SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
ANNUAL AIR QUALITY MONITORING
NETWORK PLAN

July 2010

Prepared by

Rene M. Bermudez
Principal Air Quality Instrument Specialist

Philip M. Fine
Atmospheric Measurements Manager

Table of Contents

INTRODUCTION

An annual review of the Air Quality Monitoring Network is required by Federal Regulations as a means to identify and report needs for additions, relocations, or terminations of monitoring sites or instrumentation. This report describes the network of ambient air quality monitors in the jurisdiction of and operated by the South Coast Air Quality Management District (South Coast AQMD). It includes a review of actions taken during the 2009-2010 fiscal year and plans for action in the year ahead. This draft plan addresses the requirements for an annual network plan as listed in Title 40, Part 58, Section 10 of the Code of Federal Regulations (40 CFR § 58.10). The regulations require that the report be submitted to the U.S. Environmental Protection Agency (EPA) by July 1 of each year.

The South Coast AQMD staff, along with the California Air Resources Board (CARB), conducted an extensive review of the air monitoring sites in the South Coast Air Basin (SCAB) in late 1980. National Air Monitoring Stations (NAMS) or State and Local Air Monitoring Stations (SLAMS) designations, monitoring objectives, and spatial scales of representativeness were assigned to the criteria pollutants monitored by site. Since that time, the EPA Region IX and CARB staff visited all sites to confirm compliance with applicable siting criteria and related requirements. The most recent site visits occurred in 2000 to evaluate the PM2.5 monitoring network. Each year, South Coast AQMD staff conducts an annual review of its air monitoring network and submits it to the EPA. The review process focuses on current and future network air monitoring strategies and all network changes are made in consultation with the EPA and CARB. When re-locations are required, site reports are updated in the EPA's Air Quality System (AQS) to document compliance with established siting criteria for the new locations.

Public Comments

Pursuant to Federal regulations, this draft plan was made available for public inspection and comments for at least 30 days prior to submission to the EPA. Hard copies of this document were made available on June 1, 2010 at the South Coast AQMD's Public Information Desk in Diamond Bar, CA. The document was also posted to the public South Coast AQMD website at www.aqmd.gov on June 1, 2010, with links under the South Coast AQMD home page titled "Current Programs, Events and Topics." Links to the document were also provided in the "Air Quality" area of the website. The Finalized document was submitted to the EPA on July 1, 2010 to fulfill Federal regulatory requirements.

Network Design

The South Coast AQMD operates 35 permanent, 2 port study, and 5 Pb air monitoring sites in SCAB and a portion of the Salton Sea Air Basin in Coachella Valley. This area includes Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The newest permanent site was added during 2008 in Compton to replace the Lynwood air monitoring location and the newest Pb sites were added in 2010. Table 1 provides a list of monitoring locations, the EPA AQS site codes, and the pollutants measured at each site. Table 2 provides the monitoring objective and the spatial scale for each monitor at all sites.

Table 3 describes the monitoring purpose for the monitors at each site. Table 4 describes the monitoring objective, purpose, and spatial scale for continuous particulate analyzers at each site.

A new requirement of the annual network plan implemented in 2007, the monitoring purpose is the reason why a certain pollutant is being measured at a certain site. A list and description of monitoring purposes is provided below and portions are adapted from the CARB annual network plan for 2007.

Background Level monitoring is used to determine general background levels of air pollutants as they enter the SCAB.

High Concentration monitoring is conducted at sites to determine the highest concentration of an air pollutant in an area within the monitoring network. A monitoring network may have multiple high concentration sites (i.e., due to varying meteorology year to year).

Pollutant Transport is the movement of pollutant between air basins or areas within an air basin. Transport monitoring is used to assess and mitigate upwind areas when transported pollutant affects neighboring downwind areas. Also, transport monitoring is used to determine the extent of regional pollutant transport among populated areas and to rural areas.

Population Exposure monitoring is conducted to represent the air pollutant concentrations that a populated area is exposed to.

Representative Concentration monitoring is conducted to represent the air quality concentrations for a pollutant expected to be similar throughout a geographical area. These sites do not necessarily indicate the highest concentrations in the area for a particular pollutant.

Source Impact monitoring is used to determine the impact of significant sources or source categories of air quality emissions on ambient air quality. The air pollutant sources may be stationary or mobile.

Trend Analysis monitoring is useful for comparing and analyzing air pollution concentrations over time. Usually, trend analyses show the progress or lack of progress in improving air quality for an area over a period of many years.

Site Comparison monitoring is used to assess the effect on measured pollutant levels of moving a monitoring location a short distance (usually less than two miles). Some monitoring stations become no longer usable due to development, change of lease terms, or eviction. In these cases, attempts are made to conduct concurrent monitoring at the old and new site for a period of at least one year in order to compare pollutant concentrations.

Real Time Reporting/Modeling is used to provide data to EPA's AIRNOW system which reports conditions for air pollutants on a real time basis to the general public. Data is also used to provide accurate and timely air quality forecast guidance to residents of the SCAB.

Multiple purposes for measuring a pollutant at a particular site are possible. There is some overlap between monitoring objectives as defined by the EPA and given in Table 2. The monitoring purposes are provided in Table 3.

A brief description of the network for each criteria pollutant monitored is provided below:

OZONE

The South Coast AQMD operates 30 sites where ozone (O3) measurements are made as part of the Air Monitoring Network. Figure 1 in Appendix A shows the spatial distribution of these sites.

PM10

Size-selective inlet high volume samplers are operated at 22 sites to meet the requirements for PM10 Federal Reference Method (FRM) sampling. PM10 continuous analyzers are operated at 13 sampling sites. These real-time devices are capable of making hourly particulate concentration measurements. Figure 2 in Appendix A shows the spatial distribution of the sampling sites. Real-time monitors, for the most part, are clustered in the high concentration areas, with two located in the desert area where wind-blown crustal material has caused exceedences of the twenty-four hour Standard. In downwind areas of the SCAB, a large fraction of particulate is formed in the atmosphere; PM10 reaches maximum levels during late summer through early winter months. All PM10 FRM monitors operate on a one day in six day schedule, with the exception of Indio and Rubidoux which operate on one day in three day schedule.

NITROGEN DIOXIDE

The nitrogen dioxide (NO2) network consists of 26 sites. These sites are mostly located in areas of highest NO2 concentration. The spatial distribution of NO2 monitors is shown in Figure 3 in Appendix A. Review of 1992 through 2009 data indicates that the Federal annual average standard was not exceeded.

CARBON MONOXIDE

Ambient carbon monoxide (CO) monitors measure concentrations at 26 locations. Figure 4 in Appendix A, shows the spatial distribution of these sites. CO emissions, primarily from motor vehicles, show a pattern congruent with major freeway arteries.

SULFUR DIOXIDE

Sulfur dioxide (SO2) monitors are located at 7 sites. Figure 5 in Appendix A shows the spatial distribution of the sites. Most SO2 emissions come from federal transportation sources such as marine vessels. The monitors are clustered mostly in the areas where these sources are located. The federal standard has not been exceeded for nearly 30 years.

PARTICULATE LEAD

Total suspected particulate lead (Pb) measurements are collected at 15 sites as part of the network; 5 of the sites are Source Impact for Pb, and the remaining 10 sites measure ambient Pb and SO4. The spatial distribution of these sites is shown in Figure 6 in Appendix A.

In 1990, the EPA requested that the South Coast AQMD collect ambient air particulate samples near several large Pb handling (battery recycling) facilities. Long-term source impacted monitoring began in 1991. A facility in the City of Industry exceeded the federal ambient particulate Pb standard during the second quarter of Fiscal Year 1991-92. Pb monitoring at a facility in the City of Torrance ended in 1993 when measurements were consistently below the ambient standard. Sampling ended at a facility in the City of Commerce in 2006 when the business was closed. Out of the two facilities currently being monitored, the facility in the City of Vernon exceeded the old federal ambient particulate Pb standard (1.5 ug/m3 quarterly) during the first quarter of 2008; the other facility was found to remain below this level. These source-related Pb sites are also depicted in Figure 6.

On November 12, 2008, the EPA issued final revisions to the NAAQS for Pb. New network design requirements include monitoring for sources of Pb (source oriented monitoring) and urban Pb monitoring (non-source oriented). To meet this requirement, a source oriented site was established on January 1, 2010 at the Van Nuys Airport and monitoring will continue at the sites surrounding the Exide (Vernon), Quemetco (Industry), and the Trojan Battery facilities. Existing urban Pb monitoring conducted at Compton, LAX Hastings, Long Beach (North), Los Angeles (Main), Pico Rivera, Riverside Magnolia, Rubidoux, San Bernardino, Long Beach (South), and Upland exceed the minimum monitoring requirements.

Photochemical Assessment Monitoring Stations (PAMS)

The PAMS network was initiated in June 1994 at Pico Rivera and Upland, and in 1995 at Banning and Azusa, to determine speciated hydrocarbon O3 precursor compounds in ambient air. PAMS monitoring at Hawthorne commenced in June 1997 and the Burbank station became a PAMS site in July 1997. In May 2001, the Santa Clarita location was established as a PAMS site. In April 2004, the Hawthorne site was replaced by LAX Hastings, due to the end of a property lease. In August 2005, the Pico Rivera station moved to a new location one half mile south of the previous site, also due to the end of the property lease.

On October 17, 2006, the EPA issued final amendments to PAMS monitoring requirements in 40 CFR § 58. The changes made to the rule were to implement recommendations made by the PAMS workgroup formed to assess the program. The workgroup recommended changes be made to site type and monitoring objectives. During September 2008, a report from the EPA PAMS network assessment project workgroup was issued. The objectives of the workgroup were to assess how well the current PAMS network was meeting monitoring objectives, determine which sites are most useful for meeting objectives, identify potentially redundant, ineffective, or unnecessary sites, and to assess other enhanced O3 monitoring activities that may prove useful.

To address regulatory changes, site-specific observations from the PAMS network assessment project, and potential synergies between programs, South Coast AQMD made the following changes in June 2009 to the PAMS monitoring network:

- Burbank was reclassified from Type 2/1 to Type 2. This change addressed the National PAMS Network Assessment observation that Burbank should be reclassified to a Type 2 precursor site. The recommendation is consistent with the heavily urbanized/industrialized area, which is impacted by high levels of O3 precursor emissions.
- Santa Clarita was reclassified as Type 3 from Type 2. Although the National PAMS Network Assessment observed that Santa Clarita was consistent with a Type 2 site, recent data was more consistent with a Type 3 maximum O3 concentration site rather than a Type 2 O3 precursor site.
- Banning was relocated to Los Angeles (Main). The National PAMS Network Assessment observed that Banning had the lowest O3 concentrations of all the Type 2 sites and should be reclassified to a Type 3 or 4 site. Instead, to create synergies between programs, South Coast AQMD relocated the Banning PAMS site to the Los Angeles (Main) site as Type 2. This satisfies the EPA recommendation for use of the same monitoring platform and equipment to meet the objectives of multiple programs. Los Angeles (Main) is also a National Air Toxics Trends Station (NATTS), a future National Core-Multi-pollutant Monitoring Station (NCore), and an Speciation Trends Network (STN) site.
- Azusa was reclassified from Type 3 to Type 2. This proposed change addresses the National PAMS Network Assessment observation that Azusa has high Volatile Organic Compounds (VOC) and Oxides of Nitrogen (NOx) concentrations, with lower O3 concentrations. The site now more closely resembles a Type 2 O3 precursor site.
- Upland was relocated to the Rubidoux site. The National PAMS Network Assessment observed that Upland was no longer consistent with a Type 4 site and recommended reclassification to Type 3. South Coast AQMD relocated the Upland PAMS site to Rubidoux as a Type 3 location where synergies can be created among the National Air Toxics Trends Station (NATTS), National Core-Multi-pollutant Monitoring Station (NCore), and the STN programs.
- LAX Hastings and Pico Rivera remained unchanged.

Currently, manual VOC canisters are in operation at the Azusa, LAX Hastings, Rubidoux, Los Angeles (Main) and Santa Clarita air monitoring stations. During the intensive season from July 1 until September 30, VOC canisters are run every three hours for a period of twenty-four hours every 3rd day and a twenty-four hour sample is run every 6th day. During the non-intensive season from October 1 through June 30, twenty-four hour VOC canister samples are run every 6th day.

At Los Angeles (Main) and Santa Clarita air monitoring stations, during the intensive season from July 1 until September 30, carbonyl samples are run every three hours for a period of twenty-four hours every 3rd day and a twenty-four hour sample is run every 6th day. During the non-intensive season from October 1 through June 30, twenty-four hour carbonyl samples are run every 6th day.

Automated gas chromatography flame ionization detector (GC\FID) VOC systems are in operation at the Pico Rivera and Burbank air monitoring stations. During the intensive sampling season from July 1 until September 30, the GC\FID is run to collect 3-hour samples and twenty-four hour VOC canisters are run every 6th day. Like the other PAMS sites, carbonyl samples are run every three hours with one additional twenty-four hour sample run every 6th day. During the non-intensive season from October 1 through June 30, the GC/FID is idle and twenty-four hour VOC canister samples are run every 6th day and twenty-four hour carbonyl samples are run every 6th day. Rubidoux is a collocated site for VOC canister sampling and Pico Rivera is a collocated site for VOC canister and carbonyl sampling.

The first South Coast AQMD upper air meteorological monitoring station was established at Los Angeles International Airport (LAX) in 1994. Subsequent upper air stations include Ontario International Airport (ONT) installed in 1996, Moreno Valley (MOV) installed in 2001 at the Moreno Valley Municipal Water Treatment Plant in Riverside County, Irvine installed at the University of California Research and Extension Center in 2006, and Pacoima at Whiteman Airport during May 2007. The upper air stations use a combination of remote sensing and surface meteorological instrumentation, including the Vaisala (formerly Radian/URS) LAP-3000 radar wind profiler with a Radio Acoustic Sounding System (RASS), the Atmospheric Systems Corporation (formerly AeroVironment Inc.) mini Sodar acoustic wind profiler, and tower-mounted meteorological measurements of wind, pressure, temperature, relative humidity, solar radiation and ultraviolet radiation.

The PAMS network monitoring objectives and requirements are summarized in Table 6 and Figure 7 in Appendix A shows the distribution of the PAMS network.

PM2.5

A network of 17 Federal Reference Method (FRM) samplers was first implemented in January 1999. On December 26, 1999, a second Coachella Valley PM2.5 sampling site was established in Palm Springs. On June 20, 2003, PM2.5 sampling began at the South Long Beach site. The final addition to the PM2.5 FRM network occurred in October 2005, at the new Mira Loma site. This brings the total number of PM2.5 FRM sampling sites to 20. The sites are depicted in Figure 8, Appendix A and the starting date of each sampler is listed in Table 5. Collocated sampling sites include Rubidoux, Central Los Angeles, and Indio. All sites in the Network using FRM samplers are suitable for comparison against the annual PM2.5 National Ambient Air Quality Standard (NAAQS).

