 0  
Pints: 0  
Quarts: 0  
Sheen: 0  
Tons: 0  
Unknown: 0  
Description: Not reported  
Evacuations: 0  
Number of Injuries: 0  
Number of Fatalities: 0  
Description: The Central Plant at LAX airport received an alarm from an underground pipeline indicating a release. The fuel went to the secondary containment area but that was not secure allowing the fuel to leak to the soil. An airport contractor is on scene determining cleanup and extent of soil contamination.

**HIST UST:**

Region: STATE  
Facility ID: 00000061356  
Facility Type: Other  
Other Type: AIR TRAFFIC CONTROL  
Total Tanks: 0001  
Contact Name: Not reported  
Telephone: 2132152030  
Owner Name: FAA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAX AIR TRAFFIC CONTROL TOWER (Continued)**

**U001561860**

Owner Address: 5885 WEST IMPERIAL HWY.  
Owner City,St,Zip: LOS ANGELES, CA 90045

Tank Num: 001  
Container Num: 10  
Year Installed: 1961  
Tank Capacity: 00000500  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

**CA WDS:**

Facility ID: 4 19I004995  
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 4  
Facility Telephone: 3106463853  
Facility Contact: Maurice Z. Laham  
Agency Name: LA CITY DEPT OF AIRPORTS  
Agency Address: P.O. Box 92216  
Agency City,St,Zip: Los Angeles 900092216  
Agency Contact: Maurice Z. Laham  
Agency Telephone: 3106463853  
Agency Type: City  
SIC Code: 4581  
SIC Code 2: Not reported  
Primary Waste: Stormwater Runoff  
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: No reclamation requirements associated with this facility.  
POTW: The facility is not a POTW.  
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B15**  
**ENE**  
**1/4-1/2**  
**0.255 mi.**  
**1344 ft.**

**FAA LAX CONTROL TOWER**  
**1 WORLD WAY**  
**WESTCHESTER, CA 90045**

**LUST** **S102429637**  
**N/A**

**Site 7 of 8 in cluster B**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**112 ft.**

Region: STATE  
Case Type: Soil only  
Cross Street: Not reported  
Enf Type: Not reported  
Funding: Not reported  
How Discovered: Not reported  
How Stopped: Not reported  
Leak Cause: Not reported  
Leak Source: Piping  
Global Id: T0603701050  
Stop Date: Not reported  
Confirm Leak: Not reported  
Workplan: Not reported  
Prelim Assess: Not reported  
Pollution Char: Not reported  
Remed Plan: Not reported  
Remed Action: Not reported  
Monitoring: Not reported  
Close Date: 1996-06-26 00:00:00  
Discover Date: Not reported  
Enforcement Dt: Not reported  
Release Date: 1988-01-27 00:00:00  
Review Date: 1996-06-26 00:00:00  
Enter Date: 1996-05-30 00:00:00  
MTBE Date: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Max MTBE GW ppb: Not reported  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Case Closed  
Chemical: Diesel  
Contact Person: Not reported  
Responsible Party: FED AVIATION ADMINISTRATION  
RP Address: P.O. BOX 92007, LOS ANGELES CA 90009  
Interim: No  
Oversight Prgm: LUST  
MTBE Class: \*  
MTBE Conc: 0  
MTBE Fuel: 0  
MTBE Tested: Not Required to be Tested.  
Staff: YR  
Staff Initials: HRQ  
Lead Agency: Regional Board  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported

C

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAA LAX CONTROL TOWER (Continued)**

**S102429637**

Local Case #: Not reported  
Case Number: 900450270  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: FAA  
Water System Name: Not reported  
Well Name: Not reported  
Distance To LUST: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: SITE RETREIVED FROM EH'S OFFICE HEAP(S) DURING ORGANIZATION

**LUST:**

Region: 4  
Staff: UNK  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Regional Board  
Case Type: Soil  
Status: Case Closed  
Substance: Diesel  
Cross Street: Not reported  
Global ID: T0603701050  
Enforcement Type: Not reported  
Date Leak Discovered: Not reported  
Date Leak Record Entered: 5/30/1996  
How Leak Discovered: Not reported  
How Leak Stopped: Not reported  
Cause of Leak: Not reported  
Leak Source: Piping  
Date Leak Stopped: Not reported  
Date Confirmation Began: Not reported  
Operator: FAA  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 1/27/1988  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: 6/26/1996  
Date Case Last Changed on Database: 6/26/1996  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: No  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Regional Board: 04  
Owner Contact: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FAA LAX CONTROL TOWER (Continued)**

**S102429637**

Responsible Party: FED AVIATION ADMINISTRATION  
RP Address: P.O. BOX 92007, LOS ANGELES CA 90009  
Program: LUST  
Lat/Long: 33.944248 / -1  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Local Case No: Not reported  
Substance Quantity: Not reported  
Assigned Name: Not reported  
W Global ID: Not reported  
Summary: SITE RETREIVED FROM EH'S OFFICE HEAP(S) DURING ORGANIZATION

**B16**  
**ENE**  
**1/4-1/2**  
**0.255 mi.**  
**1344 ft.**

**LAX AIR TRAFFIC CONTROL TOWER**  
**1 WORLD WAY**  
**LOS ANGELES, CA 90045**

**CA FID UST S101617500**  
**SWEEPS UST N/A**

**Site 8 of 8 in cluster B**

**Relative:**  
**Lower**

CA FID UST:  
Facility ID: 19001490  
Regulated By: UTNKI  
Regulated ID: 00061356  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2132152030  
Mail To: Not reported  
Mailing Address: 5885 W IMPERIAL HWY  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900450000  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Inactive

**Actual:**  
**112 ft.**

**SWEEPS UST:**

Status: Not reported  
Comp Number: 3431  
Number: Not reported  
Board Of Equalization: 44-012890  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-003431-000001  
Actv Date: Not reported  
Capacity: 500  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: DIESEL  
Number Of Tanks: 1

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

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<b>C17</b> <b>WSW</b> <b>1/4-1/2</b> <b>0.263 mi.</b> <b>1388 ft.</b>	<b>LOS ANGELES FIRE STATION 80</b> <b>6911 WORLD WAY W</b> <b>LOS ANGELES, CA 90045</b>  <b>Site 1 of 3 in cluster C</b>	<b>UST</b>	<b>U003781580</b> <b>N/A</b>
<b>Relative:</b> <b>Lower</b>	<b>UST:</b> Local Agency: Los Angeles, Los Angeles County Facility ID: 25325		
<b>Actual:</b> <b>111 ft.</b>			

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<b>C18</b> <b>WSW</b> <b>1/4-1/2</b> <b>0.263 mi.</b> <b>1388 ft.</b>	<b>LOS ANGELES FIRE STATION 80</b> <b>6911 W WORLD WAY</b> <b>LOS ANGELES, CA 90045</b>  <b>Site 2 of 3 in cluster C</b>	<b>SWEEPS UST</b>	<b>S106928828</b> <b>N/A</b>
<b>Relative:</b> <b>Lower</b>	<b>SWEEPS UST:</b> Status: A Comp Number: 5385 Number: 4 Board Of Equalization: Not reported Ref Date: 09-22-93 Act Date: 04-04-94 Created Date: 02-29-88 Tank Status: Not reported Owner Tank Id: Not reported Swrcb Tank Id: Not reported Actv Date: Not reported Capacity: Not reported Tank Use: Not reported Stg: Not reported Content: Not reported Number Of Tanks: Not reported		
<b>Actual:</b> <b>111 ft.</b>			

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<b>D19</b> <b>North</b> <b>1/4-1/2</b> <b>0.283 mi.</b> <b>1496 ft.</b>	<b>LAXFUEL CORP</b> <b>7265 WORLD WAY WEST</b> <b>LOS ANGELES, CA 90009</b>  <b>Site 1 of 2 in cluster D</b>	<b>RCRA-SQG</b> <b>CERC-NFRAP</b>	<b>1000231074</b> <b>CAD981619562</b>
<b>Relative:</b> <b>Higher</b>	<b>RCRA-SQG:</b> Date form received by agency: 03/26/1990 Facility name: LAXFUEL CORP Facility address: 7265 WORLD WAY WEST LOS ANGELES, CA 90009  EPA ID: CAD981619562 Mailing address: PO BOX 92529 LOS ANGELES, CA 90009  Contact: THOMAS P SPEELMANS Contact address: Not reported Not reported Contact country: Not reported Contact telephone: (213) 646-1334 Contact email: Not reported EPA Region: 09 Classification: Small Small Quantity Generator Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of		
<b>Actual:</b> <b>118 ft.</b>			

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAXFUEL CORP (Continued)**

**1000231074**

hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: LAXFUEL CORP  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
Recycler of hazardous waste: Unknown  
Transporter of hazardous waste: Unknown  
Treater, storer or disposer of HW: No  
Underground injection activity: Unknown  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: Unknown  
Used oil processor: Unknown  
User oil refiner: Unknown  
Used oil fuel marketer to burner: Unknown  
Used oil Specification marketer: Unknown  
Used oil transfer facility: Unknown  
Used oil transporter: Unknown  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 12/29/1986  
Facility name: LAXFUEL CORP  
Classification: Small Quantity Generator

Violation Status: No violations found

CERC-NFRAP:

Site ID: 0904369  
Federal Facility: Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAXFUEL CORP (Continued)**

**1000231074**

CERCLIS-NFRAP Site Contact Name(s):

Contact Name: Matt Mitguard  
Contact Tel: (415) 972-3096  
Contact Title: Site Assessment Manager (SAM)

Contact Name: Nuria Muniz  
Contact Tel: (415) 972-3811  
Contact Title: Site Assessment Manager (SAM)

Site Description: Not reported

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 03/11/1992  
Priority Level: Not reported

Action: ARCHIVE SITE  
Date Started: Not reported  
Date Completed: 12/09/1993  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: Not reported  
Date Completed: 12/09/1993  
Priority Level: NFRAP (No Further Remedial Action Planned)

**D20**  
**North**  
**1/4-1/2**  
**0.283 mi.**  
**1496 ft.**

**LAXFUEL CORP**  
**9900 LAXFUEL RD**  
**LOS ANGELES, CA 90045**

**HAZNET** **S102807262**  
**AST** **N/A**  
**CA WDS**

**Site 2 of 2 in cluster D**

**Relative:**  
**Higher**

HAZNET:

Gepaid: CAD981619562  
Contact: LAXFUEL CORP  
Telephone: 3106461202  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 92529  
Mailing City,St,Zip: LOS ANGELES, CA 900092529  
Gen County: Los Angeles  
TSD EPA ID: CAD000088252  
TSD County: Los Angeles  
Waste Category: Other inorganic solid waste  
Disposal Method: Transfer Station  
Tons: 7.5000  
Facility County: Los Angeles

**Actual:**  
**118 ft.**

Gepaid: CAD981619562  
Contact: LAXFUEL CORP  
Telephone: 3106461202  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 92529  
Mailing City,St,Zip: LOS ANGELES, CA 900092529  
Gen County: Los Angeles  
TSD EPA ID: CAT000646117



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAXFUEL CORP (Continued)**

**S102807262**

TSD County: Kings  
Waste Category: Other organic solids  
Disposal Method: Disposal, Land Fill  
Tons: 12.6420  
Facility County: Los Angeles

Gepaid: CAD981619562  
Contact: LAXFUEL CORP  
Telephone: 3106461202  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 92529  
Mailing City,St,Zip: LOS ANGELES, CA 900092529  
Gen County: Los Angeles  
TSD EPA ID: CAT000646117  
TSD County: Kings  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Disposal, Land Fill  
Tons: 64.8956  
Facility County: Los Angeles

Gepaid: CAD981619562  
Contact: LAXFUEL CORP  
Telephone: 3106461202  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 92529  
Mailing City,St,Zip: LOS ANGELES, CA 900092529  
Gen County: Los Angeles  
TSD EPA ID: CAT000646117  
TSD County: Kings  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Treatment, Tank  
Tons: 12.6420  
Facility County: Los Angeles

Gepaid: CAD981619562  
Contact: LAXFUEL CORP  
Telephone: 3106461202  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 92529  
Mailing City,St,Zip: LOS ANGELES, CA 900092529  
Gen County: Los Angeles  
TSD EPA ID: CAT000646117  
TSD County: Kings  
Waste Category: Contaminated soil from site clean-ups  
Disposal Method: Not reported  
Tons: .0000  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 69 additional CA\_HAZNET: record(s) in the EDR Site Report.