Continuous PM2.5 Met One Beta Attenuation Monitors (BAMs) were first deployed in fiscal year 2001–02. Sixteen monitors are now operating in the Basin, two at Rubidoux (collocated), and one each at Anaheim, Los Angeles, South Long Beach, Burbank, Mira Loma (Van Buren), and Banning. In January 2006, two additional samplers were added at Lake Elsinore and Glendora as part of the Children's Health Study. As proposed in the 2008 network plan, FEM BAM monitors were deployed during October 2008, at the Anaheim, Burbank, Long Beach (North), Los Angeles (Main), Mira Loma (Van Buren), Rubidoux, and Long Beach (South) sites. Relocated NON-FEM BAM samplers were installed at Reseda, Riverside Magnolia, Santa Clarita, Crestline, and Upland was

collocated with a FEM BAM at Rubidoux. An additional BAM sampler was deployed at Temecula during July, 2010. All FEM BAMs continue to maintain the Special Purpose Monitor designation for two years under 40 CFR § 58.20 to assess comparability to FRM samples.

PM2.5 speciation sampling is also a part of the South Coast AQMD PM2.5 program. Two STN and one South Coast AQMD Met One SASS PM2.5 samplers were deployed in March 2001 at Rubidoux. One more STN and two South Coast AQMD SASS samplers were deployed at Central Los Angeles in 2002. In 2003, SASS PM2.5 speciation samplers were installed at Fontana and Anaheim air monitoring sites. In 2004, a sampler was installed at Long Beach as part of the MATES III project, and continued to operate as part of the Port Area Monitoring Program and the 2009 Air Quality Management Plan (AQMP) Speciation Study. In January 2009, two additional South Coast AQMD SASS speciation samplers were installed at Burbank and Upland air monitoring sites, also for the 2009 AQMP Speciation Study, which concluded on January 1st 2010. Analysis of the filters from the ambient network SASS samplers are being conducted at South Coast AQMD's laboratory. The STN filters are shipped to RTI for analysis. This approach has the concurrence of CARB and the EPA, Region IX.

During April 2009, South Coast AQMD completed minor changes to the FRM monitoring schedule to enhance FEM BAM comparisons. On April, 16th, 2009 the Burbank and Mira Loma (Van Buren) FRM samplers changed to daily sampling from the current 1-in-3 day schedule and the Azusa location changed from every day sampling to 1-in-3 day sampling. Federal minimum monitoring requirements for PM2.5 are still being met and/or exceeded.

National Ambient Toxics Trends Sites (NATTS)

The NATTS program was developed to fulfill the need for long-term hazardous air pollutant (HAP) monitoring data of consistent quality nationwide. South Coast AQMD has conducted several air toxics measurement campaigns in the past, which demonstrated the variety and spatial distribution of air toxics sources across SCAB. A single air toxics measurement site cannot reflect the levels and trends of air toxics throughout the Basin. For this reason, two NATTS sites are used to characterize the South Coast Basin's air toxics levels. The first site is a central urban core site in Los Angeles that reflects concentrations and trends due primarily to urban mobile source emissions. A second, more rural, inland site at Rubidoux captures the transport of pollutants from a variety of upwind mobile and industrial sources in the most populated areas of the air basin. NATTS monitoring began in February 2007 and continues at the Los Angeles (Main) and Rubidoux air monitoring sites. During April 2010, a system audit was conducted by the EPA, which assessed the South Coast AQMD NATTS program. The audit found no major issues with the operation of the network but recommended implementation of blanking and low level concentration challenge samples. Blanking will be implemented in 2010 and low level challenge samples will be implemented in 2011.

Special Programs

Special monitoring programs are conducted for rule compliance purposes or to characterize the levels of toxic air contaminants and other criteria pollutants in sub-regional areas or communities

in the Basin, or to support modeling and planning efforts. The following is a list of special monitoring programs that were active during the past year. Note that this is being provided for informational purposes only. At this time, Special Monitoring Programs are not designated as a "Special Purpose Monitor" under 40 CFR § 58.20.

Fugitive Dust Study

In support of South Coast AQMD Rule 403 - Fugitive Dust, SSI PM10 samplers are deployed on an episodic basis upwind and downwind of potential sources as required under Rule 403. Since 2003, periodic sampling has been conducted around gravel quarries and other industries which seem to be producing large volumes of dust. This sampling will continue through 2009 and 2010. A special instrument evaluation study was also initiated to assess alternative monitoring methodologies for Rule 403 compliance testing.

Hexavalent Chrome

The South Coast AQMD has an ongoing program of collecting ambient hexavalent chromium in the vicinity of several chrome plating and cement production facilities located throughout the basin. Monitoring continues at Newport Beach, Riverside, and other locations throughout the South Coast AQMD jurisdiction.

Port Area Monitoring Program

The South Coast AQMD conducted an intensive air-monitoring program in the communities adjacent to the Ports of Los Angeles and Long Beach. Monitoring consisted of all gaseous criteria pollutants, air toxics compounds as measured in MATES-III, as well as continuous PM2.5 and PM2.5 speciation. Sampling began at four sites in February 2007. Two more sites began operation in June 2007 and an additional site was added during November, 2007. Sampling was completed in January 2009, and data quality assessment and analysis is ongoing. Monitoring activities are being coordinated with the two Ports' air monitoring programs as well as several CARB Research studies in the area.

2009 Air Quality Management Plan Speciation Study (AQMP)

Every three years, or as required by federal regulation, the South Coast AQMD prepares an Air Quality Management Plan (AQMP) outlining planned measures to bring the South Coast into attainment with federal and state ambient air quality standards. Once complete, the AQMP is submitted to CARB for inclusion in the state implementation plan (SIP). The next plan is scheduled for completion in late 2010 and will address the 24-hour $PM_{2.5}$ NAAQS. In support of the 2010 AQMP analysis and modeling efforts, an enhanced speciation network was deployed for calendar year 2009. $PM_{2.5}$ SASS samplers were installed at Burbank and Upland on January 1st, 2009 and the Long Beach (North) SASS sampler originally installed in 2004 as part of the MATES-III program and Port Area Monitoring Program continued to run in support of the AQMP. Sampling concluded sampling on January 1st 2010.

Recent or Proposed Modifications to Network

Temecula AMS

During October 2007, Southern California experienced some of the most severe wildfires in recent history. To measure particulate matter for comparison to NAAQS, South Coast AQMD has used twenty-four hour FRM filter-based PM measurements. However, providing public information based on real-time hourly data is more appropriate for fire events. Currently South Coast AQMD does not have a location to represent the Temecula Valley. During FY 2010-11, South Coast AQMD plans the establishment of a location in the Temecula Valley to monitor PM2.5 on a continuous basis.

Crestline

South Coast AQMD has been operating the Crestline station since 1973. The deteriorating state of the shelter along with compromises made to the siting criteria due to obstructions has made it a candidate for replacement. As part of regular air monitoring station improvements a new station shelter as been ordered to replace the existing trailer.

Mira Loma

South Coast AQMD has been operating the Mira Loma (Jurupa) station as part of the Children's Health Study. The deteriorating state of the leased trailer along with the compromises made to the siting criteria because of school expansion makes it a candidate for relocation to a more representative site. Concurrent monitoring began at the Mira Loma (Van Buren) station in November 2005. Comparisons between the two sites found data trends to be comparable. Closure of the Mira Loma (Jurupa) is planned during FY 2010-11.

Long Beach (South)

South Coast AQMD has been operating the Long Beach (South) station as part of the ambient air-monitoring network. Recent construction of the buildings adjacent to our air monitoring equipment compromises the siting criteria. Monitoring began at the Long Beach (Anaheim St.) site as part of the Port Area Monitoring Project during 2007. If comparison of concurrent data between the two locations demonstrates some comparability, or if the Anaheim St. site shows consistently higher levels of PM, the Long Beach (South) site may be relocated to Anaheim St. in FY 2010-11.

NCore

NCore monitoring rules require that South Coast AQMD make NCore stations operational by January 1st, 2011. To meet this goal, South Coast AQMD has installed trace level analyzers for CO, NOy and SO2 at the Rubidoux and Central Los Angeles, which are both existing STN and NATTS sites.

Air Monitoring Station Improvements

As part of the actions to enhance quality of data collected, South Coast AQMD will replace existing deteriorated shelters at the Crestline, Indio, La Habra, Pasadena, Redlands, Rubidoux, San Bernardino, and West Los Angeles sites. The new shelters will be installed at the same locations as the existing structures.

Minimum Monitoring Requirements

The South Coast AQMD jurisdictional boundary encompasses two Metropolitan Statistical Areas (MSA) as defined by the U.S. Office of Management and Budget and the U.S. Census Bureau. The Los Angeles-Long Beach-Santa Ana MSA (Code 31100) had a population of 12,365,627 based on the year 2000 U.S. Census. The Riverside-San Bernardino-Ontario MSA (Code 40140) had a population of 3,254,821 in 2000. The minimum number of monitors for each pollutant is based on MSA population as described in 40 CFR § 58 Appendix D. The SCAQMD network exceeds the minimum monitoring requirements for all criteria pollutants. Details are provided below.

O3

MSA	Min. # Monitors Required	# Monitors Active
31100	4	17
40140	2	13

PM2.5

MSA	Min. # Monitors Required	# Monitors Active
31100	3	12
40140	3	11

PM10

MSA	Min. # Monitors Required	# Monitors Active
31100	4-8	9
40140	6-10	16

NO2

MSA	Min. # Monitors Required	# Monitors Active
31100	0	17
40140	0	9

SO2

MSA	Min. # Monitors Required	# Monitors Active
31100	0	5
40140	0	2

CO

MSA	Min. # Monitors Required	# Monitors Active
31100	0	17
40140	0	9

Pb

MSA	Minimum Number of Monitors Required		Number of Monitors Active		New Minimum Requirement
	Source Impact	Urban Monitoring	Source Impact	Urban Monitoring	Urban Monitoring
31100	2	0	5	6	1
40140	0	0	0	4	1

Minimum PAMS Monitoring

South Coast AQMD Monitoring Area	Min. # Monitors Sites Required	# Monitoring Sites Active
Type 1 or 3	1	3
Type 2	2	4
Type 4	0	0

TABLE 1. List of Monitoring Sites

Location	AQS No.	Pollutants Monitored	Start Date
Anaheim	060590007	CO,NO2,O3,PM10,PM2.5	08/01
ATSF (Exide)	060371406	Pb	1/99
Azusa	060370002	CO,NO2,O3,PM10,PM2.5,SO4	01/57
Banning Airport	060650012	NO2,O3,PM10, PM2.5	04/97
Big Bear	060718001	PM2.5	02/99
Burbank	060371002	CO,NO2,SO2,O3,PM10,PM2.5	10/61
Closet World (Quemetco)	060371404	Pb	10/08
Compton	060371302	CO,NO2,O3,Pb,PM2.5	01/04
Costa Mesa	060591003	CO,NO2,SO2,O3	11/89
Crestline	060710005	O3,PM10	10/73
Fontana	060712002	CO,NO2,SO2,O3,PM10,PM2.5,SO4	08/81
Glendora	060370016	CO,NO2,O3,PM2.5,PM10	08/80
Indio	060652002	O3,PM10,PM2.5	01/83
La Habra	060595001	CO,NO2,O3	08/60
Lake Elsinore	060659001	CO,NO2,O3,PM2.5,PM10	06/87
LAX Hastings	060375005	CO,NO2,O3,PM10,Pb,SO4	04/04
Long Beach (North)	060374002	CO,NO2,SO2,O3,PM10,PM2.5,Pb,SO4	10/62
Los Angeles (Main St.)	060371103	CO,NO2,SO2,O3,PM10,Pb,PM2.5,SO4	09/79
Mira Loma (Jurupa) [1]	060650004	CO,NO2,O3,PM10	10/93
Mira Loma (Van Buren)	060658005	CO,NO2,O3,PM10,PM2.5	11/05
Mission Viejo	060592022	CO,O3,PM10,PM2.5	06/99
Norco	060650003	PM10	12/80
Ontario Fire Station	060710025	PM10,PM2.5	01/99
Palm Springs	060655001	CO,NO2,O3,PM10,PM2.5	04/71
Pasadena	060372005	CO,NO2,O3,PM2.5,SO4	04/82
Perris	060656001	O3,PM10	05/73
Pico Rivera #2	060371602	CO,NO2,O3,Pb,PM2.5,SO4,PM10	09/05
Pomona	060371701	CO,NO2,O3	06/65
Redlands	060714003	O3,PM10	09/86
Rehrig (Exide)	060371405	Pb	11/07
Reseda	060371201	CO,NO2,O3,PM2.5	03/65
Riverside (Magnolia)	060651003	CO,Pb,PM2.5,SO4	10/72
Rubidoux	060658001	CO,NO2,SO2,O3,PM10,Pb,PM2.5,SO4	09/72
San Bernardino	060719004	CO,NO2,O3,PM10,Pb,PM2.5	05/86
Santa Clarita	060376012	CO,NO2,O3,PM10,PM2.5	05/01
South Long Beach	060374004	PM10,Pb,PM2.5,SO4	06/03
Temecula [1]	TBD	O3, PM2.5	
Uddelholm (Trojan Battery)	060371403	Pb	11/92
Upland	060711004	CO,NO2,O3,Pb,PM2.5,PM10,SO4	03/73
Van Nuys Airport	060371402	Pb	1/10
West Los Angeles	060370113	CO,NO2,O3,SO4	05/84

[1] Site to be closed in Fiscal Year 2010-2011

TABLE 2. FRM/FEM Criteria Pollutant Monitoring Objective and Spatial Scales

MONITORING OBJECTIVE
HC – High Concentrations
RC – Representative Concentrations
IM – Impact
BL – Background

SPATIAL SCALE
MI – Microscale
MS – Middle Scale
NS – Neighborhood Scale
US – Urban Scale

Location	CO	NO2	SO2	O3	PM10	PM2.5	Pb
Anaheim	NS/RC	US/RC		NS/RC	NS/RC	NS/RC	
ATSF (Exide)							MI/IM
Azusa	NS/RC	US/RC		US/HC	NS/RC	NS/RC	
Banning Airport		NS/RC		NS/RC	NS/RC		
Big Bear						NS/RC	
Burbank	NS/HC	NS/RC	NS/RC	US/HC	NS/RC	NS/RC	
Closet World (Quemetco)							MI/IM
Compton	MS/HC	MS/RC		NS/RC		NS/RC	NS/RC
Costa Mesa	NS/RC	NS/RC	NS/RC	NS/RC			
Crestline				NS/HC	NS/RC		
Fontana	NS/RC	US/RC	NS/RC	US/RC	NS/HC	NS/RC	
Glendora	NS/RC	NS/RC		NS/HC			
Indio				NS/RC	NS/HC	NS/RC	
La Habra	NS/RC	US/RC		NS/RC			
Lake Elsinore	NS/RC	NS/RC		NS/RC			
LAX Hastings	MS/RC	MS/RC	NS/RC	MS/RC	NS/RC		NS/RC
Long Beach (North)	MI/HC	MS/RC	NS/HC	MS/RC	MI/RC	NS/HC	MI/RC
Los Angeles (Main St.)	NS/RC	NS/HC	NS/RC	NS/RC	NS/RC	NS/HC	NS/RC
Mira Loma (Jurupa)[2]	NS/RC	NS/RC		NS/RC	NS/HC		
Mira Loma (Van Buren)	NS/RC	NS/RC		NS/RC	NS/HC	NS/RC	
Mission Viejo	NS/RC			NS/RC	NS/RC	NS/RC	
Norco					NS/RC		
Ontario Fire Station					NS/HC	NS/RC	
Palm Springs	NS/RC	NS/RC		NS/RC	NS/RC	NS/RC	
Pasadena	MS/RC	MS/HC		NS/RC		NS/RC	
Perris				NS/RC	NS/RC		
Pico Rivera #2	NS/RC	NS/HC		NS/HC		NS/RC	NS/RC
Pomona	MI/RC	MS/RC		MS/HC			
Redlands				NS/RC	NS/RC		
Rehrig (Exide)							MI/IM
Reseda	NS/RC	US/RC		US/HC		NS/RC	
Riverside	MI/HC	US/RC				NS/RC	MI/HC
Rubidoux	MS/RC	US/RC	NS/RC	US/HC	NS/HC	NS/HC	NS/RC
San Bernardino	MS/RC	US/RC		NS/HC	NS/HC	NS/RC	NS/RC
Santa Clarita	NS/RC	NS/RC		US/HC	NS/RC	NS/RC	
South Long Beach					NS/HC	NS/RC	NS/HC
Temecula[1]							
Uddelholm (Trojan Battery)							MI/IM
Upland	NS/RC	NS/RC		NS/RC			NS/RC
Van Nuys Airport							MI/IM
West Los Angeles	NS/RC	MS/HC		MS/RC			

[1] Site to begin operation in Fiscal Year 2009-2010
[2] Site to be closed Fiscal Year 2010-2011

TABLE 3. FRM/FEM Criteria Pollutant Monitoring Purposes

MONITORING PURPOSE

BK – Background Level
HC – High Concentration
TP – Pollutant Transport
EX – Population Exposure
SO – Source Impact
RC – Representative Concentration
SPM – Special Purpose Monitoring
TR – Trend Analysis
CP – Site Comparisons

Location	CO	NO2	SO2	O3	PM10	PM2.5	Pb
Anaheim	TR	TR/RC		TR	TR	TR/EX	
ATSF (Exide)							SO
Azusa	TR	TR/RC		TR	TR	TR/EX	
Banning Airport		TP/RC		TP	TP		
Big Bear						EX/SO/TP	
Closet World (Quemetco)							SO
Burbank	TR	TR/RC	TR	TR	TR	TR/EX	
Compton	TR/HC	TR/RC		TR/RC		EX/RC	EX
Costa Mesa	RC	TR/RC	TR	RC			
Crestline				HC	TP/RC		
Fontana	RC	TP/RC	TR	RC	HC	EX/TP	
Glendora	RC	TR/RC		HC			
Indio				TP	HC	TP/EX	
La Habra	RC	TR/RC		RC			
Lake Elsinore	TP/RC	TP/RC		TP/RC			
LAX Hastings	BK	BK	BK	BK	BK		BK
Long Beach (North)	HC	TR/RC	TR/HC	TR	TR/RC	EX/HC	EX
Los Angeles (Main St.)	SO/RC	SO/HC	TR	TR/RC	TR/RC	EX/HC	EX
Mira Loma (Jurupa)[2]	TP/RC	TP/RC		TR/RC	HC/CP		
Mira Loma (Van Buren)	CP	CP		CP	HC/CP	CP	
Mission Viejo	RC			TR/RC	TR/RC	EX/RC	
Norco					TR/RC		
Ontario Fire Station					HC	EX/RC	
Palm Springs	TP/RC	TP/RC		TP	TP/RC	EX/TP	
Pasadena	TR/RC	TR/HC		TR/RC		EX/RC	
Perris				TP	TR		
Pico Rivera #2	RC	HC		HC		EX/RC	EX
Pomona	RC	RC		HC			
Redlands				TP/RC	TP/RC		
Rehrig (Exide)							SO
Reseda	RC	TR/RC		HC		EX/RC	
Riverside	HC	TR/RC				EX/RC	EX
Rubidoux	TR/RC	TR/RC	TR	TR/HC	TR/HC	EX/TR/HC	EX
San Bernardino	TR/RC	TP/RC		TR/HC	TR/HC	EX/TR	EX
Santa Clarita	RC	TP/RC		TP/HC	RC	EX/RC	
South Long Beach					HC	EX/SO	EX
Uddelholm (Trojan Battery)							SO
Temecula[1]							
Upland	RC	TR/RC		TR/RC			EX
Van Nuys Airport							SO
West Los Angeles	RC	TR/HC		RC			

[1] Site to begin operation in Fiscal Year 2010-2011
[2] Site to be closed Fiscal Year 2010-2011

TABLE 4. Continuous $PM_{10}/PM_{2.5}$ Monitoring Purpose, Objective and Spatial Scales

MONITORING OBJECTIVE
HC – High Concentrations
RC – Representative Concentrations

SPATIAL SCALE
MI – Microscale
NS – Neighborhood Scale

TYPE
TEOM
BAM (NON-FEM)
BAM (FEM)

MONITORING PURPOSE

SO – Source Impact
TP – Pollutant Transport
TR – Trend Analysis
RM – Real-Time Reporting/Modeling
SPM – Special Purpose Monitoring

Location	Continuous PM10				Continuous PM2.5			
	Type	Purpose	Objective	Scale	Type	Purpose	Objective	Scale
Anaheim [1]	BAM	RM	RC	NS	BAM/FEM	SPM	RC	NS
Banning Airport					BAM/NON-FEM	RM	RC	NS
Burbank [1]	TEOM	RM	RC	NS	BAM/FEM	SPM	RC	NS
Crestline					BAM/NON-FEM	RM	RC	NS
Glendora	BAM	RM	RC	NS	BAM/NON-FEM	RM	RC	NS
Indio	TEOM	RM	HC	NS				
Lake Elsinore	TEOM	RM	RC	NS	BAM/NON-FEM	RM	RC	NS
Long Beach (North) [1]	BAM	RM	RC	NS	BAM/FEM	SPM	RC	NS
Los Angeles (Main St.) [1]	BAM	RM	RC	NS	BAM/FEM	SPM	HC	NS
Mira Loma (Jurupa)	TEOM	RM	HC	NS				
Mira Loma (Van Buren) [1]	BAM	RM	HC	NS	BAM/FEM	SPM	HC	NS
Palm Springs	TEOM	RM	HC	NS				
Reseda					BAM/NON-FEM	RM	RC	NS
Riverside	BAM	RM	HC	NS	BAM/NON-FEM	RM	HC	NS
Rubidoux [1]	TEOM	RM	HC	NS	BAM/FEM & NON-FEM	SPM/RM	HC	NS
San Bernardino	TEOM	RM	RC	NS				
Santa Clarita					BAM/NON-FEM	RM	RC	NS
South Long Beach [1]					BAM/FEM	SPM	RC	NS
Temecula [2]					BAM/NON-FEM	RM	RC	NS
Upland	BAM	RM	RC	NS	BAM/NON-FEM	RM	RC	NS

[1] PM2.5 FEM BAM Samplers replaced NON-FEM Samplers during FY 2008-2009 and designated as special purpose monitors
[2] Site planned during Fiscal Year 2010-2011

TABLE 5. $PM_{2.5}$ FRM Monitoring Stations Assigned Site Numbers

Location	Site Code	ARB No.	AQS No.	Start Date	Schedule
Anaheim	ANAH	30178	060590007	01/03/99	Daily
Azusa	AZUS	70060	060370002	01/04/99	1-in-3
Big Bear	BGBR	36001	060718001	02/08/99	1-in-6
Burbank[1]	BURK	70069	060371002	01/21/99	Daily
Compton	COMP	70112	060371302	11/08	1-in-3
Fontana	FONT	36197	060712002	01/03/99	1-in-3
Indio "A"	INDI	33157	060652002	01/30/99	1-in-3
Indio "B"	INDI	33157	060652002	05/12/00	1-in-6
Long Beach (North)	LGBH	70072	060374002	01/03/99	Daily
Los Angeles "A" (Main St.)	CELA	70087	060371103	01/03/99	Daily
Los Angeles "B" (Main St.)	CELA	70087	060371103	01/06/99	1-in-6
Mira Loma (Van Buren)	MRLM	33165	060658005	11/09/05	Daily
Mission Viejo	MSVJ	30002	060592022	06/15/99	1-in-3
Ontario Fire Station	ONFS	36025	060710025	01/03/99	1-in-3
Palm Springs	PLSP	33137	060655001	12/26/99	1-in-3
Pasadena	PASA	70088	060372005	03/04/99	1-in-3
Pico Rivera #2	PICO	70185	060371602	09/12/05	1-in-3
Reseda	RESE	70074	060371201	01/24/99	1-in-3
Riverside	RIVM	33146	060651003	01/06/99	1-in-3
Rubidoux "A"	RIVR	33144	060658001	01/03/99	Daily
Rubidoux "B"	RIVR	33144	060658001	01/03/99	1-in-6
San Bernardino	SNBO	36203	060719004	01/03/99	1-in-3
South Long Beach	SLGB	70110	060374004	06/20/03	Daily

[1] Changed to daily on 04/16/09 for comparison to FEM BAM

TABLE 6. PAMS Proposed Network

			July 1 to September 30		October 1 to June 30		
Site Type	**Date Established as PAMS**	**Site / AQS ID#**	**VOC**	**Carbonyl**	**VOC**	**Carbonyl**	**Additional Requirements**
1	04/01/2004	LAX Hastings (replaced Hawthorne)	8 x 3 hr samples every 3rd day and 1 x 24 hr sample every 6th day	No Sampling	1 x 24 hr sample every 6th day	No Sampling	
2	06/01/1995	Azusa	8 x 3 hr samples every 3rd day and 1 x 24 hour sample every 6th day	No Sampling	1 x 24 hr sample every 6th day	No Sampling	No/NOx required
2	07/01/1997	Burbank	Continuous GC and 1 x 24 hr sample every 6th day	8 x 3 hr samples every day and 1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	
2	06/01/2009	Los Angeles (Main)	8 x 3 hr samples every 3rd day and 1 x 24 hour sample every 6th day	8 x 3 hr samples every 3rd day and 1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	Trace level CO required at one type 2 site.
2	08/01/2005	Pico Rivera #2	Continuous GC and 1 x 24 hr sample every 6th day	8 x 3 hr samples every day and 1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	
3	06/09/2009	Rubidoux	8 x 3 hr samples every 3rd day and 1 x 24 hour sample every 6th day	No Sampling	1 x 24 hr sample every 6th day	No Sampling	NOy required
3	05/01/2001	Santa Clarita	8 x 3 hr samples every 3rd day and 1 x 24 hour sample every 6th day	8 x 3 hr samples 3rd day and 1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	1 x 24 hr sample every 6th day	

MONITORING OBJECTIVES:
1 – Upwind and background characterization site
2 – Maximum O3 precursor emissions impact site
3 – Maximum O3 concentration site
4 – Extreme downwind monitoring site

MONITORING REQUIREMENTS:
One type 1 or type 3 site required per area
One type 2 site required per area
No type 4 required

REDUCED REQUIREMENTS:
Speciated VOC only required at type 2 and one other (type 1 or 3)
Carbonyl only required in areas classified as serious or above 8 hr zone
NO/NOx required only at type 2
NOy required at one site per PAMS area (type 1 or 3)