**AST:**

Owner: LAXFUEL CORPORATION  
Total Gallons: 26229000

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAXFUEL CORP (Continued)**

**S102807262**

CA WDS:

Facility ID: Los Angeles River 196800059  
 Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
 Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
 NPDES Number: CAG914001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
 Subregion: 4  
 Facility Telephone: 9095957126  
 Facility Contact: Thomas Speelman (760)717-4642  
 Agency Name: LAXFUEL CORP.  
 Agency Address: Not reported  
 Agency City,St,Zip: 0  
 Agency Contact: Not reported  
 Agency Telephone: Not reported  
 Agency Type: Private  
 SIC Code: 5172  
 SIC Code 2: Not reported  
 Primary Waste: Contaminated Ground Water  
 Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Design Flow: 0  
 Baseline Flow: 0  
 Reclamation: No reclamation requirements associated with this facility.  
 POTW: The facility is not a POTW.  
 Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.  
 Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

21  
 East  
 1/4-1/2  
 0.287 mi.  
 1517 ft.

**TERMINAL 6 LAX**  
**600 WORLD WY**  
**WESTCHESTER, CA 90045**

**LUST S101297377**  
**Cortese N/A**

**Relative:**  
**Lower**

LUST:  
 Region: STATE  
 Case Type: Soil only  
 Cross Street: SEPULVEDA  
 Enf Type: Not reported  
 Funding: Not reported  
 How Discovered: OM  
 How Stopped: Not reported  
 Leak Cause: Structure Failure  
 Leak Source: Other Source  
 Global Id: T0603701077

**Actual:**  
**109 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL 6 LAX (Continued)**

**S101297377**

Stop Date: 1987-06-03 00:00:00  
Confirm Leak: 1987-06-03 00:00:00  
Workplan: Not reported  
Prelim Assess: Not reported  
Pollution Char: Not reported  
Remed Plan: Not reported  
Remed Action: Not reported  
Monitoring: Not reported  
Close Date: Not reported  
Discover Date: 1987-06-03 00:00:00  
Enforcement Dt: Not reported  
Release Date: 1987-06-03 00:00:00  
Review Date: 1987-06-03 00:00:00  
Enter Date: 1987-08-13 00:00:00  
MTBE Date: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Max MTBE GW ppb: Not reported  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Leak being confirmed  
Chemical: 1  
Contact Person: Not reported  
Responsible Party: SWINERTON & WALBERS CONTRACTOR  
RP Address: 600 WORLD WY, LOS ANGELES, CA 90045  
Interim: Not reported  
Oversight Prgm: LUST  
MTBE Class: \*  
MTBE Conc: 0  
MTBE Fuel: 0  
MTBE Tested: Not Required to be Tested.  
Staff: YR  
Staff Initials: PK  
Lead Agency: Local Agency  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported  
Local Case #: Not reported  
Case Number: 900450616  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: OLD CASENO WAS 005039  
Water System Name: Not reported  
Well Name: Not reported  
Distance To Lust: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: Not reported

**LUST:**

Region: 4  
Staff: UNK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL 6 LAX (Continued)**

**S101297377**

County: Los Angeles  
Local Agency: 19050  
Lead Agency: Local Agency  
Case Type: Soil  
Status: Leak being confirmed  
Substance: 1  
Cross Street: SEPULVEDA  
Global ID: T0603701077  
Enforcement Type: Not reported  
Date Leak Discovered: 6/3/1987  
Date Leak Record Entered: 8/13/1987  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: Structure Failure  
Leak Source: Other Source  
Date Leak Stopped: 6/3/1987  
Date Confirmation Began: 6/3/1987  
Operator: OLD CASENO WAS 005039  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 6/3/1987  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: Not reported  
Date Case Last Changed on Database: 6/3/1987  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Regional Board: 04  
Owner Contact: Not reported  
Responsible Party: SWINERTON & WALBERS CONTRACTOR  
RP Address: 600 WORLD WY, LOS ANGELES, CA 90045  
Program: LUST  
Lat/Long: 33.944248 / -1  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Local Case No: Not reported  
Substance Quantity: Not reported  
Assigned Name: Not reported  
W Global ID: Not reported  
Summary: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL 6 LAX (Continued)**

**S101297377**

Cortese:  
Region: CORTESE  
Facility Addr2: Not reported

**C22**  
**WSW**  
**1/4-1/2**  
**0.290 mi.**  
**1529 ft.**

**AIRCRAFT SERVICE INTL INC**  
**6920 WORLD WAY WEST**  
**LOS ANGELES, CA 90045**

**RCRA-SQG 1000180800**  
**FINDS CAD981643208**  
**HAZNET**

**Site 3 of 3 in cluster C**

**Relative:**  
**Lower**

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: AIRCRAFT SERVICE INTL INC  
Facility address: 6920 WORLD WAY WEST  
LOS ANGELES, CA 90045  
EPA ID: CAD981643208  
Mailing address: P O BOX 90156  
LOS ANGELES, CA 90009  
Contact: ENVIRONMENTAL MANAGER  
Contact address: P O BOX 90156  
LOS ANGELES, CA 90009  
Contact country: US  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:**  
**111 ft.**

Owner/Operator Summary:  
Owner/operator name: AIRCRAFT SERV INTL INC  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:  
U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRCRAFT SERVICE INTL INC (Continued)**

1000180800

Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/26/1990  
Facility name: AIRCRAFT SERVICE INTL INC  
Classification: Large Quantity Generator

Date form received by agency: 01/13/1987  
Facility name: AIRCRAFT SERVICE INTL INC  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD981643208  
Contact: AIRCRAFT SERVICE INTERNATIONAL  
Telephone: 3055991600  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 90156  
Mailing City, St, Zip: LOS ANGELES, CA 900090156  
Gen County: Los Angeles  
TSD EPA ID: CAT000613935  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Transfer Station  
Tons: .0708  
Facility County: Los Angeles

Gepaid: CAD981643208  
Contact: AIRCRAFT SERVICE INTERNATIONAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRCRAFT SERVICE INTL INC (Continued)**

**1000180800**

Telephone: 3055991600  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 90156  
Mailing City,St,Zip: LOS ANGELES, CA 900090156  
Gen County: Los Angeles  
TSD EPA ID: CAT080033681  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Disposal, Land Fill  
Tons: 2.0500  
Facility County: Los Angeles

Gepaid: CAD981643208  
Contact: AIRCRAFT SERVICE INTERNATIONAL  
Telephone: 3055991600  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 90156  
Mailing City,St,Zip: LOS ANGELES, CA 900090156  
Gen County: Los Angeles  
TSD EPA ID: CAT080033681  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Disposal, Land Fill  
Tons: 2.3750  
Facility County: Los Angeles

Gepaid: CAD981643208  
Contact: LES FISCHER / GSE MANAGER  
Telephone: 3106462993  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 5701 W IMPERIAL HWY  
Mailing City,St,Zip: LOS ANGELES, CA 900456301  
Gen County: Los Angeles  
TSD EPA ID: CAT000613935  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Transfer Station  
Tons: 0.39  
Facility County: Not reported

Gepaid: CAD981643208  
Contact: AIRCRAFT SERVICE INTERNATIONAL  
Telephone: 3055991600  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 90156  
Mailing City,St,Zip: LOS ANGELES, CA 900090156  
Gen County: Los Angeles  
TSD EPA ID: CAD980883177  
TSD County: Kern  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 4.1700  
Facility County: Los Angeles

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRCRAFT SERVICE INTL INC (Continued)**

**1000180800**

[Click this hyperlink](#) while viewing on your computer to access  
41 additional CA\_HAZNET: record(s) in the EDR Site Report.

**23**  
**ENE**  
**1/4-1/2**  
**0.300 mi.**  
**1582 ft.**

**TOM BRADLEY INTERNATIONAL TERM**  
**380 WORLD WAY**  
**LOS ANGELES, CA 90009**

**HIST UST**    **U001560445**  
**N/A**

**Relative:**  
**Lower**

HIST UST:  
Region: STATE  
Facility ID: 00000055678  
Facility Type: Other  
Other Type: AIRPORT  
Total Tanks: 0001  
Contact Name: DALE HOWE  
Telephone: 2134170724  
Owner Name: CITY OF LOS ANGELES, DEPARTMEN  
Owner Address: #1 WORLD WAY  
Owner City,St,Zip: LOS ANGELES, CA 90009

**Actual:**  
**111 ft.**

Tank Num: 001  
Container Num: #1  
Year Installed: 1984  
Tank Capacity: 00000600  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

**E24**  
**WSW**  
**1/4-1/2**  
**0.324 mi.**  
**1712 ft.**

**AMERICAN AIRLINES, INCORPORATE**  
**7150 W WORLD WAY**  
**LOS ANGELES, CA 90045**

**CA FID UST**    **S101629332**  
**SWEEPS UST**    **N/A**

**Site 1 of 11 in cluster E**

**Relative:**  
**Lower**

CA FID UST:  
Facility ID: 19054222  
Regulated By: UTKI  
Regulated ID: 00033790  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2136465513  
Mail To: Not reported  
Mailing Address: P O BOX 619616  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900450000  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Inactive

**Actual:**  
**110 ft.**



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN AIRLINES, INCORPORATE (Continued)**

**S101629332**

**SWEEPS UST:**

Status: Not reported  
Comp Number: 1853  
Number: Not reported  
Board Of Equalization: 44-012018  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-001853-000001  
Actv Date: Not reported  
Capacity: 300  
Tank Use: OIL  
Stg: WASTE  
Content: WASTE OIL  
Number Of Tanks: 1

**E25**  
**WSW**  
**1/4-1/2**  
**0.324 mi.**  
**1712 ft.**

**AMERICAN AIRLINES, INC.**  
**7150 WORLD WAY W**  
**LOS ANGELES, CA 90045**  
  
**Site 2 of 11 in cluster E**

**HIST UST** **U001561815**  
**N/A**

**Relative:**  
**Lower**

**HIST UST:**

Region: STATE  
Facility ID: 00000033790  
Facility Type: Other  
Other Type: AIR CARRIER  
Total Tanks: 0001  
Contact Name: Not reported  
Telephone: 0000000000  
Owner Name: AMERICAN AIRLINES, INC.  
Owner Address: P.O. BOX 619616  
Owner City,St,Zip: DFW AIRPORT, TX 75261

**Actual:**  
**110 ft.**

Tank Num: 001  
Container Num: 15  
Year Installed: 1969  
Tank Capacity: 00000300  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: 1/4 inches  
Leak Detection: Visual

**E26**  
**WSW**  
**1/4-1/2**  
**0.344 mi.**  
**1816 ft.**

**TERMINAL ONE FUELS CORP**  
**6940 W WORLD WAY**  
**LOS ANGELES, CA 90045**  
  
**Site 3 of 11 in cluster E**

**CA FID UST** **S101587812**  
**SWEEPS UST** **N/A**

**Relative:**  
**Lower**

**CA FID UST:**

Facility ID: 19056025  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported

**Actual:**  
**110 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL ONE FUELS CORP (Continued)**

**S101587812**

SIC Code: Not reported  
Facility Phone: 2130000000  
Mail To: Not reported  
Mailing Address: P O BOX  
Mailing Address 2: Not reported  
Mailing City, St, Zip: LOS ANGELES 900450000  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**SWEEPS UST:**

Status: A  
Comp Number: 5370  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 01-11-93  
Act Date: 01-11-93  
Created Date: 02-29-88  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

**F27**  
**East**  
**1/4-1/2**  
**0.352 mi.**  
**1860 ft.**

**USCG AIR STATION LOS ANGELES**  
**7159 WORLDWAY WEST**  
**LOS ANGELES, CA 90045**

**RCRA-SQG 1000231466**  
**FINDS CA5690390450**

**Site 1 of 2 in cluster F**

**Relative:**  
**Lower**

**RCRA-SQG:**

Date form received by agency: 04/21/1988  
Facility name: USCG AIR STATION LOS ANGELES  
Facility address: 7159 WORLDWAY WEST  
LOS ANGELES, CA 90045  
EPA ID: CA5690390450  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 7159 WORLDWAY WEST  
LOS ANGELES, CA 90045  
Contact country: US  
Contact telephone: (213) 215-2112  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:**  
**108 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**USCG AIR STATION LOS ANGELES (Continued)**

**1000231466**

Owner/Operator Summary:

Owner/operator name: CITY OF LOS ANGELES  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Municipal  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Municipal  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 04/21/1988  
Facility name: USCG AIR STATION LOS ANGELES  
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**USCG AIR STATION LOS ANGELES (Continued)**

1000231466

corrective action activities required under RCRA.

**E28**  
**WSW**  
**1/4-1/2**  
**0.360 mi.**  
**1903 ft.**

**DEPT. OF AIRPORTS**  
**6947 WORLD WAY W**  
**LOS ANGELES, CA 90045**

**UST** **U003780357**  
**N/A**

**Site 4 of 11 in cluster E**

**Relative:**  
**Lower**

UST:  
Local Agency: Los Angeles, Los Angeles County  
Facility ID: 23875

**Actual:**  
**110 ft.**

**E29**  
**WSW**  
**1/4-1/2**  
**0.366 mi.**  
**1933 ft.**

**LAX FUEL CORP**  
**6949 W WORLD WAY**  
**LOS ANGELES, CA 90045**

**CA FID UST** **S101587816**  
**SWEEPS UST** **N/A**

**Site 5 of 11 in cluster E**

**Relative:**  
**Lower**

CA FID UST:  
Facility ID: 19056029  
Regulated By: UTNKA  
Regulated ID: Not reported  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2130000000  
Mail To: Not reported  
Mailing Address: 6060 AVION DR  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900450000  
Contact: Not reported  
Contact Phone: Not reported  
DUNS Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Actual:**  
**110 ft.**

**SWEEPS UST:**

Status: A  
Comp Number: 5383  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 01-11-93  
Act Date: 01-11-93  
Created Date: 02-29-88  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**E30**      **ARCO DAY STORAGE FACILITY (FORMER)**  
**WSW**      **6950 WORLD WAY W**  
**1/4-1/2**      **LOS ANGELES, CA 90045**  
**0.372 mi.**  
**1962 ft.**      **Site 6 of 11 in cluster E**