APPENDIX A

AQMD Network Depictions

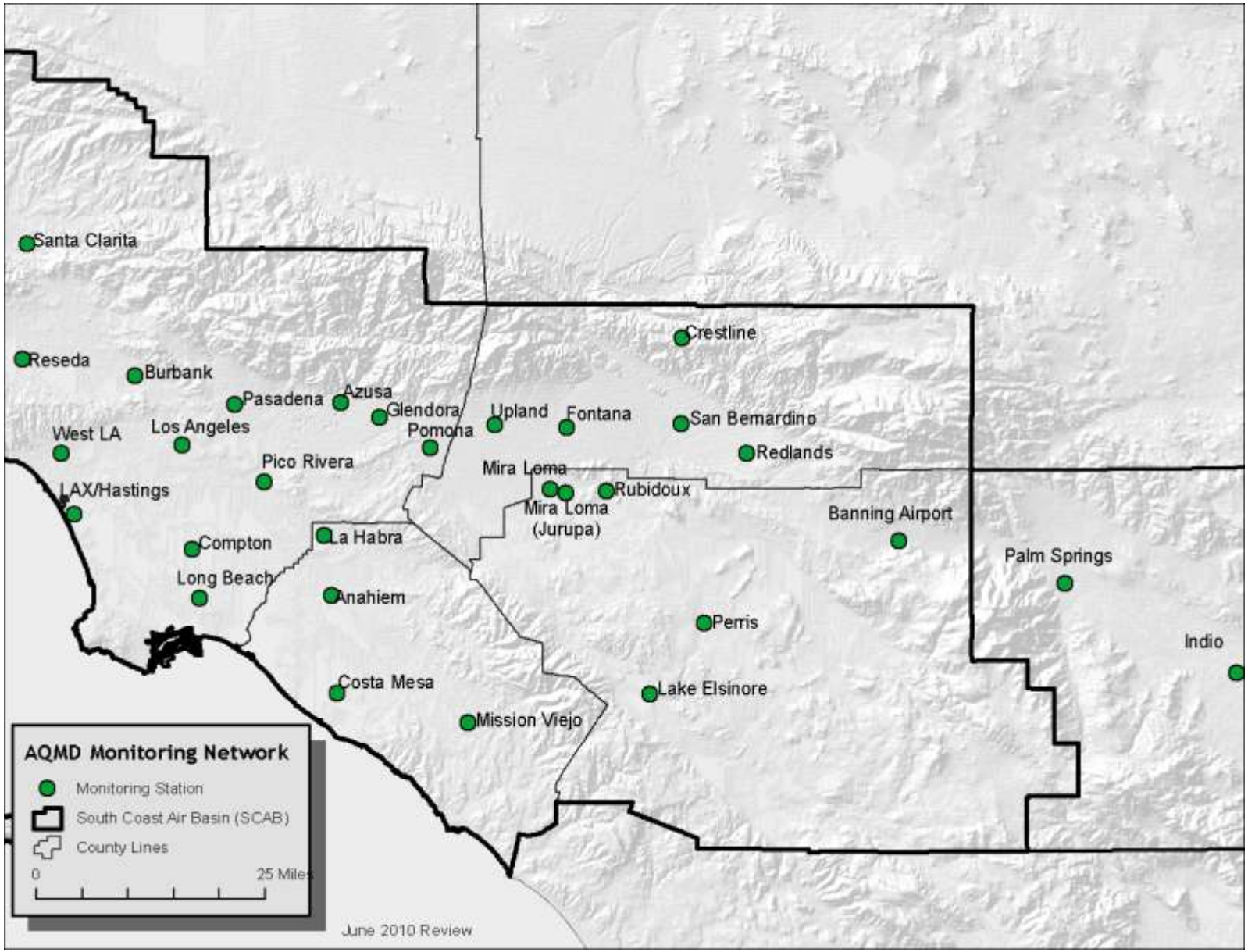


Figure 1 SCAQMD Ozone Monitoring Locations

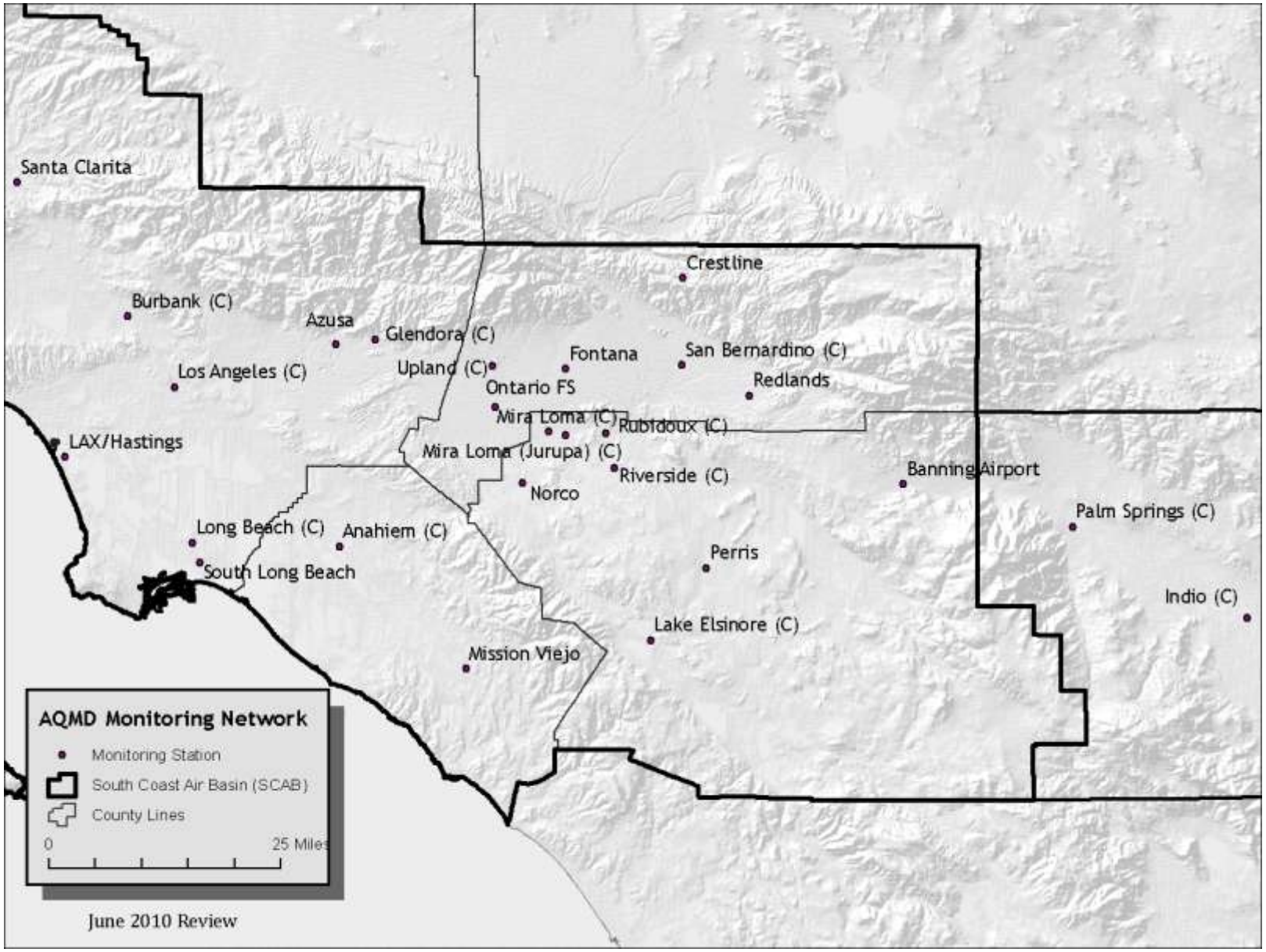


Figure 2 SCAQMD PM10 Monitoring Locations

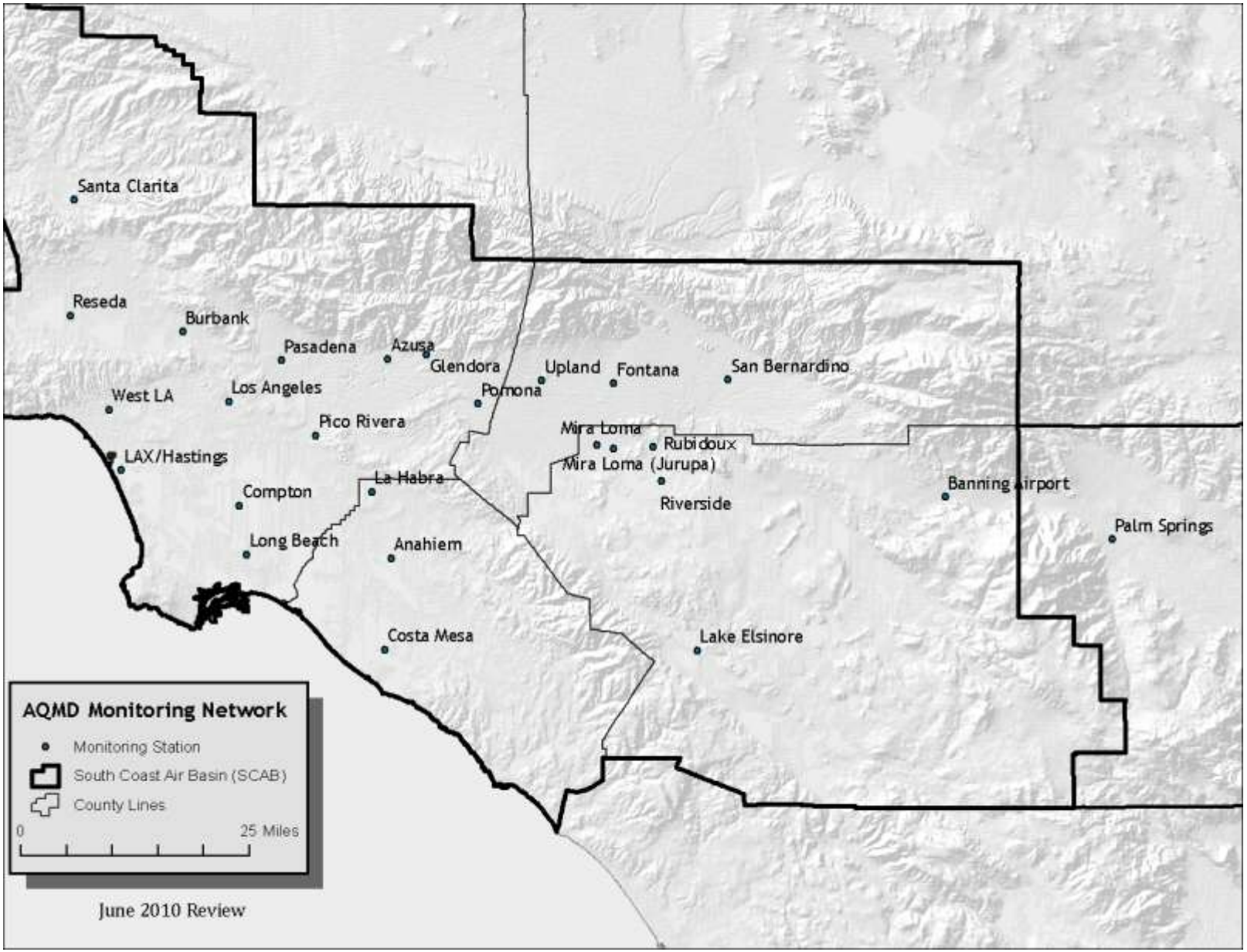


Figure 3 SCAQMD Monitoring Locations for Nitrogen Dioxide

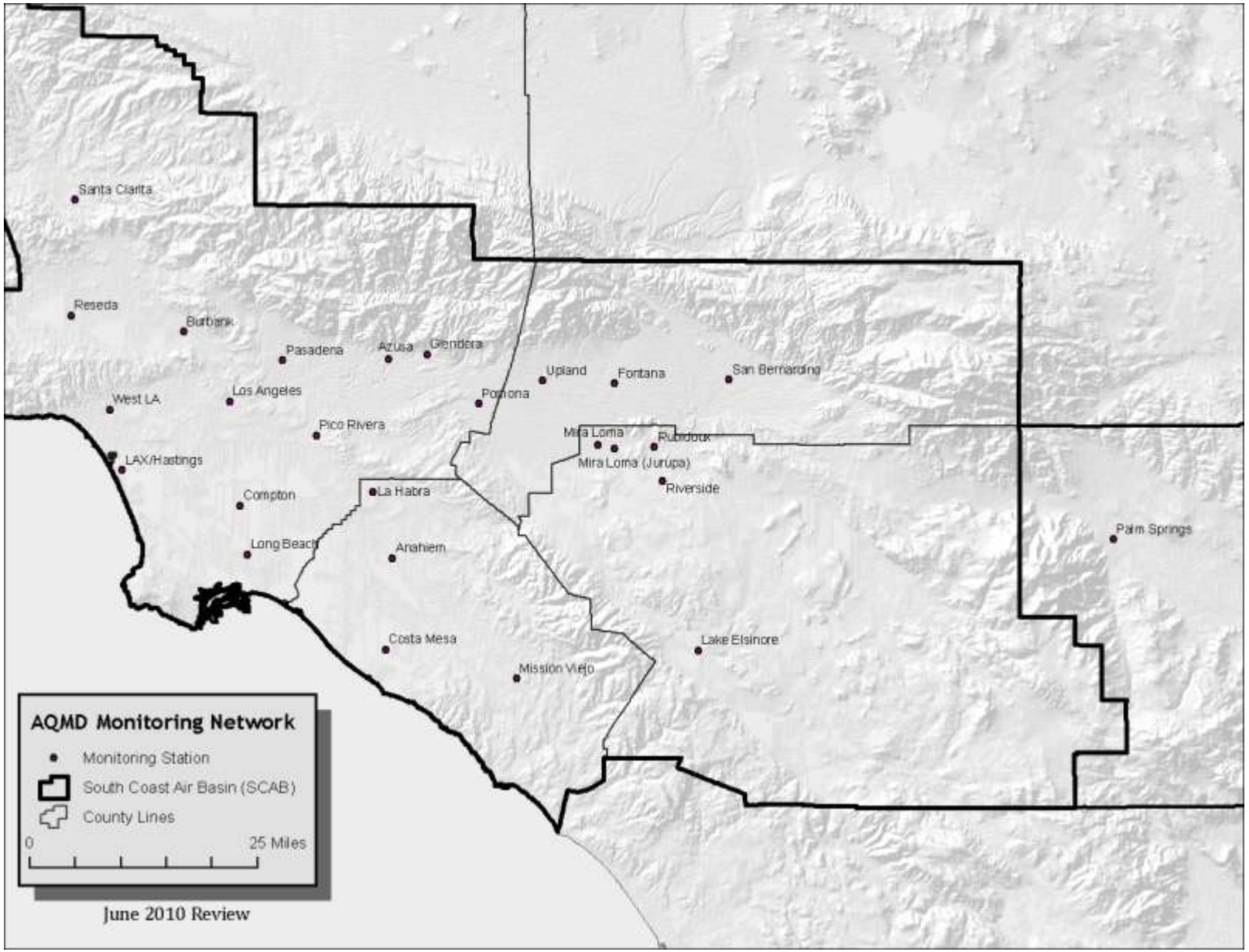


Figure 4 SCAQMD Monitoring Locations for Carbon Monoxide

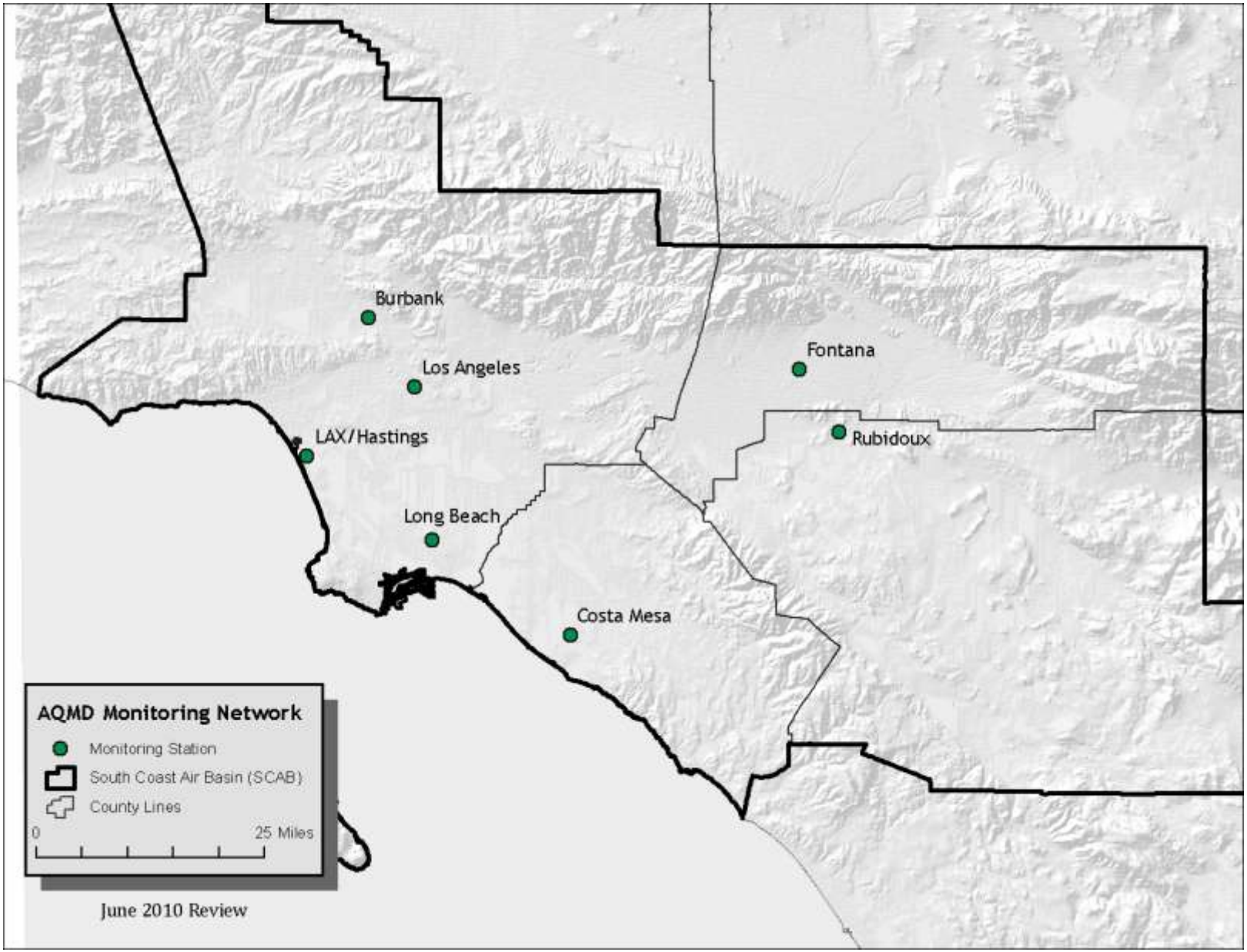


Figure 5 SCAQMD Monitoring Locations for Sulfur Dioxide

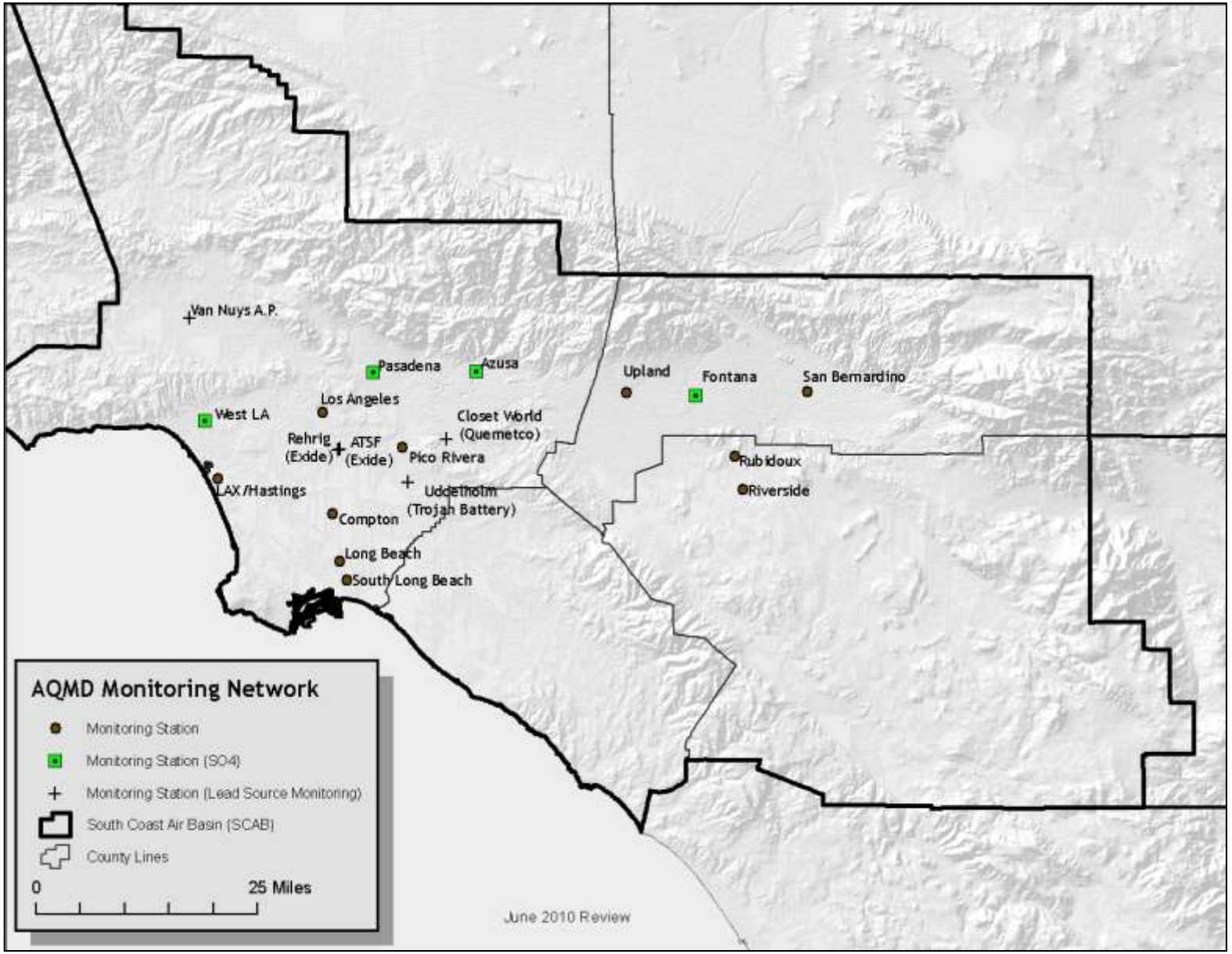