**LUST**      **U001560433**  
**HIST UST**      **N/A**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**110 ft.**

Region: STATE  
Case Type: Soil only  
Cross Street: Not reported  
Enf Type: Not reported  
Funding: Not reported  
How Discovered: OM  
How Stopped: Not reported  
Leak Cause: UNK  
Leak Source: Other Source  
Global Id: T0603701080  
Stop Date: 1983-10-15 00:00:00  
Confirm Leak: Not reported  
Workplan: Not reported  
Prelim Assess: Not reported  
Pollution Char: 1999-06-14 00:00:00  
Remed Plan: Not reported  
Remed Action: Not reported  
Monitoring: Not reported  
Close Date: 2000-09-28 00:00:00  
Discover Date: 1983-10-15 00:00:00  
Enforcement Dt: Not reported  
Release Date: 1999-06-14 00:00:00  
Review Date: 2001-02-16 00:00:00  
Enter Date: Not reported  
MTBE Date: 1965-01-01 00:00:00  
GW Qualifier: <  
Soil Qualifier: Not reported  
Max MTBE GW ppb: 10  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Case Closed  
Chemical: Jet Fuel  
Contact Person: Not reported  
Responsible Party: ARCO PRODUCTS CO  
RP Address: 4 CENTERPOINTE DR., LA PALMA CA 90623-0166  
Interim: Not reported  
Oversight Prgm: LUST  
MTBE Class: Not reported  
MTBE Conc: 1  
MTBE Fuel: 0  
MTBE Tested: MTBE Detected. Site tested for MTBE and MTBE detected  
Staff: DMB  
Staff Initials: HRQ  
Lead Agency: Regional Board  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO DAY STORAGE FACILITY (FORMER) (Continued)**

**U001560433**

Local Case #: Not reported  
Case Number: 900450643  
Qty Leaked: Not reported  
Abate Method: No Action Required - incident is minor, requiring no remedial action  
Operator: Not reported  
Water System Name: Not reported  
Well Name: Not reported  
Distance To Lust: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: PRODUCT RECOVERED BY VACUUM TRUCK; 3/20/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE; 6/19/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE; 8/21/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE

**LUST:**

Region: 4  
Staff: TCS  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Regional Board  
Case Type: Soil  
Status: Case Closed  
Substance: Jet Fuel  
Cross Street: Not reported  
Global ID: T0603701080  
Enforcement Type: Not reported  
Date Leak Discovered: 10/15/1983  
Date Leak Record Entered: Not reported  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: Other Source  
Date Leak Stopped: 10/15/1983  
Date Confirmation Began: Not reported  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 14303.204536211447752787690514  
Abatement Method Used at the Site: No Action Required  
Source of Cleanup Funding: No Action Required  
Date Leak First Reported: 6/14/1999  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 6/14/1999  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: 9/28/2000  
Date Case Last Changed on Database: 2/16/2001  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: 1/1/1965  
Hist Max MTBE Conc in Groundwater: 10  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: <  
Soil Qualifier: Not reported  
Organization: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO DAY STORAGE FACILITY (FORMER) (Continued)**

**U001560433**

Regional Board: 04  
Owner Contact: Not reported  
Responsible Party: ARCO PRODUCTS CO  
RP Address: 4 CENTERPOINTE DR., LA PALMA CA 90623-0166  
Program: LUST  
Lat/Long: 33.9425858 / -1  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Local Case No: Not reported  
Substance Quantity: Not reported  
Assigned Name: Not reported  
W Global ID: Not reported  
Summary: PRODUCT RECOVERED BY VACUUM TRUCK; 3/20/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE; 6/19/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE; 8/21/00 GW MON & ANALYTICAL DATA & REQUEST FOR CLOSURE

**HIST UST:**

Region: STATE  
Facility ID: 00000046970  
Facility Type: Other  
Other Type: Not reported  
Total Tanks: 0009  
Contact Name: JOSEPH CSISZER  
Telephone: 2133267561  
Owner Name: UNION OIL COMPANY OF CALIFORNI  
Owner Address: 461 S. BOYLSTON  
Owner City,St,Zip: LOS ANGELES, CA 90017

Tank Num: 001  
Container Num: 388  
Year Installed: Not reported  
Tank Capacity: 00040000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 385  
Year Installed: Not reported  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 386  
Year Installed: Not reported  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO DAY STORAGE FACILITY (FORMER) (Continued)**

**U001560433**

Tank Num: 004  
Container Num: 387  
Year Installed: Not reported  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 005  
Container Num: 408  
Year Installed: Not reported  
Tank Capacity: 00000050  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 006  
Container Num: 706  
Year Installed: Not reported  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 007  
Container Num: 707  
Year Installed: Not reported  
Tank Capacity: 00000050  
Tank Used for: PRODUCT  
Type of Fuel: 06  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 008  
Container Num: #4  
Year Installed: Not reported  
Tank Capacity: 00000574  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual

Tank Num: 009  
Container Num: #3  
Year Installed: Not reported  
Tank Capacity: 00000574  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Visual



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E31**  
**WSW**  
**1/4-1/2**  
**0.372 mi.**  
**1962 ft.**

**ARA SUNSET AIRPORT SYSTEMS INC**  
**6951 WORLD WAY WEST**  
**LOS ANGELES, CA 90045**

**RCRA-SQG 1000132896**  
**FINDS CAD981163033**  
**HAZNET**

**Site 7 of 11 in cluster E**

**Relative:**  
**Lower**

RCRA-SQG:

Date form received by agency: 09/01/1996  
 Facility name: ARA SUNSET AIRPORT SYSTEMS INC  
 Facility address: 6951 WORLD WAY WEST  
 LOS ANGELES, CA 90045

**Actual:**  
**110 ft.**

EPA ID: CAD981163033  
 Mailing address: WORLD WAY WEST  
 LOS ANGELES, CA 90045

Contact: Not reported  
 Contact address: Not reported  
 Not reported

Contact country: Not reported  
 Contact telephone: Not reported  
 Contact email: Not reported

EPA Region: 09  
 Classification: Small Small Quantity Generator

Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: DEPARTMENT OF AIRPORTS  
 Owner/operator address: NOT REQUIRED  
 NOT REQUIRED, ME 99999  
 Owner/operator country: Not reported  
 Owner/operator telephone: (415) 555-1212  
 Legal status: Private  
 Owner/Operator Type: Owner  
 Owner/Op start date: Not reported  
 Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
 Owner/operator address: NOT REQUIRED  
 NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
 Owner/operator telephone: (415) 555-1212  
 Legal status: Private  
 Owner/Operator Type: Operator  
 Owner/Op start date: Not reported  
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
 Mixed waste (haz. and radioactive): Unknown  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: Unknown  
 Furnace exemption: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARA SUNSET AIRPORT SYSTEMS INC (Continued)**

**1000132896**

Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZNET:**

Gepaid: CAD981163033  
Contact: R WONG-FINANCIAL CONTROLLER  
Telephone: 3103385491  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 6951 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455833  
Gen County: Los Angeles  
TSD EPA ID: CAD080013352  
TSD County: Not reported  
Waste Category: Off-specification, aged, or surplus organics  
Disposal Method: Recycler  
Tons: 0.45  
Facility County: Not reported

Gepaid: CAD981163033  
Contact: R WONG-FINANCIAL CONTROLLER  
Telephone: 3103385491  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 6951 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455833  
Gen County: Los Angeles  
TSD EPA ID: CAD080013352  
TSD County: Not reported  
Waste Category: Off-specification, aged, or surplus organics  
Disposal Method: Recycler  
Tons: 0.45  
Facility County: Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**E32**      **ARCO DAY STORAGE FACILITY**  
**WSW**      **6950 WORLD**  
**1/4-1/2**    **LOS ANGELES, CA 90009**  
**0.372 mi.**  
**1962 ft.**    **Site 8 of 11 in cluster E**

**Cortese**    **S103945740**  
                  **N/A**

**Relative:**      Cortese:  
**Lower**          Region:            **CORTESE**  
                     Facility Addr2:    **Not reported**

**Actual:**  
**110 ft.**

**E33**      **SUNSET AIRPORT SYSTEMS INC.**  
**WSW**      **6951 WORLD WAY W**  
**1/4-1/2**    **LOS ANGELES, CA 90045**  
**0.372 mi.**  
**1962 ft.**    **Site 9 of 11 in cluster E**

**HIST UST**    **U001561890**  
                  **N/A**

**Relative:**      **HIST UST:**  
**Lower**          Region:            **STATE**  
                     Facility ID:        **00000007602**  
**Actual:**        Facility Type:      **Other**  
**110 ft.**        Other Type:        **Not reported**  
                     Total Tanks:      **0003**  
                     Contact Name:     **MCGRATH**  
                     Telephone:        **2136463747**  
                     Owner Name:       **SUNSET AIRPORT SYSTEMS INC.**  
                     Owner Address:    **6951 WORLD WAY**  
                     Owner City,St,Zip: **LOS ANGELES, CA 90045**

Tank Num:        **001**  
Container Num:    **1**  
Year Installed:    **1983**  
Tank Capacity:    **00012000**  
Tank Used for:    **PRODUCT**  
Type of Fuel:     **REGULAR**  
Tank Construction: **1/4 inches**  
Leak Detection:   **Visual, Stock Inventor**

Tank Num:        **002**  
Container Num:    **3**  
Year Installed:    **1983**  
Tank Capacity:    **00000500**  
Tank Used for:    **PRODUCT**  
Type of Fuel:     **REGULAR**  
Tank Construction: **1/4 inches**  
Leak Detection:   **Visual, Stock Inventor**

Tank Num:        **003**  
Container Num:    **2**  
Year Installed:    **1983**  
Tank Capacity:    **00006000**  
Tank Used for:    **PRODUCT**  
Type of Fuel:     **REGULAR**  
Tank Construction: **1/4 inches**  
Leak Detection:   **Visual, Stock Inventor**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E34**            **TERMINAL ONE FUEL CORP**  
**WSW**           **6950 W WORLD WAY**  
**1/4-1/2**        **LOS ANGELES, CA 90009**  
**0.372 mi.**  
**1962 ft.**       **Site 10 of 11 in cluster E**

**CA FID UST**    **S101586627**  
**SWEEPS UST**   **N/A**

**Relative:**  
**Lower**

CA FID UST:  
 Facility ID:            19054256  
 Regulated By:        UTKNI  
 Regulated ID:        0046970  
 Cortese Code:        Not reported  
 SIC Code:             Not reported  
 Facility Phone:       2136461439  
 Mail To:               Not reported  
 Mailing Address:     1 WORLD WAY  
 Mailing Address 2:   Not reported  
 Mailing City,St,Zip: LOS ANGELES 900090000  
 Contact:               Not reported  
 Contact Phone:       Not reported  
 DUNS Number:        Not reported  
 NPDES Number:      Not reported  
 EPA ID:                Not reported  
 Comments:            Not reported  
 Status:                Inactive

**Actual:**  
**110 ft.**

SWEEPS UST:  
 Status:                Not reported  
 Comp Number:        2375  
 Number:               Not reported  
 Board Of Equalization: 44-012331  
 Ref Date:             Not reported  
 Act Date:             Not reported  
 Created Date:        Not reported  
 Tank Status:         Not reported  
 Owner Tank Id:       Not reported  
 Swrcb Tank Id:       19-050-002375-000001  
 Actv Date:            Not reported  
 Capacity:             40000  
 Tank Use:             CHEMICAL  
 Stg:                    PRODUCT  
 Content:               UNKNOWN  
 Number Of Tanks:    9

Status:                Not reported  
 Comp Number:        2375  
 Number:               Not reported  
 Board Of Equalization: 44-012331  
 Ref Date:             Not reported  
 Act Date:             Not reported  
 Created Date:        Not reported  
 Tank Status:         Not reported  
 Owner Tank Id:       Not reported  
 Swrcb Tank Id:       19-050-002375-000002  
 Actv Date:            Not reported  
 Capacity:             50000  
 Tank Use:             CHEMICAL  
 Stg:                    PRODUCT  
 Content:               UNKNOWN  
 Number Of Tanks:    Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL ONE FUEL CORP (Continued)**

**S101586627**

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000003  
Actv Date: Not reported  
Capacity: 50000  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000004  
Actv Date: Not reported  
Capacity: 50000  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000005  
Actv Date: Not reported  
Capacity: 50  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL ONE FUEL CORP (Continued)**

**S101586627**

Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000006  
Actv Date: Not reported  
Capacity: 50000  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000007  
Actv Date: Not reported  
Capacity: 50  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000008  
Actv Date: Not reported  
Capacity: 574  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 2375  
Number: Not reported  
Board Of Equalization: 44-012331  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-002375-000009  
Actv Date: Not reported  
Capacity: 574

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL ONE FUEL CORP (Continued)**

**S101586627**

Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

**E35**  
**WSW**  
**1/4-1/2**  
**0.372 mi.**  
**1962 ft.**

**OGDEN ALLIED**  
**6951 WORLD WAY**  
**LOS ANGELES, CA 90045**

**CA FID UST** **S101584942**  
**AIRS** **N/A**  
**SWEEPS UST**

**Site 11 of 11 in cluster E**

**Relative:**  
**Lower**

CA FID UST:

Facility ID: 19017199  
Regulated By: UTNKA  
Regulated ID: 00007602  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 3106465700  
Mail To: Not reported  
Mailing Address: 6951 WORLD WAY  
Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900450000  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Actual:**  
**110 ft.**

EMI:

Year: 1990  
Carbon Monoxide Emissions Tons/Yr: 19  
Air Basin: SC  
Facility ID: 39008  
Air District Name: SC  
SIC Code: 4581  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

SWEEPS UST:

Status: Not reported  
Comp Number: 818  
Number: Not reported  
Board Of Equalization: 44-011424  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OGDEN ALLIED (Continued)**

**S101584942**

Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000818-000001  
Actv Date: Not reported  
Capacity: 12000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 3

Status: Not reported  
Comp Number: 818  
Number: Not reported  
Board Of Equalization: 44-011424  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000818-000002  
Actv Date: Not reported  
Capacity: 500  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 818  
Number: Not reported  
Board Of Equalization: 44-011424  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000818-000003  
Actv Date: Not reported  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**F36** **UNITED AIRLINES MAINTENANCE BA**  
**East** **700 WORLD WAY**  
**1/4-1/2** **LOS ANGELES, CA 90009**  
**0.380 mi.**  
**2006 ft.** **Site 2 of 2 in cluster F**

**CA FID UST** **S101584134**  
**SWEEPS UST** **N/A**

**Relative:** CA FID UST:  
**Lower** Facility ID: 19008850  
Regulated By: UTKI  
**Actual:** Regulated ID: 00003698  
**108 ft.** Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 2136462134  
Mail To: Not reported  
Mailing Address: 700 WORLD WAY



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED AIRLINES MAINTENANCE BA (Continued)**

**S101584134**

Mailing Address 2: Not reported  
Mailing City,St,Zip: LOS ANGELES 900090000  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Inactive

**SWEEPS UST:**

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000001  
Actv Date: Not reported  
Capacity: 1  
Tank Use: OIL  
Stg: WASTE  
Content: WASTE OIL  
Number Of Tanks: 6

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000002  
Actv Date: Not reported  
Capacity: 1  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000003  
Actv Date: Not reported  
Capacity: 20000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED AIRLINES MAINTENANCE BA (Continued)**

**S101584134**

Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000004  
Actv Date: Not reported  
Capacity: 20000  
Tank Use: CHEMICAL  
Stg: PRODUCT  
Content: UNKNOWN  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000005  
Actv Date: Not reported  
Capacity: 25000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 247  
Number: Not reported  
Board Of Equalization: 44-010337  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-050-000247-000006  
Actv Date: Not reported  
Capacity: 25000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**G37**  
**West**  
**1/2-1**  
**0.508 mi.**  
**2683 ft.**

**AMERICAN A/L**  
**7000 WORLD WY W**  
**WESTCHESTER, CA 90045**

**LUST** **S106517245**  
**N/A**

**Site 1 of 3 in cluster G**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**107 ft.**

Region: STATE  
Case Type: Soil only  
Cross Street: PERSHING  
Enf Type: Not reported  
Funding: Not reported  
How Discovered: Tank Closure  
How Stopped: Not reported  
Leak Cause: Other Cause  
Leak Source: Piping  
Global Id: T0603701078  
Stop Date: 1991-04-02 00:00:00  
Confirm Leak: 1991-04-02 00:00:00  
Workplan: Not reported  
Prelim Assess: Not reported  
Pollution Char: Not reported  
Remed Plan: Not reported  
Remed Action: Not reported  
Monitoring: Not reported  
Close Date: Not reported  
Discover Date: 1991-04-01 00:00:00  
Enforcement Dt: Not reported  
Release Date: 1991-04-02 00:00:00  
Review Date: 1991-10-28 00:00:00  
Enter Date: 1991-10-26 00:00:00  
MTBE Date: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Max MTBE GW ppb: Not reported  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Leak being confirmed  
Chemical: Gasoline  
Contact Person: Not reported  
Responsible Party: LAX FUEL CORP.  
RP Address: 6060 AVION DR, LOS ANGELES, CA 90045  
Interim: Not reported  
Oversight Prgm: LUST  
MTBE Class: \*  
MTBE Conc: 0  
MTBE Fuel: 1  
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.  
Staff: YR  
Staff Initials: BC  
Lead Agency: Local Agency  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**S106517245**

Local Case #: Not reported  
Case Number: 900450625  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: OLD CASENO WAS 102891-01  
Water System Name: Not reported  
Well Name: Not reported  
Distance To Lust: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: Not reported

**LUST:**

Region: 4  
Staff: UNK  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Local Agency  
Case Type: Soil  
Status: Leak being confirmed  
Substance: Gasoline  
Cross Street: PERSHING  
Global ID: T0603701078  
Enforcement Type: Not reported  
Date Leak Discovered: 4/1/1991  
Date Leak Record Entered: 10/26/1991  
How Leak Discovered: Tank Closure  
How Leak Stopped: Not reported  
Cause of Leak: Other Cause  
Leak Source: Piping  
Date Leak Stopped: 4/2/1991  
Date Confirmation Began: 4/2/1991  
Operator: OLD CASENO WAS 102891-01  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 4/2/1991  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: Not reported  
Date Case Last Changed on Database: 10/28/1991  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Regional Board: 04  
Owner Contact: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**S106517245**

Responsible Party: LAX FUEL CORP.  
RP Address: 6060 AVION DR, LOS ANGELES, CA 90045  
Program: LUST  
Lat/Long: 33.944248 / -1  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Local Case No: Not reported  
Substance Quantity: Not reported  
Assigned Name: Not reported  
W Global ID: Not reported  
Summary: Not reported

**G38**  
**West**  
**1/2-1**  
**0.508 mi.**  
**2683 ft.**

**AMERICAN A/L**  
**7000 WORLD**  
**LOS ANGELES, CA 90045**

**HAZNET** **U001561814**  
**Cortese** **N/A**  
**HIST UST**

**Site 2 of 3 in cluster G**

**Relative:**  
**Lower**

**HAZNET:**  
Gepaid: CAD076205053  
Contact: AMR CORPORATION  
Telephone: 8179671069  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7000 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455823  
Gen County: Los Angeles  
TSD EPA ID: AZC950823111  
TSD County: 99  
Waste Category: Asbestos-containing waste  
Disposal Method: Not reported  
Tons: 161.8176  
Facility County: Los Angeles

**Actual:**  
**107 ft.**

Gepaid: CAD076205053  
Contact: AMR CORPORATION  
Telephone: 8179671069  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7000 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455823  
Gen County: Los Angeles  
TSD EPA ID: CAD009007626  
TSD County: Los Angeles  
Waste Category: Asbestos-containing waste  
Disposal Method: Disposal, Land Fill  
Tons: 375.0460  
Facility County: Los Angeles

Gepaid: CAD076205053  
Contact: AMR CORPORATION  
Telephone: 8179671069  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7000 WORLD WAY W

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**U001561814**

Mailing City,St,Zip: LOS ANGELES, CA 900455823  
Gen County: Los Angeles  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Pharmaceutical waste  
Disposal Method: Treatment, Incineration  
Tons: .0250  
Facility County: Los Angeles

Gepaid: CAD076205053  
Contact: AMR CORPORATION  
Telephone: 8179671069  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7000 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455823  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Transfer Station  
Tons: 2.3000  
Facility County: Los Angeles

Gepaid: CAD076205053  
Contact: AMR CORPORATION  
Telephone: 8179671069  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 7000 WORLD WAY W  
Mailing City,St,Zip: LOS ANGELES, CA 900455823  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Unspecified aqueous solution  
Disposal Method: Treatment, Tank  
Tons: .0166  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access  
147 additional CA\_HAZNET: record(s) in the EDR Site Report.

Cortese:  
Region: CORTESE  
Facility Addr2: Not reported

HIST UST:  
Region: STATE  
Facility ID: 00000033789  
Facility Type: Other  
Other Type: AIR CARRIER  
Total Tanks: 0014  
Contact Name: Not reported  
Telephone: 2136465513  
Owner Name: AMERICAN AIRLINES, INC.  
Owner Address: P.O. BOX 619616

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**U001561814**

Owner City,St,Zip: DFW AIRPORT, TX 75261

Tank Num: 001  
Container Num: 1  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 002  
Container Num: 13  
Year Installed: 1955  
Tank Capacity: 00001000  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: Visual

Tank Num: 003  
Container Num: 15  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 unknown  
Leak Detection: Not reported

Tank Num: 004  
Container Num: 6  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 005  
Container Num: 7  
Year Installed: 1955  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: 1/2 inches  
Leak Detection: Visual

Tank Num: 006  
Container Num: 8  
Year Installed: 1955  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: 1/2 inches  
Leak Detection: Visual

Tank Num: 007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**U001561814**

Container Num: 9  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 008  
Container Num: 10  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 009  
Container Num: 11  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 010  
Container Num: 12  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 3 inches  
Leak Detection: None

Tank Num: 011  
Container Num: 14  
Year Installed: 1955  
Tank Capacity: 00001000  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: Visual

Tank Num: 012  
Container Num: 4  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 013  
Container Num: 2  
Year Installed: 1955  
Tank Capacity: 00050000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN A/L (Continued)**

**U001561814**

Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

Tank Num: 014  
Container Num: 3  
Year Installed: 1955  
Tank Capacity: 00050000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 1/2 inches  
Leak Detection: Not reported

**G39**  
**West**  
**1/2-1**  
**0.508 mi.**  
**2683 ft.**

**AMERICAN AIRLINES INCORPORATED**  
**7000 WORLD WAY WEST**  
**LOS ANGELES, CA 90045**

**FINDS 1000360673**  
**Cortese 110000782895**  
**UST**

**Site 3 of 3 in cluster G**

**Relative:**  
**Lower**

**FINDS:**  
Other Pertinent Environmental Activity Identified at Site

**Actual:**  
**107 ft.**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

California - Hazardous Waste Tracking System - Datamart

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Cortese:  
Region: CORTESE  
Facility Addr2: Not reported

UST:  
Local Agency: Los Angeles, Los Angeles County  
Facility ID: 23947

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**40**  
**ENE**  
**1/2-1**  
**0.599 mi.**  
**3163 ft.**

**LAX TERMINAL 2**  
**200 WORLD WY**  
**WESTCHESTER, CA 90045**

**LUST** **S101297376**  
**Cortese** **N/A**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**112 ft.**

Region: STATE  
Case Type: Other ground water affected  
Cross Street: SEPULVEDA  
Enf Type: Not reported  
Funding: Not reported  
How Discovered: OM  
How Stopped: Not reported  
Leak Cause: UNK  
Leak Source: UNK  
Global Id: T0603701076  
Stop Date: Not reported  
Confirm Leak: Not reported  
Workplan: Not reported  
Prelim Assess: Not reported  
Pollution Char: 1986-07-07 00:00:00  
Remed Plan: Not reported  
Remed Action: Not reported  
Monitoring: Not reported  
Close Date: Not reported  
Discover Date: 1986-07-07 00:00:00  
Enforcement Dt: Not reported  
Release Date: 1986-07-07 00:00:00  
Review Date: 1986-07-07 00:00:00  
Enter Date: 1987-11-16 00:00:00  
MTBE Date: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Max MTBE GW ppb: Not reported  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Pollution Characterization  
Chemical: 1  
Contact Person: Not reported  
Responsible Party: DEPARTMENT OF AIRPORTS  
RP Address: 1 WORLD WY, LOS ANGELES, CA 90045  
Interim: Not reported  
Oversight Prgm: LUST  
MTBE Class: \*  
MTBE Conc: 0  
MTBE Fuel: 0  
MTBE Tested: Not Required to be Tested.  
Staff: YR  
Staff Initials: BC  
Lead Agency: Local Agency  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAX TERMINAL 2 (Continued)**

**S101297376**

Local Case #: Not reported  
Case Number: 900450607  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: OLD CASENO WAS 080007  
Water System Name: Not reported  
Well Name: Not reported  
Distance To LUST: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: UNKNOWN SOURCE. MANT OLD FUELING PITS HAD OPEN BOTTOMS AND MAY HAVE LEAKED  
SUBSTANTIAL AMOUNTS OF FUEL. CONTAMINATION WAS DISCOVERED DURING CONSTRUCTION  
TRENCHING.

**LUST:**

Region: 4  
Staff: UNK  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Local Agency  
Case Type: Groundwater  
Status: Pollution Characterization  
Substance: 1  
Cross Street: SEPULVEDA  
Global ID: T0603701076  
Enforcement Type: Not reported  
Date Leak Discovered: 7/7/1986  
Date Leak Record Entered: 11/16/1987  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: UNK  
Date Leak Stopped: Not reported  
Date Confirmation Began: Not reported  
Operator: OLD CASENO WAS 080007  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 7/7/1986  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 7/7/1986  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: Not reported  
Date Case Last Changed on Database: 7/7/1986  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAX TERMINAL 2 (Continued)**

**S101297376**

Regional Board: 04  
 Owner Contact: Not reported  
 Responsible Party: DEPARTMENT OF AIRPORTS  
 RP Address: 1 WORLD WY, LOS ANGELES, CA 90045  
 Program: LUST  
 Lat/Long: 33.944248 / -1  
 Local Agency Staff: PEJ  
 Beneficial Use: Not reported  
 Priority: Not reported  
 Cleanup Fund Id: Not reported  
 Suspended: Not reported  
 Local Case No: Not reported  
 Substance Quantity: Not reported  
 Assigned Name: Not reported  
 W Global ID: Not reported  
 Summary: UNKNOWN SOURCE. MANT OLD FUELING PITS HAD OPEN BOTTOMS AND MAY HAVE LEAKED SUBSTANTIAL AMOUNTS OF FUEL. CONTAMINATION WAS DISCOVERED DURING CONSTRUCTION TRENCHING.