Figure 6 SCAQMD Source and Ambient Particulate Lead Monitoring Locations

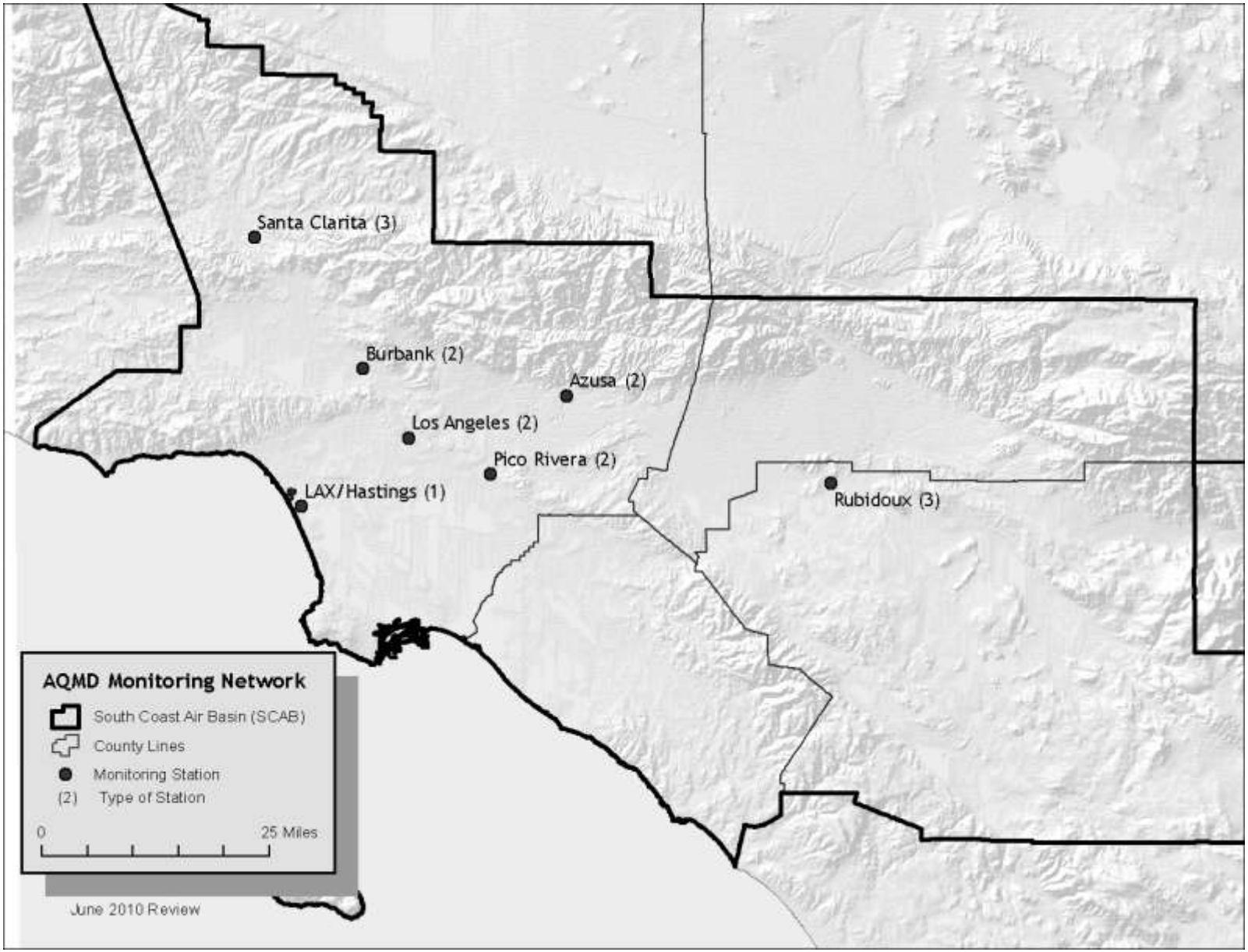
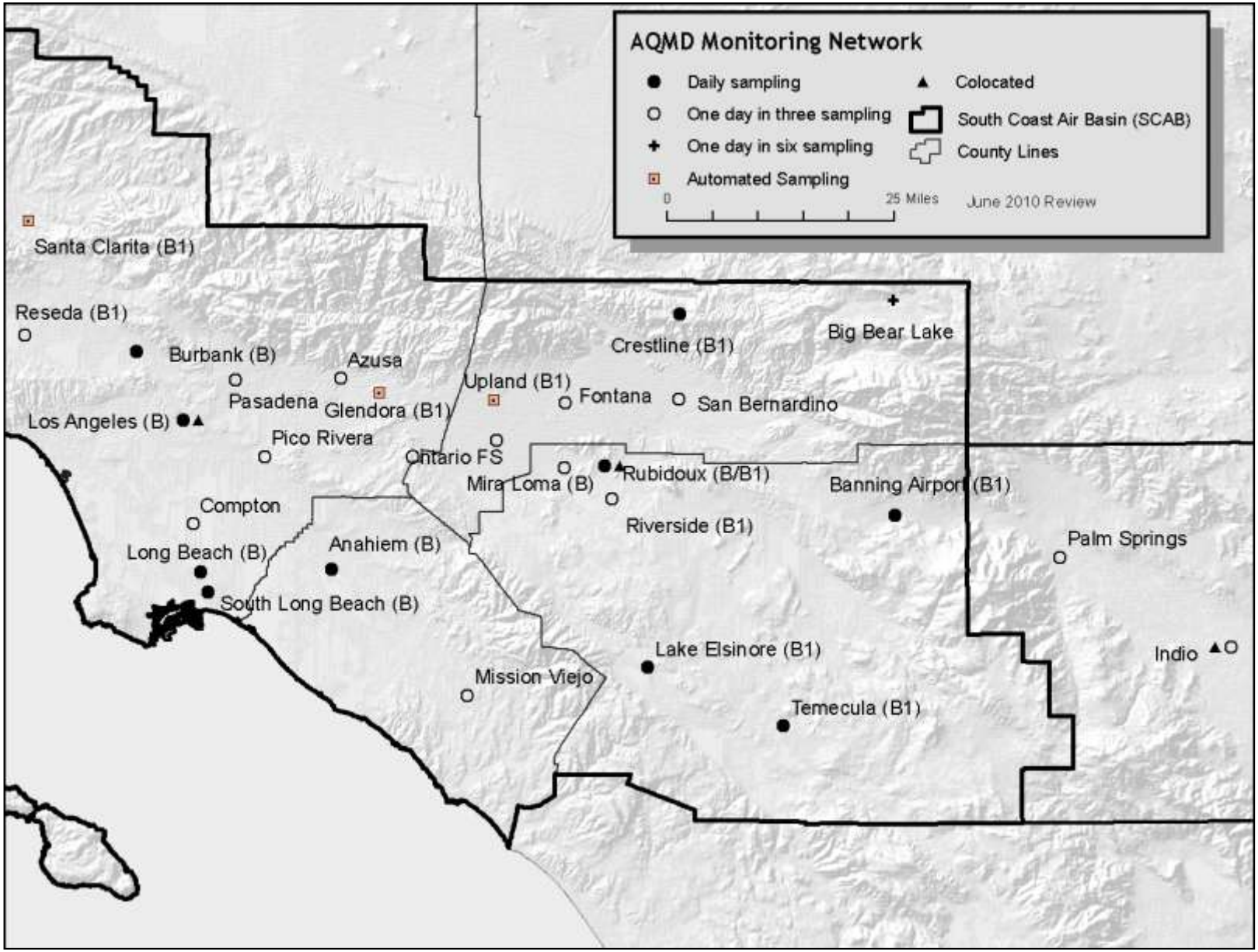


Figure 7 SCAQMD PAMS Monitoring Locations



B = BAM FEM
B1 = BAM

Figure 8 SCAQMD PM2.5 Monitoring Locations

APPENDIX B

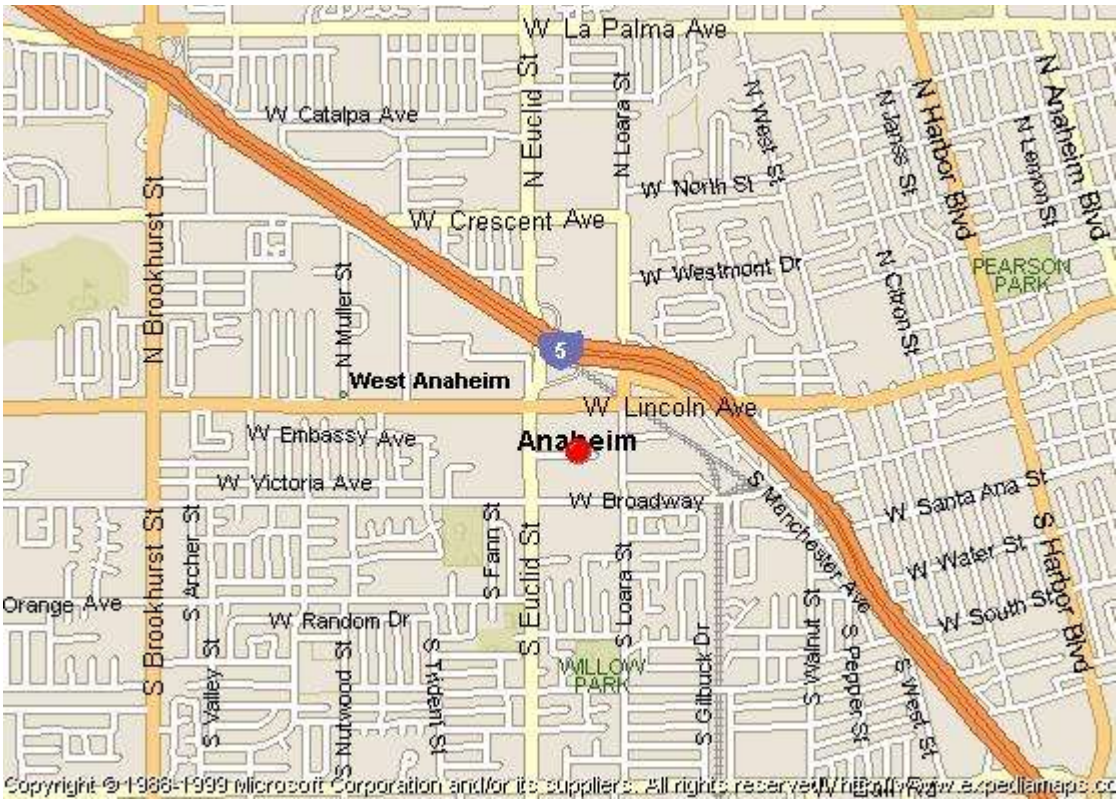
Detailed Site Information

Detailed information for air monitoring locations are included in site reports. For information on monitoring objectives, purposes and scales, please refer to the main text of this plan.