Cortese:  
 Region: CORTESE  
 Facility Addr2: Not reported

**41**  
**East**  
**1/2-1**  
**0.724 mi.**  
**3820 ft.**

**TERMINAL #1 LAX**  
**100 WORLD WY**  
**WESTCHESTER, CA 90045**

**LUST S106517233**  
**N/A**

**Relative:**  
**Lower**

LUST:  
 Region: STATE  
 Case Type: Soil only  
 Cross Street: SEPULVEDA  
 Enf Type: Not reported  
 Funding: Not reported  
 How Discovered: OM  
 How Stopped: Not reported  
 Leak Cause: Other Cause  
 Leak Source: Piping  
 Global Id: T0603701075  
 Stop Date: 1990-11-06 00:00:00  
 Confirm Leak: Not reported  
 Workplan: 1990-11-06 00:00:00  
 Prelim Assess: Not reported  
 Pollution Char: Not reported  
 Remed Plan: Not reported  
 Remed Action: Not reported  
 Monitoring: Not reported  
 Close Date: Not reported  
 Discover Date: 1990-11-06 00:00:00  
 Enforcement Dt: Not reported  
 Release Date: 1990-11-06 00:00:00  
 Review Date: 1991-10-28 00:00:00  
 Enter Date: 1991-10-26 00:00:00  
 MTBE Date: Not reported  
 GW Qualifier: Not reported  
 Soil Qualifier: Not reported

**Actual:**  
**107 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL #1 LAX (Continued)**

**S106517233**

Max MTBE GW ppb: Not reported  
Max MTBE Soil ppb: Not reported  
County: 19  
Org Name: Not reported  
Reg Board: Los Angeles Region  
Status: Preliminary site assessment workplan submitted  
Chemical: Gasoline  
Contact Person: Not reported  
Responsible Party: U.S. AIR  
RP Address: SAME AS SITE  
Interim: Not reported  
Oversight Prgm: LUST  
MTBE Class: \*  
MTBE Conc: 0  
MTBE Fuel: 1  
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.  
Staff: YR  
Staff Initials: PK  
Lead Agency: Local Agency  
Local Agency: 19050  
Hydr Basin #: SAN FERNANDO VALLEY  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported  
Local Case #: Not reported  
Case Number: 900450598  
Qty Leaked: Not reported  
Abate Method: Not reported  
Operator: OLD CASENO WAS 102891-02  
Water System Name: Not reported  
Well Name: Not reported  
Distance To Lust: 0  
Waste Discharge Global ID: Not reported  
Waste Disch Assigned Name: Not reported  
Summary: Not reported

**LUST:**

Region: 4  
Staff: UNK  
County: Los Angeles  
Local Agency: 19050  
Lead Agency: Local Agency  
Case Type: Soil  
Status: Preliminary site assessment workplan submitted  
Substance: Gasoline  
Cross Street: SEPULVEDA  
Global ID: T0603701075  
Enforcement Type: Not reported  
Date Leak Discovered: 11/6/1990  
Date Leak Record Entered: 10/26/1991  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: Other Cause  
Leak Source: Piping  
Date Leak Stopped: 11/6/1990  
Date Confirmation Began: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TERMINAL #1 LAX (Continued)**

**S106517233**

Operator: OLD CASENO WAS 102891-02  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 10341.950216908443267151511886  
Abatement Method Used at the Site: Not reported  
Source of Cleanup Funding: Not reported  
Date Leak First Reported: 11/6/1990  
Preliminary Site Assessment Workplan Submitted: 11/6/1990  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Date the Case was Closed: Not reported  
Date Case Last Changed on Database: 10/28/1991  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Regional Board: 04  
Owner Contact: Not reported  
Responsible Party: U.S. AIR  
RP Address: SAME AS SITE  
Program: LUST  
Lat/Long: 33.944248 / -1  
Local Agency Staff: PEJ  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Local Case No: Not reported  
Substance Quantity: Not reported  
Assigned Name: Not reported  
W Global ID: Not reported  
Summary: Not reported

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES	S108743949	CALTRANS DIST 7 CONSTR/EA07-4J2504	RTE 1 PM 42.7-43.6 @CENTURY BLVD	90045	HAZNET
LOS ANGELES	S103679782	MURPHY INDUSTRIAL COATINGS INC	RTE 10 AT 10/60 SEPERATION		HAZNET
LOS ANGELES	S103679783	MURPHY IND COATING LOS ANGELES	RTE 134 / PASS ST OC LA RVR BR		HAZNET
LOS ANGELES	S108211956	LAX WORLD AIRPORTS	5210,13,23,28,33,45 W 94TH ST	90045	HAZNET
LOS ANGELES	S108198582	B&W LAX TRUCK REPAIR INC	5600 W ARBOR VITAE	90045	HAZNET
LOS ANGELES	S100932655	CITY OF LOS ANGELES	CAL STATE LOS ANGELES		HAZNET
LOS ANGELES	S108211962	LAX WORLD AIRPORTS	9715,9306,9734,9737,9738 HINDRY AVE	90045	HAZNET
LOS ANGELES	S102804827	BARNARD TRANSPORTATION	I-5 HWY / HWY 118 AT THE PAX		HAZNET
LOS ANGELES	S106895207	LAX FIRE DRILL PIT	0000 IMPERIAL HWY	90045	LA Co. Site Mitigation
LOS ANGELES	S107144052	YAMATO TRANSPORT	5353 W IMPERIAL HWY STE 850	90045	HAZNET
LOS ANGELES	S108209912	JALUX AMERICAS INC	6041 W IMPERIAL HWY STE D	90045	HAZNET
LOS ANGELES	S102801764	UNOCAL SO CAL. DIV. PIPE LINE	SO. IMPERIAL HWY, E. OF BLOOM-		HAZNET
LOS ANGELES	2007707152	LAX INTERNATIONAL AIRPORT	LAX INTERNATIONAL AIRPORT		HMIRS
LOS ANGELES	S102058052	SHELL OIL #204-2928-0538	1695 W PACIFIC COAST HWY		LOS ANGELES CO. HMS
LOS ANGELES	S108740844	BLU AUTOBODY GROUP INC	731 W PACIFIC COAST HWY		LOS ANGELES CO. HMS
LOS ANGELES	S107030361	THOUSAND OAKS COUNTY 1962	11100 SANTA MONICA BL. STE. 300		SWF/LF
LOS ANGELES	S108211958	LAX WORLD AIRPORTS	5334,5340,5351,5413,5440 96TH ST	90045	HAZNET
LOS ANGELES	S106483761	SAV-MOR OIL CO (FORMER)	4217 WEST THIRD ST		SLIC
LOS ANGELES	S106484026	THE GROVE AT FARMERS MARKET	6301 WEST THIRD ST		SLIC
LOS ANGELES	S106483732	LESLIE FAMILY TRUST	3566/3580 WEST THIRD ST		SLIC
LOS ANGELES	S102798959	1X MOUNTAINS RECRTN & CONCV AUTHORITY	LA TUNA CANYON ROAD / HWY 210		HAZNET
LOS ANGELES	S107541008		VEH STOP @ SO ON HWY 5/N OF STATE ST		CDL
LOS ANGELES	2007710139	400 WORLD WAY LAX	400 WORLD WAY LAX		HMIRS
LOS ANGELES	S108750153	LAX RUNWAY PROJECT	7800 WORLD WAY WEST	90045	HAZNET
LOS ANGELES	1008152660	US TRANSPORTATION SECURITY ADMIN LAX	1 WORLD WAY 6TH FLOOR	90045	FINDS
LOS ANGELES	S101617490	CHEVRON USA, LOS ANGELES AIRPO	6400 W WORLD WAY	90045	CA FID UST, SWEEPS UST
LOS ANGELES	S105083972	KIEWIT PACIFIC CO	7800 WORLD WAY WEST	90045	HAZNET
LOS ANGELES	S105938446	LAXFUEL CORP	6900,7253-7265 WORLD WAY WEST	90045	AIRS
LOS ANGELES	S106834386	LAXFUEL CORP	690 7253-7265 WORLD WEST WAY	90045	AIRS
LOS ANGELES	S108223869	US AIRWAYS - MAINTENANCE DEPARTMENT	7183 WORLD WAY - LAX	90045	HAZNET
LOS ANGELES	S108432473	MENZIES AVIATION GROUP, INC.	6951 WORLD WEST WAY	90045	AIRS
LOS ANGELES	U001561825	CHEVRON USA, LOS ANGELES AIRPO	6400 WORLD WAY WEST	90045	HIST UST
LOS ANGELES	S102800061	FAIR PRINCESS (#FP2975)	WORLD CRUISE CTR		HAZNET
LOS ANGELES	S102801068	FEDERAL AVIATION	WORLDWAY WEST 7000 BLK	90045	HAZNET
LOS ANGELES	S105937663	EUA/ONSITE, L P	7000 WORLDWAY WEST	90045	AIRS
LOS ANGELES COUNTY	S105642458	1X MCKESSON DRUG CO	2		HAZNET, LUST, CHMIRS
WESTCHESTER	S103891106	KOREAN AIRLINES FREIGHT	6101 IMPERIAL HWY E	90045	LUST
WESTCHESTER	S104581966	LONGS DRUG STORE # 430	8900 SEPULVEDA WEST WY	90045	HAZNET

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## **FEDERAL RECORDS**

### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/31/2008	Source: EPA
Date Data Arrived at EDR: 02/08/2008	Telephone: N/A
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 01/28/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly

### **NPL Site Boundaries**

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/31/2008	Source: EPA
Date Data Arrived at EDR: 02/04/2008	Telephone: N/A
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 01/28/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly

### **DELISTED NPL: National Priority List Deletions**

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/31/2008	Source: EPA
Date Data Arrived at EDR: 02/08/2008	Telephone: N/A
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 01/28/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **NPL LIENS:** Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 02/19/2008
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: No Update Planned

## **CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2008	Source: EPA
Date Data Arrived at EDR: 02/05/2008	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 04/18/2008
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/16/2008
	Data Release Frequency: Quarterly

## **CERCLIS-NFRAP:** CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/17/2008
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/16/2008
	Data Release Frequency: Quarterly

## **LIENS 2:** CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/08/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/07/2008	Telephone: 202-564-6023
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Varies

## **CORRACTS:** Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2007	Source: EPA
Date Data Arrived at EDR: 12/18/2007	Telephone: 800-424-9346
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/03/2008
Number of Days to Update: 64	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Quarterly

## **RCRA-TSDF:** RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/06/2008  
Date Data Arrived at EDR: 03/06/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 43

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/06/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **RCRA-LQG:** RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2008  
Date Data Arrived at EDR: 03/06/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 43

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/06/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **RCRA-SQG:** RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/06/2008  
Date Data Arrived at EDR: 03/06/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 43

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/06/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **RCRA-CESQG:** RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/06/2008  
Date Data Arrived at EDR: 03/06/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 43

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/06/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

## **RCRA-NonGen:** RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/06/2008  
Date Data Arrived at EDR: 03/06/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 43

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/06/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **US ENG CONTROLS:** Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/18/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2008	Telephone: 703-603-0695
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 03/31/2008
Number of Days to Update: 46	Next Scheduled EDR Contact: 06/30/2008
	Data Release Frequency: Varies

## **US INST CONTROL:** Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/18/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/31/2008	Telephone: 703-603-0695
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 03/31/2008
Number of Days to Update: 46	Next Scheduled EDR Contact: 06/30/2008
	Data Release Frequency: Varies

## **ERNS:** Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/23/2008	Telephone: 202-267-2180
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 04/22/2008
Number of Days to Update: 54	Next Scheduled EDR Contact: 07/21/2008
	Data Release Frequency: Annually

## **HMIRS:** Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/31/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/17/2008	Telephone: 202-366-4555
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 04/16/2008
Number of Days to Update: 60	Next Scheduled EDR Contact: 07/14/2008
	Data Release Frequency: Annually

## **DOT OPS:** Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 02/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/27/2008	Telephone: 202-366-4595
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 02/27/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/26/2008
	Data Release Frequency: Varies

## **CDL:** Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 12/28/2007  
Number of Days to Update: 25

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/28/2008  
Next Scheduled EDR Contact: 06/23/2008  
Data Release Frequency: Quarterly

## **US BROWNFIELDS:** A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 01/03/2008  
Date Data Arrived at EDR: 01/17/2008  
Date Made Active in Reports: 02/20/2008  
Number of Days to Update: 34

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 04/18/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Semi-Annually

## **DOD:** Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 703-692-8801  
Last EDR Contact: 02/08/2008  
Next Scheduled EDR Contact: 05/05/2008  
Data Release Frequency: Semi-Annually

## **FUDS:** Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 08/31/2007  
Date Made Active in Reports: 10/11/2007  
Number of Days to Update: 41

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 04/03/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Varies

## **LUCIS:** Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005  
Date Data Arrived at EDR: 12/11/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 31

Source: Department of the Navy  
Telephone: 843-820-7326  
Last EDR Contact: 03/10/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Varies

## **CONSENT:** Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 12/28/2007  
Number of Days to Update: 25

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 04/22/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: Varies

## **ROD:** Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/14/2008  
Date Data Arrived at EDR: 01/22/2008  
Date Made Active in Reports: 01/30/2008  
Number of Days to Update: 8

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Annually

## **UMTRA:** Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 03/17/2008  
Next Scheduled EDR Contact: 06/16/2008  
Data Release Frequency: Varies

## **ODI:** Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **DEBRIS REGION 9:** Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 12/28/2007  
Date Data Arrived at EDR: 12/28/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 27

Source: EPA, Region 9  
Telephone: 415-972-3336  
Last EDR Contact: 03/24/2008  
Next Scheduled EDR Contact: 06/23/2008  
Data Release Frequency: Varies

## **MINES:** Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/07/2008  
Date Data Arrived at EDR: 03/26/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 23

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/26/2008  
Next Scheduled EDR Contact: 06/23/2008  
Data Release Frequency: Semi-Annually

## **TRIS:** Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/29/2008  
Next Scheduled EDR Contact: 06/16/2008  
Data Release Frequency: Annually

## **TSCA:** Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Every 4 Years

**FTTS:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/22/2008  
Date Made Active in Reports: 01/30/2008  
Number of Days to Update: 8

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 03/17/2008  
Next Scheduled EDR Contact: 06/16/2008  
Data Release Frequency: Quarterly

**FTTS INSP:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/22/2008  
Date Made Active in Reports: 01/30/2008  
Number of Days to Update: 8

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 03/17/2008  
Next Scheduled EDR Contact: 06/16/2008  
Data Release Frequency: Quarterly

## **HIST FTTS:** FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## **HIST FTTS INSP:** FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## **SSTS:** Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 03/14/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Annually

## **ICIS:** Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2007  
Date Data Arrived at EDR: 08/13/2007  
Date Made Active in Reports: 10/11/2007  
Number of Days to Update: 59

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Quarterly

## **PADS:** PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007  
Date Data Arrived at EDR: 02/07/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 39

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 02/07/2008  
Next Scheduled EDR Contact: 05/05/2008  
Data Release Frequency: Annually

## **MLTS:** Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 02/07/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 39

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Quarterly

## **RADINFO:** Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/29/2008  
Date Data Arrived at EDR: 01/31/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 46

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 01/31/2008  
Next Scheduled EDR Contact: 04/28/2008  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **FINDS:** Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/04/2008	Source: EPA
Date Data Arrived at EDR: 01/10/2008	Telephone: (415) 947-8000
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/31/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/30/2008
	Data Release Frequency: Quarterly

## **RAATS:** RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 03/03/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: No Update Planned

## **BRS:** Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 03/13/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/09/2008
	Data Release Frequency: Biennially

## **STATE AND LOCAL RECORDS**

### **HIST CAL-SITES:** Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/25/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/26/2008
	Data Release Frequency: No Update Planned

### **CA BOND EXP. PLAN:** Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **SCH:** School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/26/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/27/2008	Telephone: 916-323-3400
Date Made Active in Reports: 03/27/2008	Last EDR Contact: 02/27/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 02/25/2008
	Data Release Frequency: Quarterly

## **TOXIC PITS:** Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 02/11/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: No Update Planned

## **SWF/LF (SWIS):** Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/10/2008	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 03/12/2008	Telephone: 916-341-6320
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 03/12/2008
Number of Days to Update: 33	Next Scheduled EDR Contact: 06/09/2008
	Data Release Frequency: Quarterly

## **WMUDS/SWAT:** Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 03/03/2008
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Quarterly

## **CA WDS:** Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 03/17/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/16/2008
	Data Release Frequency: Quarterly

## **CORTESE:** "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 05/29/2001  
Date Made Active in Reports: 07/26/2001  
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 04/21/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: No Update Planned

## **SWRCY:** Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 01/07/2008  
Date Data Arrived at EDR: 01/09/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 36

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 04/09/2008  
Next Scheduled EDR Contact: 07/07/2008  
Data Release Frequency: Quarterly

## **LUST REG 9:** Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001  
Date Data Arrived at EDR: 04/23/2001  
Date Made Active in Reports: 05/21/2001  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-637-5595  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: No Update Planned

## **LUST REG 8:** Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005  
Date Data Arrived at EDR: 02/15/2005  
Date Made Active in Reports: 03/28/2005  
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)  
Telephone: 909-782-4496  
Last EDR Contact: 02/05/2008  
Next Scheduled EDR Contact: 05/05/2008  
Data Release Frequency: Varies

## **LUST REG 6V:** Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: No Update Planned

## **LUST REG 6L:** Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003  
Date Data Arrived at EDR: 09/10/2003  
Date Made Active in Reports: 10/07/2003  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)  
Telephone: 530-542-5572  
Last EDR Contact: 03/03/2008  
Next Scheduled EDR Contact: 06/02/2008  
Data Release Frequency: No Update Planned

## **LUST REG 5:** Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 01/01/2008  
Date Data Arrived at EDR: 01/23/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 04/23/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **LUST REG 4:** Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6710  
Last EDR Contact: 03/24/2008  
Next Scheduled EDR Contact: 06/23/2008  
Data Release Frequency: No Update Planned

## **LUST REG 3:** Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 02/11/2008  
Next Scheduled EDR Contact: 05/12/2008  
Data Release Frequency: No Update Planned

## **LUST REG 2:** Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 04/07/2008  
Next Scheduled EDR Contact: 07/07/2008  
Data Release Frequency: Quarterly

## **LUST REG 1:** Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: No Update Planned

## **LUST:** Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 01/07/2008  
Date Data Arrived at EDR: 01/09/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 36

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 04/09/2008  
Next Scheduled EDR Contact: 07/07/2008  
Data Release Frequency: Quarterly

## **LUST REG 7:** Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004  
Date Data Arrived at EDR: 02/26/2004  
Date Made Active in Reports: 03/24/2004  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)  
Telephone: 760-776-8943  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 01/07/2008	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/09/2008	Telephone: 866-480-1028
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 01/09/2008
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/07/2008
	Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 02/19/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 04/07/2008
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/07/2008
	Data Release Frequency: Quarterly

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 02/11/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/12/2008
	Data Release Frequency: Semi-Annually

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 04/21/2008
Number of Days to Update: 47	Next Scheduled EDR Contact: 07/21/2008
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **SLIC REG 5:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Semi-Annually

## **SLIC REG 6V:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Semi-Annually

## **SLIC REG 6L:** SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 03/03/2008  
Next Scheduled EDR Contact: 06/02/2008  
Data Release Frequency: No Update Planned

## **SLIC REG 7:** SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 03/03/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: No Update Planned

## **SLIC REG 8:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 03/31/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Semi-Annually

## **SLIC REG 9:** Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 02/25/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 01/07/2008	Source: SWRCB
Date Data Arrived at EDR: 01/09/2008	Telephone: 916-480-1028
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 04/09/2008
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/07/2008
	Data Release Frequency: Semi-Annually

## UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2008	Source: Department of Public Health
Date Data Arrived at EDR: 03/25/2008	Telephone: 707-463-4466
Date Made Active in Reports: 04/09/2008	Last EDR Contact: 03/24/2008
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Varies

## HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/05/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/06/2008	Telephone: 916-323-3400
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 02/05/2008
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/05/2008
	Data Release Frequency: Varies

## AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/27/2007	Telephone: 916-341-5712
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 01/28/2008
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly

## SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/23/2007  
Date Made Active in Reports: 04/06/2007  
Number of Days to Update: 42

Source: Office of Emergency Services  
Telephone: 916-845-8400  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

## **NOTIFY 65:** Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993  
Date Data Arrived at EDR: 11/01/1993  
Date Made Active in Reports: 11/19/1993  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: No Update Planned

## **DEED:** Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/01/2008  
Date Data Arrived at EDR: 04/02/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 12

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 04/02/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Semi-Annually

## **VCP:** Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/26/2008  
Date Data Arrived at EDR: 02/27/2008  
Date Made Active in Reports: 03/27/2008  
Number of Days to Update: 29

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/27/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Quarterly

## **DRYCLEANERS:** Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 07/31/2007  
Date Data Arrived at EDR: 07/31/2007  
Date Made Active in Reports: 08/09/2007  
Number of Days to Update: 9

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Annually

## **WIP:** Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/25/2007  
Date Data Arrived at EDR: 01/23/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 04/23/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: Varies

## **CDL:** Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2007  
Date Data Arrived at EDR: 10/15/2007  
Date Made Active in Reports: 11/07/2007  
Number of Days to Update: 23

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 04/21/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: Varies

## **RESPONSE:** State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/26/2008  
Date Data Arrived at EDR: 02/27/2008  
Date Made Active in Reports: 03/27/2008  
Number of Days to Update: 29

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/27/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Quarterly

## **HAZNET:** Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 10/04/2007  
Date Made Active in Reports: 11/07/2007  
Number of Days to Update: 34

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 02/08/2008  
Next Scheduled EDR Contact: 05/05/2008  
Data Release Frequency: Annually

## **EMI:** Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 04/17/2007  
Date Made Active in Reports: 05/10/2007  
Number of Days to Update: 23

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 04/18/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Varies

## **ENVIROSTOR:** EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/26/2008  
Date Data Arrived at EDR: 02/27/2008  
Date Made Active in Reports: 03/27/2008  
Number of Days to Update: 29

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/27/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Quarterly

**HAULERS:** Registered Waste Tire Haulers Listing  
A listing of registered waste tire haulers.

Date of Government Version: 02/12/2008  
Date Data Arrived at EDR: 02/14/2008  
Date Made Active in Reports: 03/14/2008  
Number of Days to Update: 29

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Varies

## TRIBAL RECORDS

**INDIAN RESERV:** Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 02/08/2008  
Next Scheduled EDR Contact: 05/05/2008  
Data Release Frequency: Semi-Annually

**INDIAN ODI:** Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 02/25/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Varies

**INDIAN LUST R7:** Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2007  
Date Data Arrived at EDR: 06/14/2007  
Date Made Active in Reports: 07/05/2007  
Number of Days to Update: 21

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

**INDIAN LUST R8:** Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/20/2008  
Date Data Arrived at EDR: 03/04/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 13

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

**INDIAN LUST R1:** Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008  
Date Data Arrived at EDR: 03/14/2008  
Date Made Active in Reports: 03/20/2008  
Number of Days to Update: 6

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**INDIAN LUST R6:** Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 02/28/2008	Source: EPA Region 6
Date Data Arrived at EDR: 02/29/2008	Telephone: 214-665-6597
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Varies

**INDIAN LUST R9:** Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/26/2008	Telephone: 415-972-3372
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Quarterly

**INDIAN LUST R10:** Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/21/2008	Source: EPA Region 10
Date Data Arrived at EDR: 02/26/2008	Telephone: 206-553-2857
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Quarterly

**INDIAN LUST R4:** Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/05/2007	Source: EPA Region 4
Date Data Arrived at EDR: 10/02/2007	Telephone: 404-562-8677
Date Made Active in Reports: 10/11/2007	Last EDR Contact: 02/15/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Semi-Annually

**INDIAN UST R1:** Underground Storage Tanks on Indian Land  
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Varies

**INDIAN UST R6:** Underground Storage Tanks on Indian Land  
No description is available for this data

Date of Government Version: 02/28/2008	Source: EPA Region 6
Date Data Arrived at EDR: 02/29/2008	Telephone: 214-665-7591
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 02/15/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Semi-Annually

**INDIAN UST R7:** Underground Storage Tanks on Indian Land  
No description is available for this data

Date of Government Version: 06/01/2007	Source: EPA Region 7
Date Data Arrived at EDR: 06/14/2007	Telephone: 913-551-7003
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 02/15/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/19/2008
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **INDIAN UST R9:** Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 02/25/2008  
Date Data Arrived at EDR: 02/26/2008  
Date Made Active in Reports: 03/20/2008  
Number of Days to Update: 23

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **INDIAN UST R4:** Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2007  
Date Data Arrived at EDR: 10/02/2007  
Date Made Active in Reports: 10/11/2007  
Number of Days to Update: 9

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Semi-Annually

## **INDIAN UST R5:** Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 12/21/2007  
Date Data Arrived at EDR: 12/21/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 34

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 12/21/2007  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

## **INDIAN UST R10:** Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 02/21/2008  
Date Data Arrived at EDR: 02/26/2008  
Date Made Active in Reports: 03/20/2008  
Number of Days to Update: 23

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **INDIAN UST R8:** Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 02/20/2008  
Date Data Arrived at EDR: 03/04/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 13

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 02/15/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Quarterly

## **EDR PROPRIETARY RECORDS**

### **Manufactured Gas Plants:** EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COUNTY RECORDS

### **ALAMEDA COUNTY:**

#### **Contaminated Sites**

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/28/2008  
Date Data Arrived at EDR: 01/29/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 16

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/21/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: Semi-Annually

#### **Underground Tanks**

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/28/2008  
Date Data Arrived at EDR: 01/29/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 10

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/21/2008  
Next Scheduled EDR Contact: 07/21/2008  
Data Release Frequency: Semi-Annually

### **CONTRA COSTA COUNTY:**

#### **Site List**

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/07/2008  
Date Data Arrived at EDR: 03/11/2008  
Date Made Active in Reports: 03/27/2008  
Number of Days to Update: 16

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 02/25/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Semi-Annually

### **FRESNO COUNTY:**

#### **CUPA Resources List**

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/16/2008  
Date Data Arrived at EDR: 01/17/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 28

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 04/18/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Semi-Annually

### **KERN COUNTY:**

#### **Underground Storage Tank Sites & Tank Listing**

Kern County Sites and Tanks Listing.