- Anaheim
- ATSF (Exide)
- Azusa
- Banning Airport
- Big Bear
- Burbank
- Closet World (Quemetco)
- Compton
- Costa Mesa
- Crestline
- Fontana
- Glendora
- Indio
- La Habra
- Lake Elsinore
- LAX Hastings
- Long Beach (North)
- Los Angeles
- Mira Loma (High School)
- Mira Loma (Van Buren)
- Mission Viejo
- Norco
- Ontario Fire Station
- Palm Springs
- Pasadena
- Perris
- Pico Rivera #2
- Pomona
- Redlands
- Rehrig (Exide)
- Reseda
- Riverside
- Rubidoux
- San Bernardino
- Santa Clarita
- South Long Beach
- Uddelholm (Trojan Battery)
- Upland
- Van Nuys Airport
- West Los Angeles

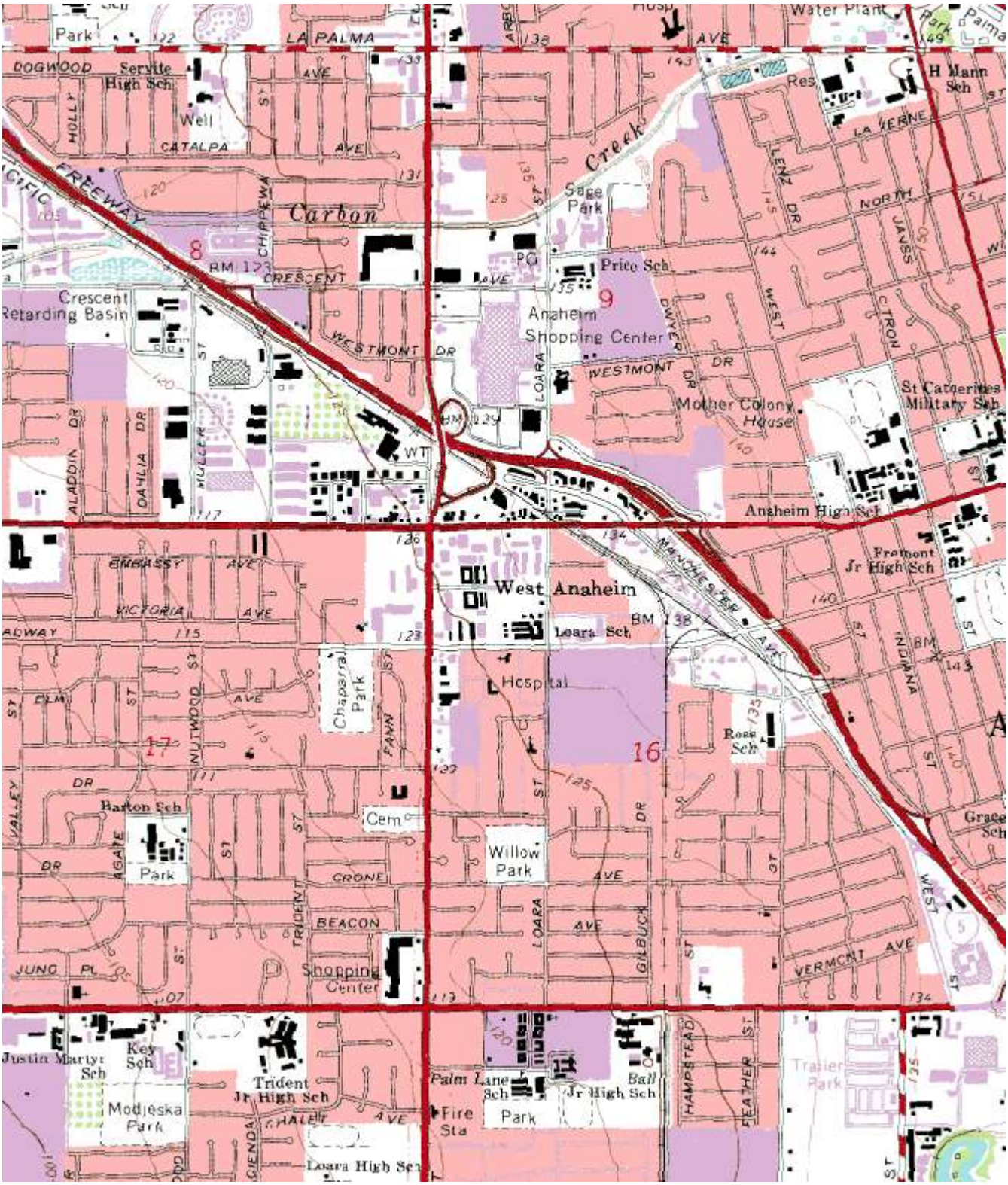
South Coast AQMD
Site Survey Report for Anaheim-Loara School

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060590007	30178	08/01	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
1630 Pampas Ln Anaheim, CA 92802	Orange	South Coast	33° 49' 50"	117° 56' 18"	39


Park
LA PALMA AVE
DOGWOOD
Servite High Sch
Well
CATALPA AVE
FREEWAY
Carbon
Creek
Sage Park
Water Plant
H Mann Sch
LA VERNE
LENZ DR
NORTH
JANSS
CITRON
WEST
Price Sch
Crescent Retarding Basin
CRESCENT AVE
WESTMONT DR
Anaheim Shopping Center
Mother Colony House
St Catherines Military Sch
Anaheim High Sch
ALADDIN DR
DAHLIA DR
EMBASSY AVE
VICTORIA AVE
West Anaheim
Loara Sch
Fremont Jr High Sch
MANCHESTER AVE
Hospital
Chaparral Park
ELM ST
NUTWOOD ST
Barton Sch
Park
Cem
Willow Park
Ross Sch
Grace Sch
CRONE
BEACON
TRIDENT
LOARA
GILBUCK
VERMONT AVE
JUNG PL
Shopping Center
Justin Marty Sch
Key Sch
Trident Jr High Sch
Modjeska Park
Palm Lane Sch
Jr High Sch
Fire Sta
Park
Loara High Sch
HAMPSTEAD
HEATHER ST
Trailer Park

Site Survey Report

Siting Information

Site Name: Anaheim-Loara School	Date: 4/22/10	State Code: 30178	AIRS Number: 060590007
Address: 1630 Pampas Ln Anaheim, CA 92802	Latitude: 33° 49' 50"	Longitude: 117° 56' 18"	Elevation (m): 39
	Senior AQIS: Albert Dietrich	Site Technician: Tom Mac	Site Phone: (714) 635-5347
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SE
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 7.5-10.5 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Grass	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Anaheim-Loara School			
AQS ID (AIRS #)	060590007			
GIS coordinates	Latitude: 33° 49’ 50” Longitude: 117° 56’ 18”			
Location	Elementary School			
Address	1630 Pampas Ln, Anaheim, CA 92802			
County	Orange			
Dist. to road	7.5 – 10.5 meters			
Traffic count	< 500 veh/day			
Groundcover	Grass			
Representative Area	3110-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10-SSI
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Urban Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	API 200E	Thermo	Andersen SA1200
Serial #	5691221	203	116249	4936
Property #	E000362	E000203	N/A	N/A
Last Calibration Date	02/02/10	11/18/09	12/16/09	12/22/09
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	08/01	08/01	08/01	08/01
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.5	4.5	4.5	2.5
Distance from supporting structure	1.9	1.9	1.9	1.5
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	2
Distance from trees	6	6	6	10
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.2	7.4	7.3	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	BAM-PM10	FEM BAM-PM2.5	SASS-PM2.5	PM2.5-RAAS
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	MetOne 1020	MetOne BAM 1020	MetOne SASS	Andersen RAAS
Serial #		H3182	C-4159	437
Property #		0016716	E000235	N/A
Last Calibration Date	03/04/2010	03/01/2010	04/09/2010	12/31/09
Analysis method	Beta Attenuation	Beta Attenuation	Gravimetric	Gravimetric
Start date	3/4/2010	08/01	08/01	08/01
Operation schedule	1:1	1:1	1:6	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.8	4.8	2.9	2.9
Distance from supporting structure	2.2	2.2	1.8	1.9
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	2	1.5
Distance from trees	6	6	10	10
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	N/A	N/A	N/A
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	No	Yes
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	Bi-Weekly	N/A	N/A

Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Anaheim-Loara School
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

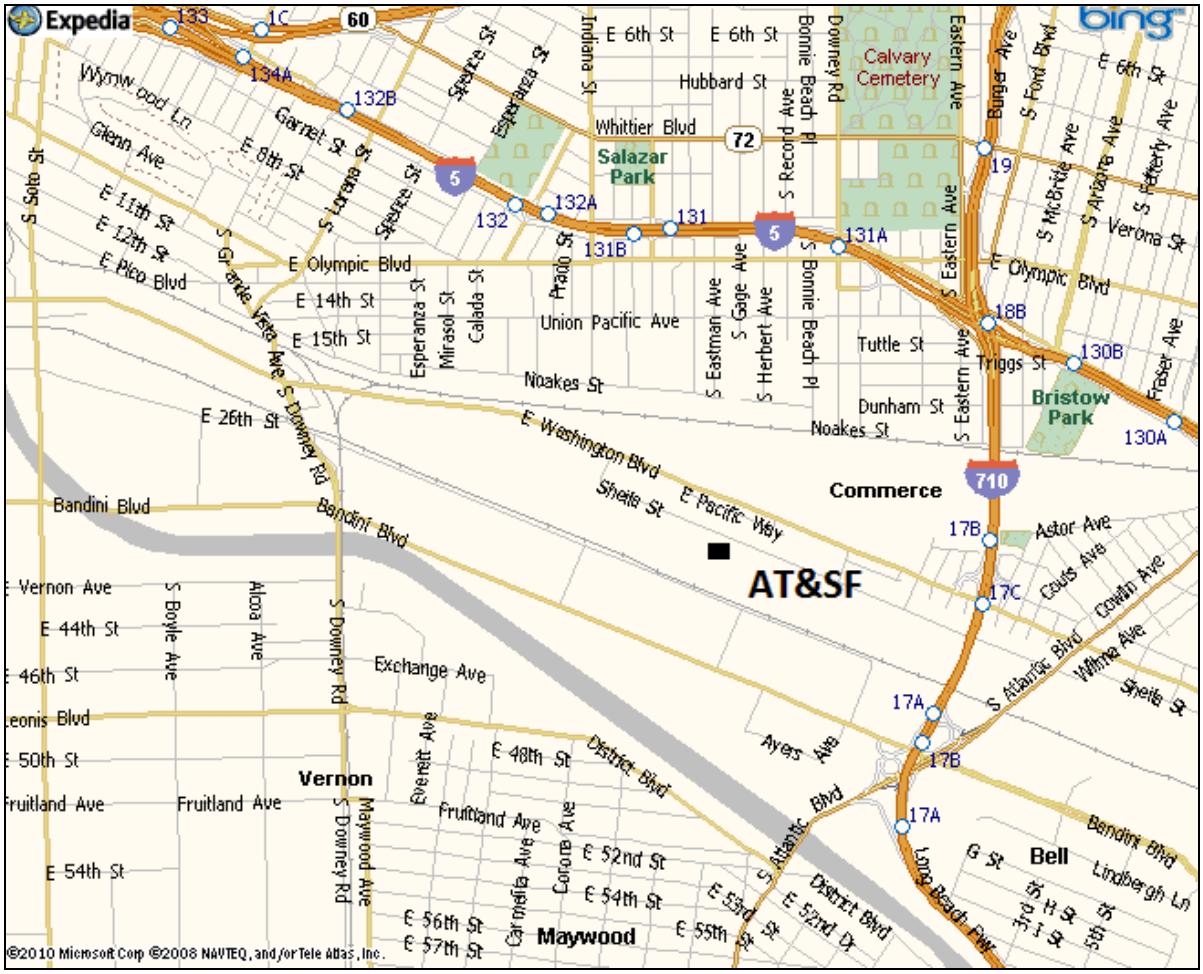
Looking West from the probe.