Date of Government Version: 12/17/2007  
Date Data Arrived at EDR: 12/18/2007  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 52

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 04/16/2008  
Next Scheduled EDR Contact: 06/02/2008  
Data Release Frequency: Quarterly

### **LOS ANGELES COUNTY:**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 07/07/1999  
Date Made Active in Reports: N/A  
Number of Days to Update: 0

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: No Update Planned

## HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/29/2007  
Date Data Arrived at EDR: 01/22/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 23

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 02/11/2008  
Next Scheduled EDR Contact: 05/12/2008  
Data Release Frequency: Semi-Annually

## List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 02/12/2008  
Date Data Arrived at EDR: 02/21/2008  
Date Made Active in Reports: 03/27/2008  
Number of Days to Update: 35

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 02/14/2008  
Next Scheduled EDR Contact: 05/12/2008  
Data Release Frequency: Varies

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2008  
Date Data Arrived at EDR: 03/20/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 25

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 03/12/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Varies

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/30/2007  
Date Data Arrived at EDR: 07/11/2007  
Date Made Active in Reports: 08/09/2007  
Number of Days to Update: 29

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 02/11/2008  
Next Scheduled EDR Contact: 05/12/2008  
Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/11/2008  
Date Data Arrived at EDR: 02/21/2008  
Date Made Active in Reports: 03/14/2008  
Number of Days to Update: 22

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 02/11/2008  
Next Scheduled EDR Contact: 05/12/2008  
Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003  
Date Data Arrived at EDR: 10/23/2003  
Date Made Active in Reports: 11/26/2003  
Number of Days to Update: 34

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/26/2008	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 02/27/2008	Telephone: 310-618-2973
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 02/25/2008
Number of Days to Update: 16	Next Scheduled EDR Contact: 05/12/2008
	Data Release Frequency: Semi-Annually

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/04/2008	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 02/21/2008	Telephone: 415-499-6647
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 01/28/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Semi-Annually

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008	Telephone: 707-253-4269
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 04/07/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Semi-Annually

### Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008	Telephone: 707-253-4269
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 04/21/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Annually

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 03/03/2008	Source: Health Care Agency
Date Data Arrived at EDR: 03/20/2008	Telephone: 714-834-3446
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 03/06/2008
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/03/2008	Source: Health Care Agency
Date Data Arrived at EDR: 03/25/2008	Telephone: 714-834-3446
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 03/06/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/03/2008	Source: Health Care Agency
Date Data Arrived at EDR: 03/18/2008	Telephone: 714-834-3446
Date Made Active in Reports: 04/09/2008	Last EDR Contact: 03/06/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 07/23/2007	Telephone: 530-889-7312
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 03/17/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 06/16/2008
	Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/06/2007	Source: Department of Public Health
Date Data Arrived at EDR: 08/07/2007	Telephone: 951-358-5055
Date Made Active in Reports: 09/26/2007	Last EDR Contact: 04/14/2008
Number of Days to Update: 50	Next Scheduled EDR Contact: 07/14/2008
	Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 08/06/2007	Source: Health Services Agency
Date Data Arrived at EDR: 08/07/2007	Telephone: 951-358-5055
Date Made Active in Reports: 09/24/2007	Last EDR Contact: 04/14/2008
Number of Days to Update: 48	Next Scheduled EDR Contact: 07/14/2008
	Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/11/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 02/27/2008	Telephone: 916-875-8406
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 02/27/2008
Number of Days to Update: 16	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly

### ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/11/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 02/27/2008	Telephone: 916-875-8406
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 02/27/2008
Number of Days to Update: 16	Next Scheduled EDR Contact: 04/28/2008
	Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/18/2008  
Date Data Arrived at EDR: 03/19/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 26

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 03/03/2008  
Next Scheduled EDR Contact: 12/03/2007  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005  
Date Data Arrived at EDR: 05/18/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 29

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 04/02/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Quarterly

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/2007  
Date Data Arrived at EDR: 02/05/2008  
Date Made Active in Reports: 02/14/2008  
Number of Days to Update: 9

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Varies

### Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 11/28/2007  
Date Data Arrived at EDR: 03/13/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 32

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 04/23/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Varies

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 03/03/2008  
Date Data Arrived at EDR: 03/04/2008  
Date Made Active in Reports: 03/14/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 03/03/2008  
Next Scheduled EDR Contact: 06/02/2008  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 03/03/2008	Source: Department of Public Health
Date Data Arrived at EDR: 03/04/2008	Telephone: 415-252-3920
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 03/03/2008
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 02/01/2008	Source: Environmental Health Department
Date Data Arrived at EDR: 02/26/2008	Telephone: N/A
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 04/14/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/14/2008
	Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/31/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 02/01/2008	Telephone: 650-363-1921
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 04/07/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/07/2008
	Data Release Frequency: Annually

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 01/09/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 01/11/2008	Telephone: 650-363-1921
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 04/07/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/07/2008
	Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

### HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005	Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005	Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 03/24/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: No Update Planned

### LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 02/01/2008	Source: Department of Environmental Health
Date Data Arrived at EDR: 02/05/2008	Telephone: 408-918-3417
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 04/14/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 03/04/2008	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 03/04/2008	Telephone: 408-277-4659
Date Made Active in Reports: 03/14/2008	Last EDR Contact: 03/03/2008
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/02/2008
	Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/24/2007	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 10/23/2007	Telephone: 707-784-6770
Date Made Active in Reports: 11/07/2007	Last EDR Contact: 03/24/2008
Number of Days to Update: 15	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Quarterly

### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 01/07/2008	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 01/30/2008	Telephone: 707-784-6770
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 03/24/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/23/2008
	Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/22/2008	Source: Department of Health Services
Date Data Arrived at EDR: 01/22/2008	Telephone: 707-565-6565
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 04/21/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/21/2008
	Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 03/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 06/30/2008
	Data Release Frequency: Semi-Annually

## VENTURA COUNTY:

### Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/27/2008  
Date Data Arrived at EDR: 03/25/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 20

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/12/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Quarterly

## **Inventory of Illegal Abandoned and Inactive Sites**

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2007  
Date Data Arrived at EDR: 08/29/2007  
Date Made Active in Reports: 09/26/2007  
Number of Days to Update: 28

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 02/19/2008  
Next Scheduled EDR Contact: 05/19/2008  
Data Release Frequency: Annually

## **Listing of Underground Tank Cleanup Sites**

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/27/2008  
Date Data Arrived at EDR: 03/25/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 20

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/12/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Quarterly

## **Underground Tank Closed Sites List**

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 12/26/2007  
Date Data Arrived at EDR: 01/09/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 30

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 04/09/2008  
Next Scheduled EDR Contact: 07/07/2008  
Data Release Frequency: Quarterly

## **YOLO COUNTY:**

### **Underground Storage Tank Comprehensive Facility Report**

Underground storage tank sites located in Yolo county.

Date of Government Version: 01/29/2008  
Date Data Arrived at EDR: 02/20/2008  
Date Made Active in Reports: 03/14/2008  
Number of Days to Update: 23

Source: Yolo County Department of Health  
Telephone: 530-666-8646  
Last EDR Contact: 04/14/2008  
Next Scheduled EDR Contact: 07/14/2008  
Data Release Frequency: Annually

## **OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### **CT MANIFEST: Hazardous Waste Manifest Data**

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 06/15/2007  
Date Made Active in Reports: 08/20/2007  
Number of Days to Update: 66

Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 03/14/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **NJ MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 09/30/2007  
Date Data Arrived at EDR: 12/04/2007  
Date Made Active in Reports: 12/31/2007  
Number of Days to Update: 27

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 04/03/2008  
Next Scheduled EDR Contact: 06/30/2008  
Data Release Frequency: Annually

## **NY MANIFEST:** Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/15/2008  
Date Data Arrived at EDR: 02/28/2008  
Date Made Active in Reports: 04/09/2008  
Number of Days to Update: 41

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 02/28/2008  
Next Scheduled EDR Contact: 05/26/2008  
Data Release Frequency: Annually

## **PA MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 12/21/2007  
Date Made Active in Reports: 01/10/2008  
Number of Days to Update: 20

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 03/10/2008  
Next Scheduled EDR Contact: 06/09/2008  
Data Release Frequency: Annually

## **RI MANIFEST:** Manifest information

Hazardous waste manifest information

Date of Government Version: 10/01/2007  
Date Data Arrived at EDR: 11/09/2007  
Date Made Active in Reports: 01/15/2008  
Number of Days to Update: 67

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 03/17/2008  
Next Scheduled EDR Contact: 06/16/2008  
Data Release Frequency: Annually

## **WI MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 04/27/2007  
Date Made Active in Reports: 06/08/2007  
Number of Days to Update: 42

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 04/07/2008  
Next Scheduled EDR Contact: 07/07/2008  
Data Release Frequency: Annually

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## **Electric Power Transmission Line Data**

Source: PennWell Corporation

Telephone: (800) 823-6277

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## **AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## **Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## **Daycare Centers: Licensed Facilities**

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

LAX  
6981 WORLD WAY WEST  
LOS ANGELES, CA 90045

### TARGET PROPERTY COORDINATES

Latitude (North):	33.94338 - 33° 56' 36.2"
Longitude (West):	118.4121 - 118° 24' 43.6"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	369501.2
UTM Y (Meters):	3756581.8
Elevation:	116 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	33118-H4 VENICE, CA
Most Recent Revision:	1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

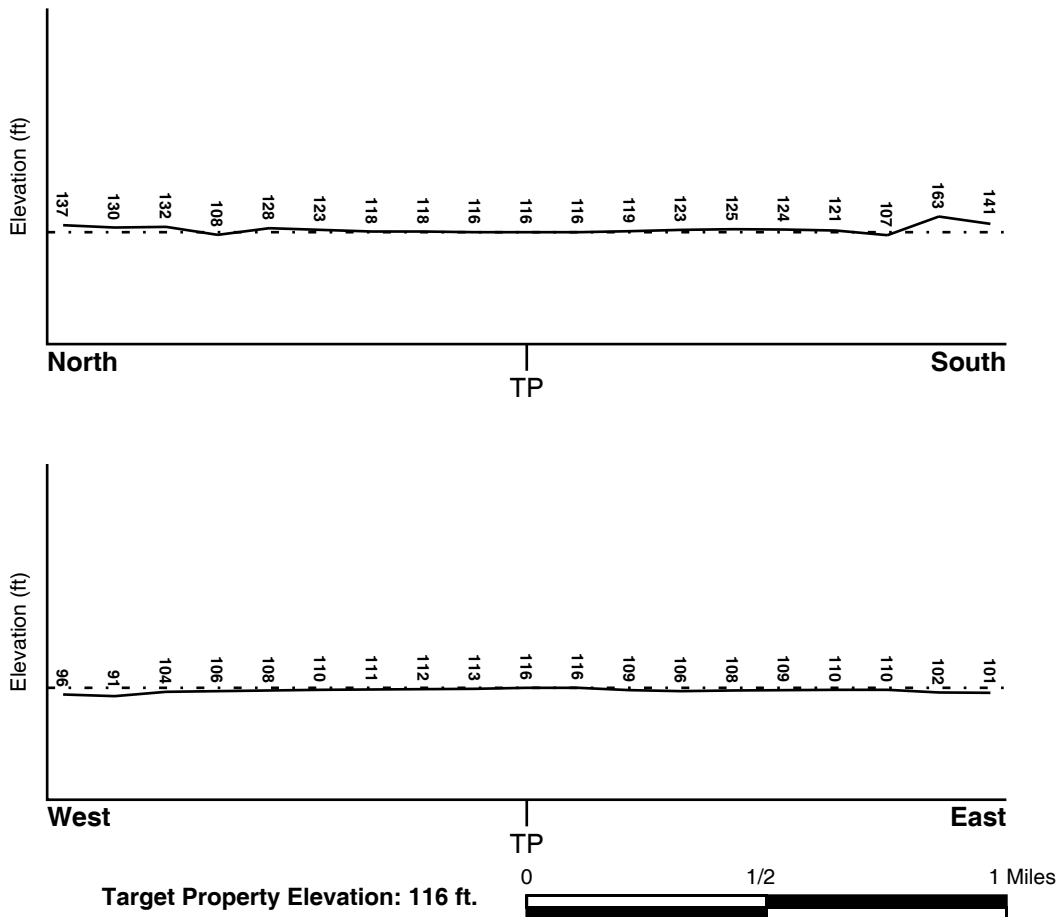
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Target Property County</u> LOS ANGELES, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0601370089D
Additional Panels in search area:	0601180000A

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> VENICE	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### *Site-Specific Hydrogeological Data\*:*

Search Radius:	1.25 miles
Status:	Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

\* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: DELHI

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessive. Soils have high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 6.10
2	10 inches	30 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 6.10
3	30 inches	50 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 6.10
4	50 inches	70 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.80 Min: 6.10

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: coarse sand  
silt loam  
sandy loam  
gravelly - sand  
loamy sand  
clay

Surficial Soil Types: coarse sand  
silt loam  
sandy loam  
gravelly - sand  
loamy sand

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

clay

Shallow Soil Types:    fine sandy loam  
                               gravelly - loam  
                               sandy clay loam  
                               sandy clay

Deeper Soil Types:    coarse sand  
                               silty clay loam  
                               gravelly - fine sandy loam  
                               stratified  
                               gravelly - sandy loam  
                               weathered bedrock  
                               clay loam

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

**FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS3156401	1/2 - 1 Mile NNW
A2	USGS3156402	1/2 - 1 Mile NNW
A3	USGS3156405	1/2 - 1 Mile NNW
A4	USGS3156404	1/2 - 1 Mile NNW
A5	USGS3156403	1/2 - 1 Mile NNW