Anaheim-Loara School
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

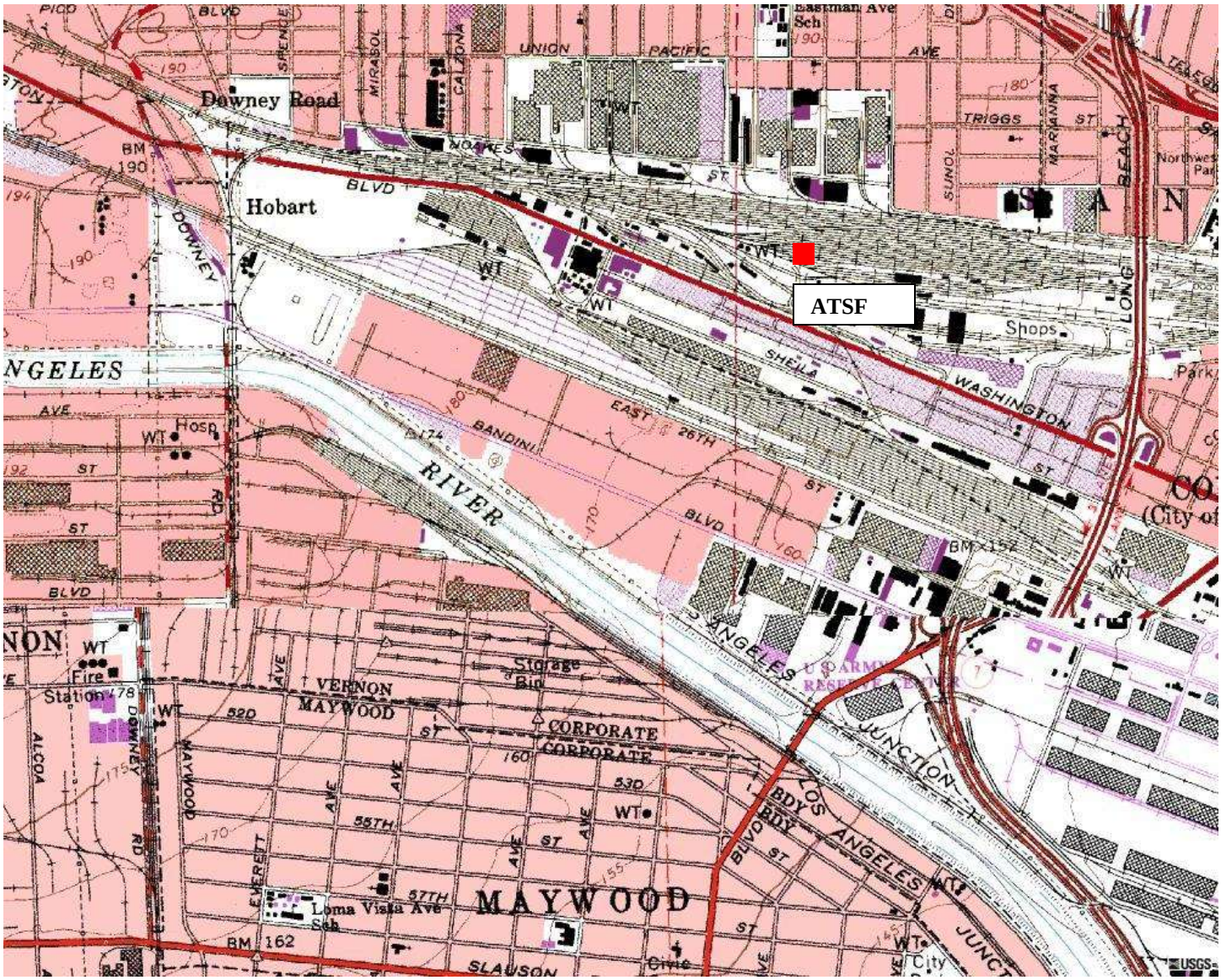
Quality Assurance
Site Survey Report for AT&SF (Exide)

Last updated April 13, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371406		1/1/99	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
Railroad Yard (Washington Blvd). City of Commerce	Los Angeles	South Coast	34° 00' 30"	-118° 11' 26"	53 m


ATSF
Downey Road
Hobart
BLVD
UNION
PACIFIC
WASHINGTON
BANDINI
EAST 26TH
RIVER
VERNON
MAYWOOD
CORPORATE
Storage Bin
Fire Station
Loma Vista Ave Sch
MAYWOOD
SLAUSON
Shops
Hosp
Civic
City
JUNCTION
BM 190
BM 162
BM 152

Site Survey Report

Siting Information

Site Name AT&SF Site.	Date: 04/13/2010	State Code: NA	AIRS Number 060371406
Address: Railroad Yard off Washington Blvd, Commerce, CA	Latitude: 34° 00' 30"'	Longitude: -118° 11′ 26"	Elevation (m): 53 m
	Senior AQIS: Mike Koch	Site Technician: J. Diez	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: No	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance 257 m	Region: Level	Probe Last Cleaned Date: N/A
	Count 38,513	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Train	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 10 m	Urbanization: Urban	Site Survey Complete: Yes
	Direction: North and South	Ground Cover: Dirt / Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	AT&SF			
AQS ID (AIRS #)	060371406			
GIS coordinates	Latitude: 34° 00′30"' Longitude: -118° 11′ 26″			
Location	Commercial			
Address	Railroad yard off Washington Blvd, Commerce, CA			
County	Los Angeles			
Dist. to road	257 m (Washington Blvd.)			
Traffic count	38,513			
Groundcover	Dirt/Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	TSP			
Monitor obj	Source Impact			
Spatial scale	Microscale			
Sampling method	GMW TSP			
Serial #	1545			
Property #	NA			
Last Calibration Date	12/16/09			
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry			
Start date	1/1/99			
Operation schedule	1/3			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			

Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Exide - ATSF
Site Photos (Cont.)

Looking at the probe to the West.

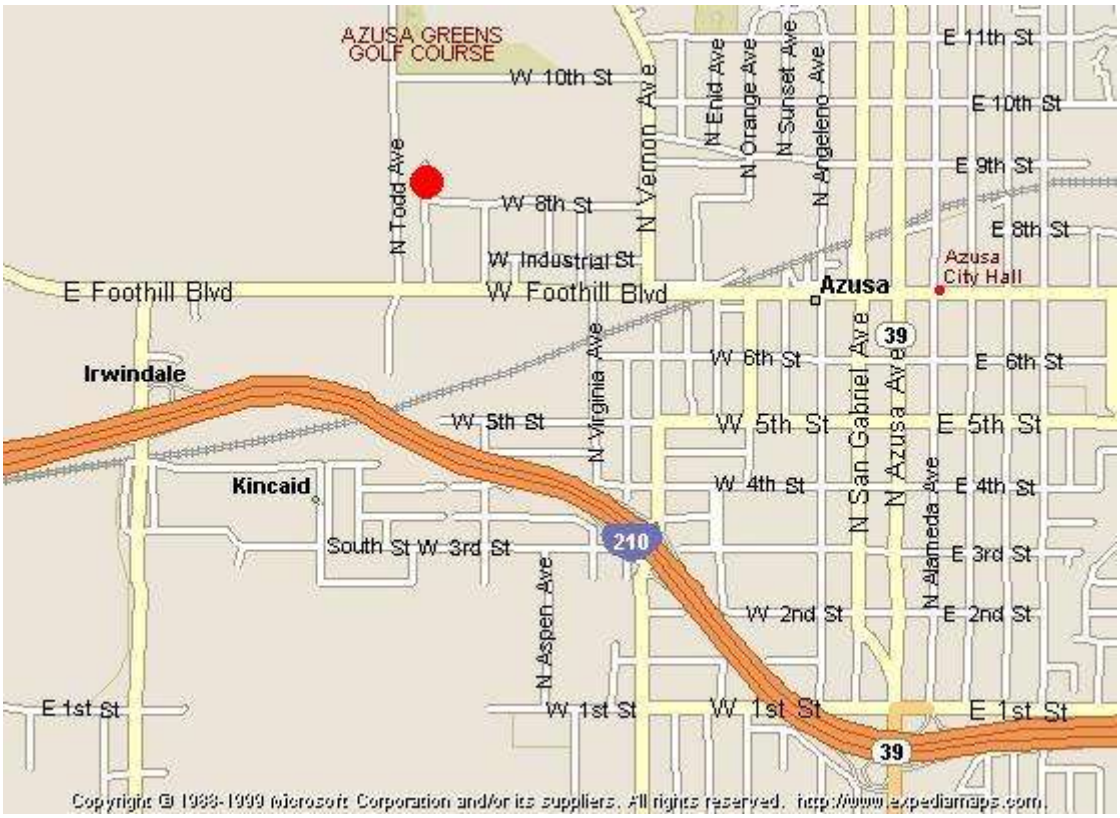
Looking from the probe to the East.

Looking from the probe to the South.

Looking from the probe to the North.

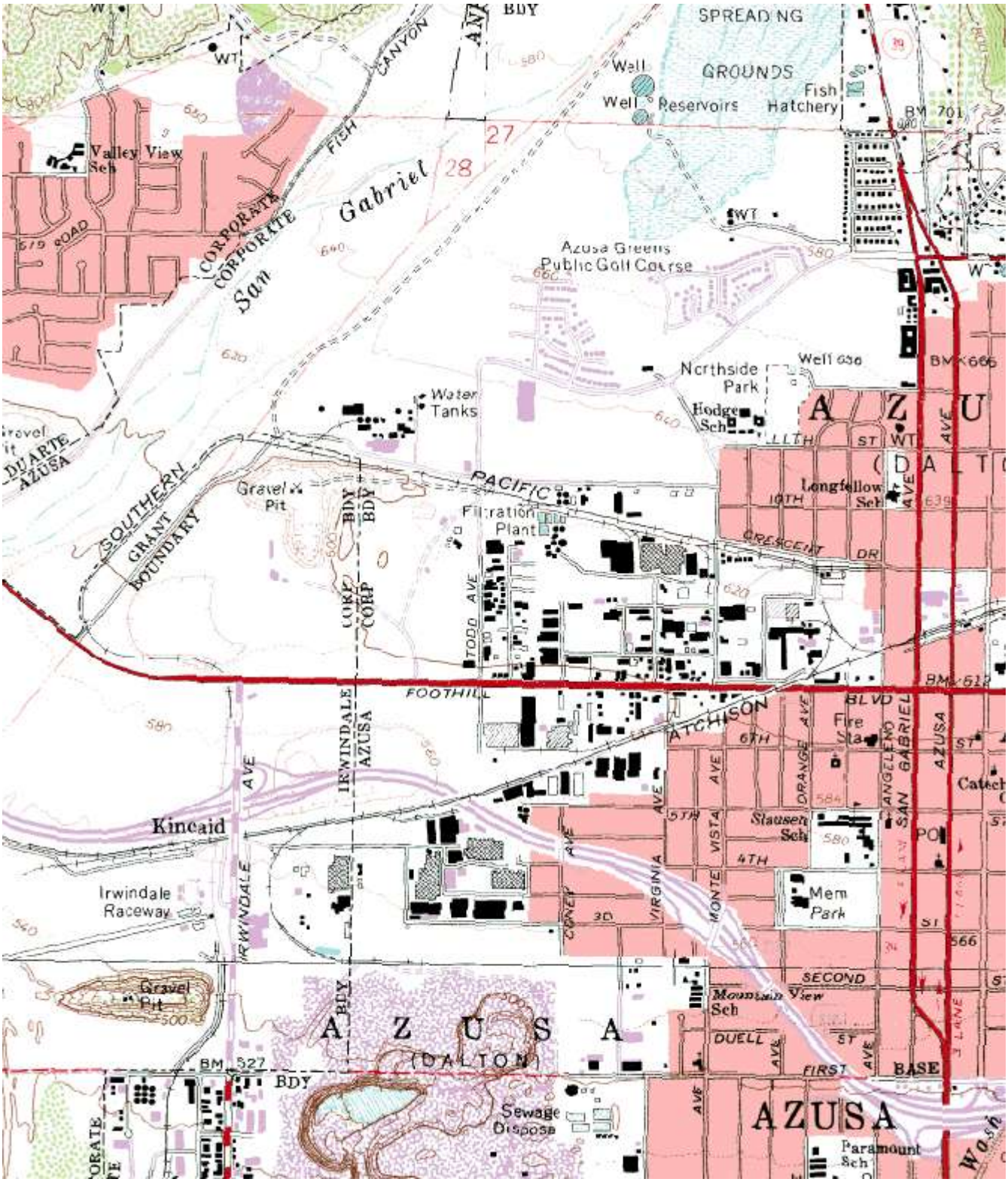
South Coast AQMD
Site Survey Report for Azusa

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060370002	70060	01/57	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
803 N. Loren Ave Azusa, CA 91702	Los Angeles	South Coast	34° 08' 11"	117° 55' 26"	187


SPREADING
GROUNDS
Well
Well
Reservoirs
Fish
Hatchery
Valley View
Sch
Gabriel
San
CORPORATE
CORPORATE
Azusa Greens
Public Golf Course
Northside
Park
Well
Water
Tanks
Hodge
Sch
Gravel
Pit
SOUTHERN
GRANT
BOUNDARY
PACIFIC
Filtration
Plant
Longfellow
Sch
CRESCENT
DR
TODD AVE
FOOTHILL
ATCHISON
BLVD
Fire
Sta
ANGELENO
SAN GABRIEL
AZUSA
Kincaid
IRWINDALE
AZUSA
Irwindale
Raceway
Gravel
Pit
Stauser
Sch
Mem
Park
Mountain View
Sch
SECOND
DUELL
FIRST
BASE
AZUSA
(DALTON)
Sewage
Disposal
Paramount
Sch
BM 527
BDY

Site Survey Report

Siting Information

Site Name: Azusa	Date: 4/21/10	State Code: 70060	AIRS Number: 060370002
Address: 803 N. Loren Ave Azusa, CA 91702	Latitude: 34° 08' 11"	Longitude: 117° 55' 26"	Elevation (m): 187
	Senior AQIS:Albert Dietrich	Site Technician: Norm Broellos	Site Phone: (626) 969-5630
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: West
Controlled: Yes	Description: Urban	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 14.5 – 18.5 m	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Welding Shop	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: 26	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: SW	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Azusa			
AQS ID (AIRS #)	060370002			
GIS coordinates	Latitude: 34° 08’ 11” Longitude: 117° 55’ 26”			
Location	Industrial Park			
Address	803 N Loren Ave, Azusa, CA 91702			
County	Los Angeles			
Dist. to road	14.5 – 18.5 m			
Traffic count	< 500 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10-SSI
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Urban Scale	Urban Scale	Neighborhood Scale
Sampling method	Horiba APMA 370	Thermo 42i	API/Teledyne 400	Sierra Andersen 1200
Serial #	N/A	267	534-S	N/A
Property #	E000345	E0016723	N/A	4933
Last Calibration Date	10/29/09	11/04/09	3/24/10	4/1/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	01/57	01/57	01/57	01/04/99
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.5	5.5	5.5	5.1
Distance from supporting structure	1.9	1.9	1.9	1.5
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	SS
Residence time	13.8	14.2	15.4	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly