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION  
FROM TP

No Wells Found

## OTHER STATE DATABASE INFORMATION

## STATE OIL/GAS WELL INFORMATION

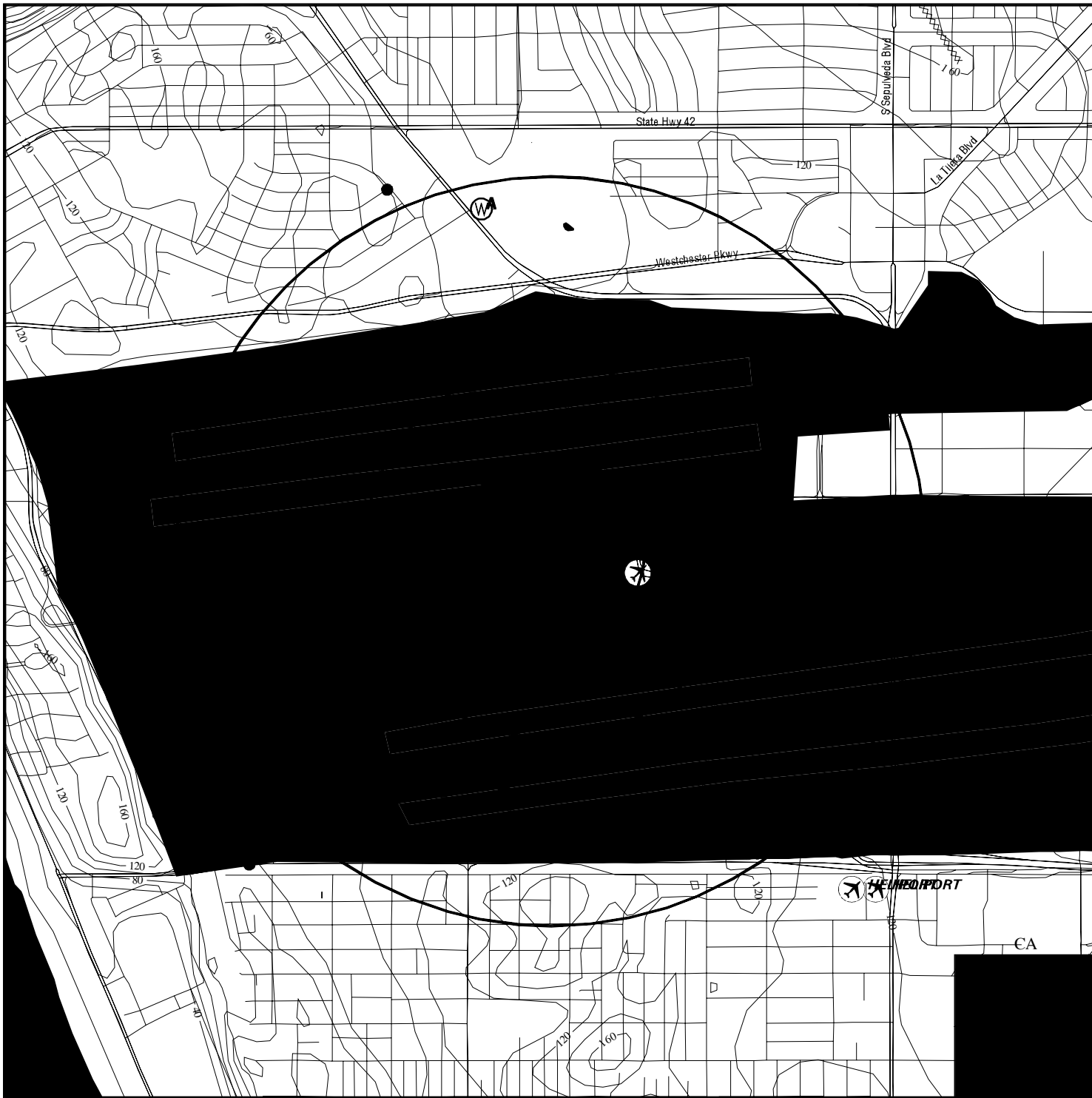
DISTANCE  
FROM TP (Miles)

0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North

DISTANCE  
FROM TP (Miles)

0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North  
0 - 1/8 Mile North

# PHYSICAL SETTING SOURCE MAP - 2204076.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: LAX  
 ADDRESS: 6981 WORLD WAY WEST  
 LOS ANGELES CA 90045  
 LAT/LONG: 33.9434 / 118.4121

CLIENT: Camp, Dresser & McKee, Inc.  
 CONTACT: SIBEL TEKCE  
 INQUIRY #: 2204076.1s  
 DATE: April 24, 2008 3:25 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3156401**

Agency cd:	USGS	Site no:	335723118245501
Site name:	002S015W35A001S		
Latitude:	335723.86		
Longitude:	1182455.20	Dec lat:	33.95662778
Dec lon:	-118.41533333	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	Venice	Map scale:	24000
Altitude:	125		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20011011
Date inventoried:	20011204	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	860	Hole depth:	897.5
Source of depth data:	reporting agency (generally USGS)		
Project number:	470651220		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2002-05-22
Water quality data end date:	2002-05-22	Water quality data count:	1
Ground water data begin date:	2001-12-27	Ground water data end date:	2002-09-25
Ground water data count:	7		

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-25	129.35		2002-07-15	129.67	
2002-07-11	129.64		2002-06-27	129.48	
2002-05-21	129.18		2002-03-26	128.29	
2001-12-27	128.76				

**A2**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3156402**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	335723118245502
Site name:	002S015W35A002S		
Latitude:	335723.86		
Longitude:	1182455.20	Dec lat:	33.95662778
Dec lon:	-118.41533333	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	Venice	Map scale:	24000
Altitude:	125		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20011011
Date inventoried:	20011204	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	580	Hole depth:	897.5
Source of depth data:	reporting agency (generally USGS)		
Project number:	470651220		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2002-05-22
Water quality data end date:	2002-05-22	Water quality data count:	1
Ground water data begin date:	2001-12-27	Ground water data end date:	2002-09-25
Ground water data count:	7		

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-25	118.05		2002-07-15	117.92	
2002-07-11	117.91		2002-06-27	117.92	
2002-05-21	118.01		2002-03-26	117.86	
2001-12-27	117.90				

**A3  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3156405**

Agency cd:	USGS	Site no:	335723118245505
Site name:	002S015W35A005S		
Latitude:	335723.86		
Longitude:	1182455.20	Dec lat:	33.95662778
Dec lon:	-118.41533333	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	Venice	Map scale:	24000

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 125  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 5  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Not Reported  
 Topographic: Flat surface  
 Site type: Ground-water other than Spring Date construction: 20011011  
 Date inventoried: 20011204 Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 235 Hole depth: 897.5  
 Source of depth data: Not Reported  
 Project number: 470651220  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00  
 Peak flow data count: 0 Water quality data begin date: 2002-05-21  
 Water quality data end date: 2002-05-21 Water quality data count: 1  
 Ground water data begin date: 2001-12-27 Ground water data end date: 2002-09-25  
 Ground water data count: 7

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-25	117.58		2002-07-15	117.17	
2002-07-11	117.11		2002-06-27	177.06	
2002-05-21	117.36		2002-03-26	117.03	
2001-12-27	117.00				

**A4  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS USGS3156404**

Agency cd: USGS Site no: 335723118245504  
 Site name: 002S015W35A004S  
 Latitude: 335723.86  
 Longitude: 1182455.20 Dec lat: 33.95662778  
 Dec lon: -118.41533333 Coord meth: G  
 Coord acc: 5 Latlong datum: NAD83  
 Dec latlong datum: NAD83 District: 06  
 State: 06 County: 037  
 Country: US Land net: Not Reported  
 Location map: Venice Map scale: 24000  
 Altitude: 125  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 5  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Not Reported  
 Topographic: Flat surface  
 Site type: Ground-water other than Spring Date construction: 20011011  
 Date inventoried: 20011204 Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 330 Hole depth: 897.5  
 Source of depth data: reporting agency (generally USGS)  
 Project number: 470651220  
 Real time data flag: 0 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 2002-05-21  
 Ground water data begin date: 2001-12-27  
 Ground water data count: 7

Water quality data begin date: 2002-05-21  
 Water quality data count: 1  
 Ground water data end date: 2002-09-25

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-25	117.44		2002-07-15	117.31	
2002-07-11	117.52		2002-06-27	117.24	
2002-05-21	117.54		2002-03-26	117.20	
2001-12-27	117.16				

**A5  
 NNW  
 1/2 - 1 Mile  
 Higher**

**FED USGS USGS3156403**

Agency cd: USGS Site no: 335723118245503  
 Site name: 002S015W35A003S  
 Latitude: 335723.86  
 Longitude: 1182455.20 Dec lat: 33.95662778  
 Dec lon: -118.41533333 Coor meth: G  
 Coor accr: 5 Latlong datum: NAD83  
 Dec latlong datum: NAD83 District: 06  
 State: 06 County: 037  
 Country: US Land net: Not Reported  
 Location map: Venice Map scale: 24000  
 Altitude: 125  
 Altitude method: Interpolated from topographic map  
 Altitude accuracy: 5  
 Altitude datum: National Geodetic Vertical Datum of 1929  
 Hydrologic: Not Reported  
 Topographic: Flat surface  
 Site type: Ground-water other than Spring Date construction: 20011011  
 Date inventoried: 20011204 Mean greenwich time offset: PST  
 Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 475 Hole depth: 897.5  
 Source of depth data: reporting agency (generally USGS)  
 Project number: 470651220  
 Real time data flag: 0  
 Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00  
 Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00  
 Peak flow data end date: 0000-00-00  
 Peak flow data count: 0  
 Water quality data begin date: 2002-05-20  
 Water quality data end date: 2002-05-21  
 Water quality data count: 1  
 Ground water data begin date: 2001-12-27  
 Ground water data end date: 2002-09-25  
 Ground water data count: 7

Ground-water levels, Number of Measurements: 7

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-25	117.67		2002-07-15	117.54	
2002-07-11	117.52		2002-06-27	117.47	
2002-05-20	117.66		2002-03-26	117.46	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2001-12-27	117.41	

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction \_\_\_\_\_ Database \_\_\_\_\_ EDR ID Number \_\_\_\_\_  
 Distance \_\_\_\_\_

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000031658**

Apinumber:	03705975	Operator:	Chevron U.S.A. Inc.
Lease:	L.A. Extension	Well no:	1
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.957366		
Longitude:	-118.418806		
Td:	6035		
Sec:	35		
Twn:	2S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	P
District:	1	Mapinfo id:	350
Site id:	CAOG30000031658		

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000030376**

Apinumber:	03705792	Operator:	Rancho Sausal Petroleum Co.
Lease:	Matteson	Well no:	1
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.941037		
Longitude:	-118.402197		
Td:	4860		
Sec:	1		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28973
Site id:	CAOG30000030376		

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000030214**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Apinumber:	03707455	Operator:	Chevron U.S.A. Inc.
Lease:	Six Companies Fee	Well no:	3
Field:	HYPERION	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.940211		
Longitude:	-118.427658		
Td:	7274		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28977
Site id:	CAOG30000030214		

**North  
0 - 1/8 Mile**

**OIL\_GAS      CAOG30000029971**

Apinumber:	03707454	Operator:	Chevron U.S.A. Inc.
Lease:	Six Companies Fee	Well no:	1
Field:	HYPERION	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	014
Source:	hud		
Latitude:	33.938787		
Longitude:	-118.425327		
Td:	0		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28975
Site id:	CAOG30000029971		

**North  
0 - 1/8 Mile**

**OIL\_GAS      CAOG30000029749**

Apinumber:	03705995	Operator:	Chevron U.S.A. Inc.
Lease:	Six Companies	Well no:	2
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.936876		
Longitude:	-118.421527		
Td:	7075		
Sec:	2		
Twn:	3S	Rge:	15W

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28976
Site id:	CAOG30000029749		

**North  
0 - 1/8 Mile**

**OIL\_GAS      CAOG30000029737**

Apinumber:	03707456	Operator:	Chevron U.S.A. Inc.
Lease:	Six Companies Fee	Well no:	4
Field:	HYPERION	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	014
Source:	hud		
Latitude:	33.936785		
Longitude:	-118.427389		
Td:	0		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28978
Site id:	CAOG30000029737		

**North  
0 - 1/8 Mile**

**OIL\_GAS      CAOG30000029558**

Apinumber:	03707457	Operator:	Chevron U.S.A. Inc.
Lease:	Six Companies Fee	Well no:	5
Field:	HYPERION	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	014
Source:	hud		
Latitude:	33.934951		
Longitude:	-118.426704		
Td:	0		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28979
Site id:	CAOG30000029558		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction \_\_\_\_\_ Database \_\_\_\_\_ EDR ID Number \_\_\_\_\_  
 Distance \_\_\_\_\_

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000029504**

Apinumber:	03705164	Operator:	ARCO Western Energy
Lease:	Pacific Southwest	Well no:	1
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.93415		
Longitude:	-118.413384		
Td:	5244		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	28974
Site id:	CAOG30000029504		

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000029361**

Apinumber:	03707451	Operator:	ARCO Western Energy
Lease:	Pacific Southwest	Well no:	2
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	33.931235		
Longitude:	-118.425211		
Td:	3938		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	30750
Site id:	CAOG30000029361		

**North**  
**0 - 1/8 Mile**

**OIL\_GAS CAOG30000029362**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Apinumber:	Not Reported	Operator:	Not Reported
Lease:	Pacific Southwest	Well no:	2
Field:	LOS ANGELES COUNTY	Caoilgas m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	Not Reported		
Latitude:	33.931235		
Longitude:	-118.425211		
Td:	3938		
Sec:	2		
Twn:	3S	Rge:	15W
Bm:	SB		
X coord1:	0		
Y coord1:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Mapinfo id:	31200
Site id:	CAOG30000029362		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
90045	38	4	10.53

Federal EPA Radon Zone for LOS ANGELES County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

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### Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### **USGS 7.5' Digital Elevation Model (DEM)**

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### **AQUIFLOW<sup>R</sup> Information System**

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### **Geologic Age and Rock Stratigraphic Unit**

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **STATSGO: State Soil Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### **SSURGO: Soil Survey Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## LOCAL / REGIONAL WATER AGENCY RECORDS

### **FEDERAL WATER WELLS**

#### **PWS: Public Water Systems**

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## **PWS ENF:** Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

## **USGS Water Wells:** USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## **STATE RECORDS**

### **Water Well Database**

Source: Department of Water Resources

Telephone: 916-651-9648

### **California Drinking Water Quality Database**

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## **OTHER STATE DATABASE INFORMATION**

### **California Oil and Gas Well Locations**

Source: Department of Conservation

Telephone: 916-323-1779

## **RADON**

### **State Database: CA Radon**

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

### **Area Radon Information**

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### **EPA Radon Zones**

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## **OTHER**

### **Airport Landing Facilities:** Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

### **Epicenters:** World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

**California Earthquake Fault Lines:** The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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