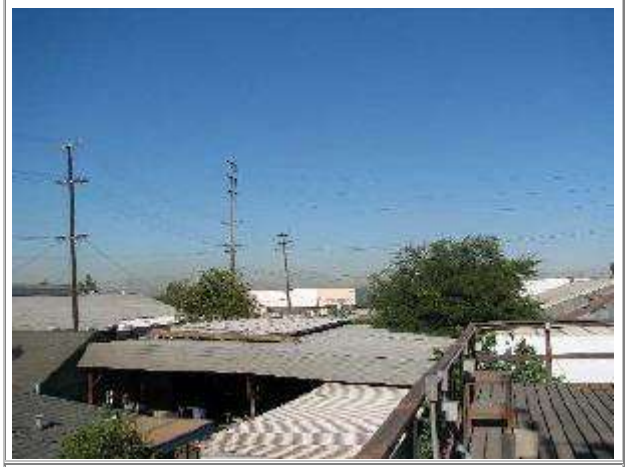
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	PM2.5 RAAS	Metals Cr-6, Carbonyl (ARB Toxics)	VOC-PAMS 8x3	VOC-PAMS 24 hour
Monitor obj	Population Exposure	Population Exposure	HIGHEST CONCENTRATION	HIGHEST CONCENTRATION
Spatial scale	Neighborhood Scale	Neighborhood Scale	Urban Scale	Urban Scale
Sampling method	Andersen RAAS PM2.5	Xontech 924	Xontech 910	Xontech 910
Serial #	00317	9241011	5472	N/A
Property #	E000017	200021471	306	0006003
Last Calibration Date	02/04/10	08/11/09	07/07/09	10/29/09
Analysis method	Gravimetric	ARB Lab	TO-14 PAMS	TO-14 PAMS
Start date	01/04/99	01/04/99	01/04/99	01/04/99
Operation schedule	Daily	1:12	1:6 / 1:3	1:6 / 1:3
Sampling season	All Year	All Year	Seasonal	All Year
Probe height	5.5	5.6	5.5	5.5
Distance from supporting structure	1.9	2.0	1.9	1.9
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	26	26	26	26
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	SS	N/A	SS	SS
Residence time	N/A	N/A	< 20	<20
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	No	No	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A

Frequency of one-point QC check (gaseous)	N/A	N/A	Semi-Annually	Semi-Annually

Pollutant	VOC (ARB Toxics)			
Monitor obj	Population Exposure			
Spatial scale	Neighborhood Scale			
Sampling method	Xontech 910			
Serial #	ARB 20004511 / 07582			
Property #	N/A			
Last Calibration Date	05/07/07			
Analysis method	ARB Lab			
Start date	01/04/99			
Operation schedule	1:12			
Sampling season	All Year			
Probe height	5.5			
Distance from supporting structure	1.55			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	NA			
Distance from trees	23			
Distance from minor sources	26			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	Teflon			
Residence time	> 20 sec			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			
Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	Semi-Annually			

Azusa
Site Photos



Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Azusa
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

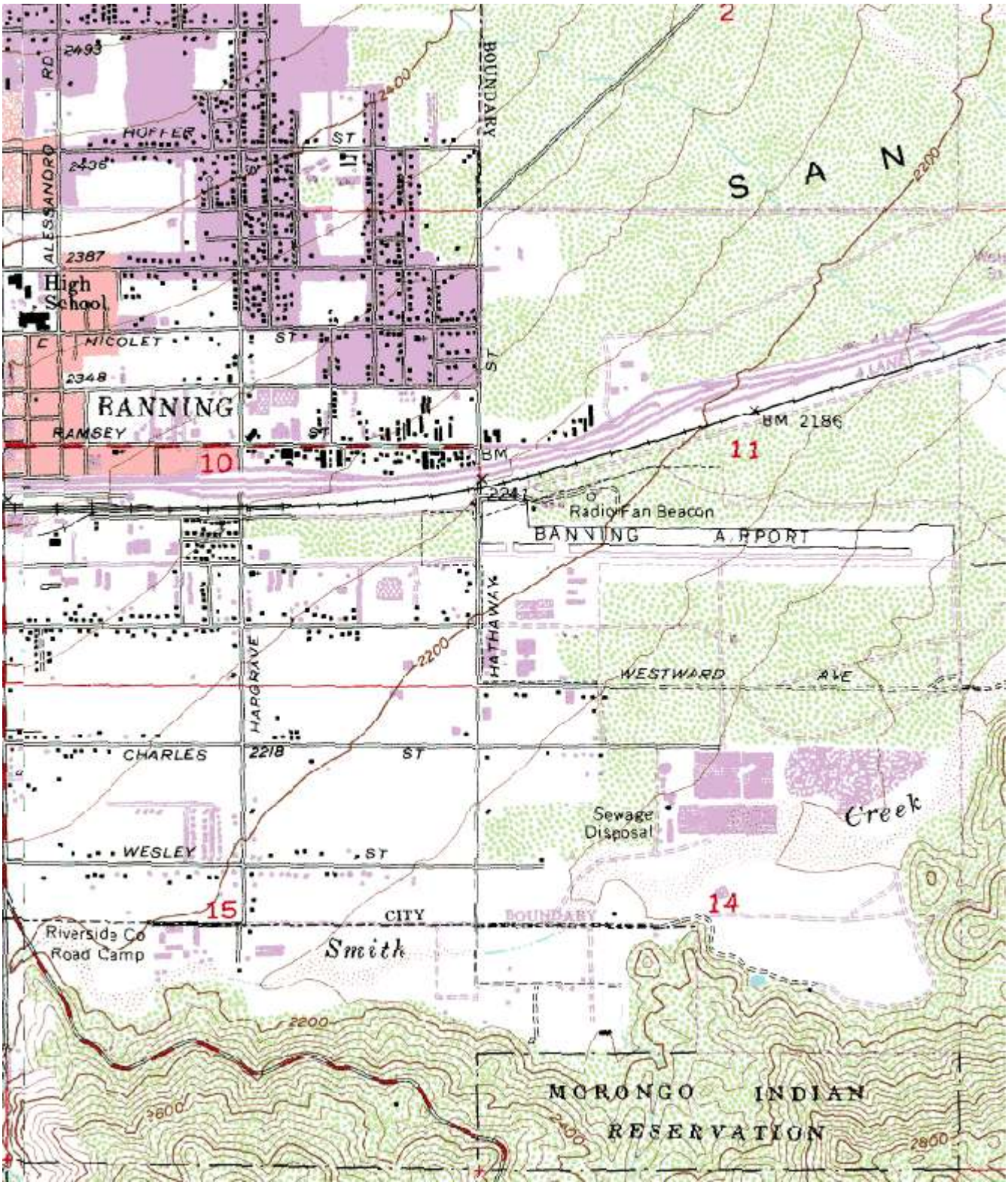
Looking at the probe from the West.

South Coast AQMD
Site Survey Report for Banning-Airport

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650012	33164	04/97	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
200 S. Hathaway St Banning, CA 92220	Riverside	South Coast	33° 55' 14"	116° 51' 30"	671


2
2493
RD
ALESSANDRO
HUFFER
ST
2436
BOUNDARY
2200
S A N
2387
High School
NICOLET
ST
2348
RANNING
RAMSEY
ST
10
BM
2241
BM 2186
11
Radio Fan Beacon
BANNING AIRPORT
HATHAWAY
HARGRAVE
2200
WESTWARD AVE
CHARLES
2218
ST
Sewage Disposal
Creek
WESLEY
ST
15
CITY
BOUNDARY
14
Riverside Co Road Camp
Smith
2200
2600
2400
2800
MORONGO INDIAN RESERVATION

Site Survey Report

Siting Information

Site Name: Banning-Airport	Date: 4/21/10	State Code: 33164	AIRS Number: 060650012
Address: 200 S. Hathaway St Banning, CA 92220	Latitude: 33° 55' 14"	Longitude: 116° 51' 30"	Elevation (m): 671
	Senior AQIS: Keith Brown	Site Technician: Jeff Baerenwald	Site Phone: (951)849-8208
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: Yes	Description: Freeway	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 80 m	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Aircraft	Agency: SCAQMD	Autocalibrator Type: Environics 9100
	Distance: 60 meters	Urbanization: Rural	Site Survey Complete: Yes
	Direction: N/NE	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Banning-Airport			
AQS ID (AIRS #)	060650012			
GIS coordinates	Latitude: 33° 55’ 14” Longitude: 116° 51’ 30”			
Location	Airport			
Address	200 S Hathaway St, Banning, CA 92220			
County	Riverside			
Dist. to road	80 meters			
Traffic count	< 2000 veh/day			
Groundcover	Gravel			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Nitrogen Dioxide	Ozone	PM10-SSI	PM2.5 BAM (Non FEM)
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Thermo 41i	API/Teledyne 400	Sierra Andersen 1200	MetOne BAM
Serial #	CM08360051	510	3546	Y15495
Property #	0016765	N/A	N/A	E000070
Last Calibration Date	3/18/10	4/1/10	12/04/09	3/16/10
Analysis method	Chemiluminescence	UV Photometric	Gravimetric	Beta attenuation
Start date	04/01/97	04/01/97	04/01/97	02/10/06
Operation schedule	1:1	1:1	1:6	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.05	4.05	2.5	4.75
Distance from supporting structure	1.5	1.5	1.5	1.7
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	N/A	N/A
Residence time	8.2	9.1	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	No

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Bi-Weekly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	N/A	N/A

Banning-Airport
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Banning-Airport
Site Photos (Cont.)

Looking at the probe from the North.

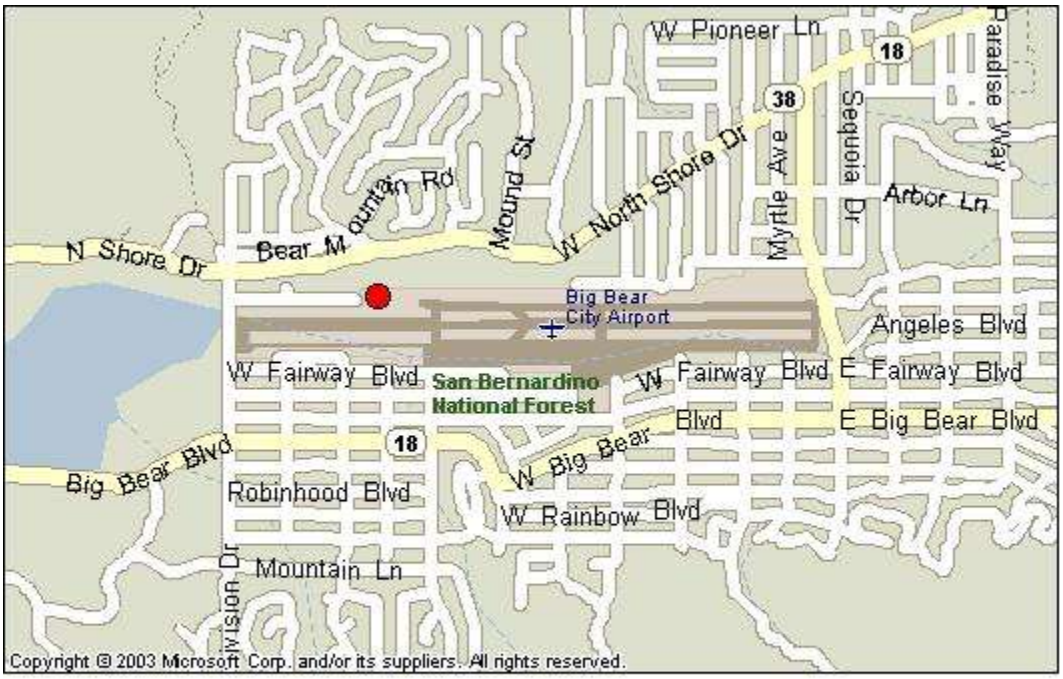
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

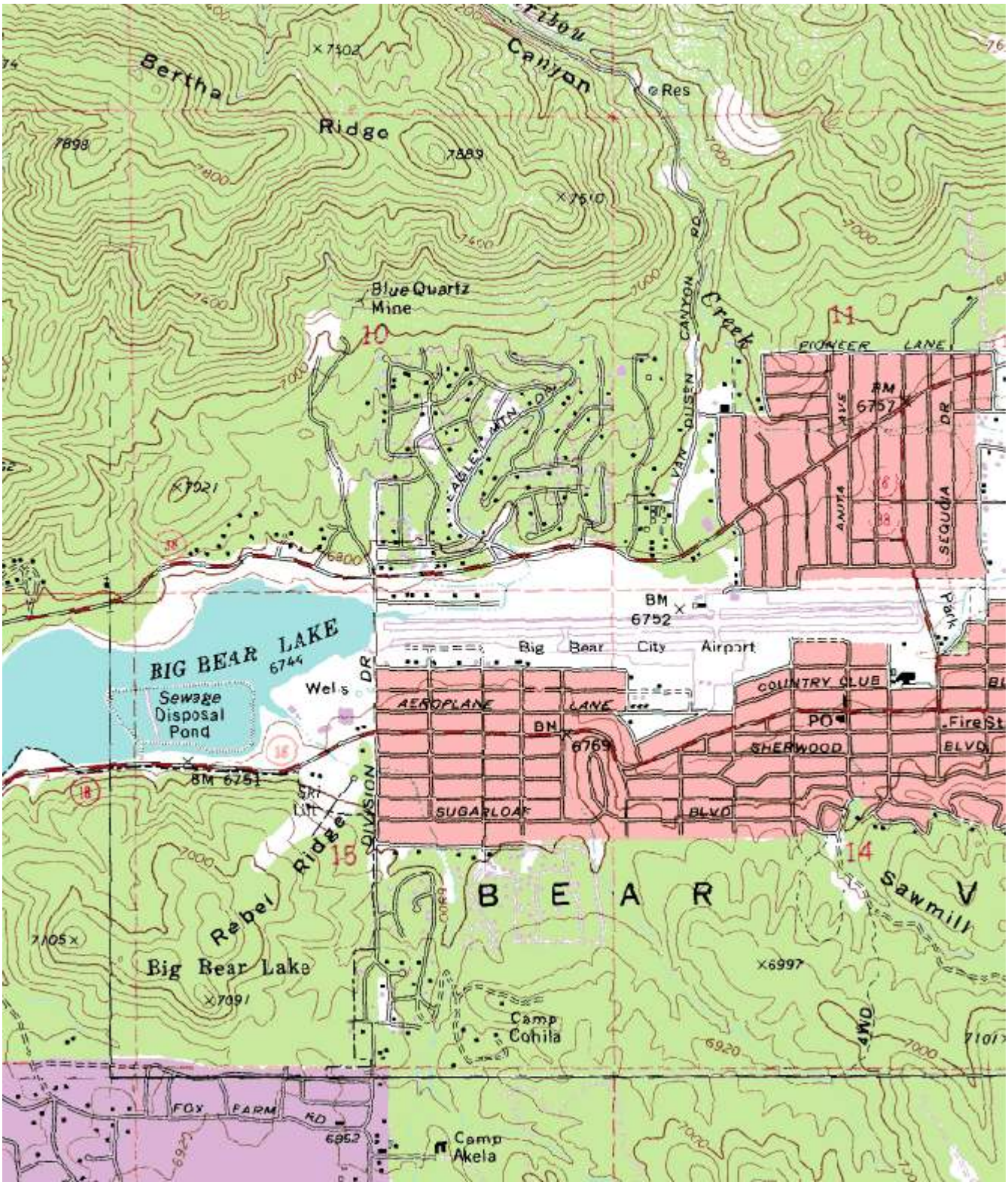
South Coast AQMD
Site Survey Report for Big Bear

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060718001	36001	02/99	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
501 W. Valley Blvd Big Bear City, CA 92314	San Bernardino	South Coast	34° 15' 52"	116° 51' 41"	2059


Bertha Ridge
Canyon
Res
Blue Quartz Mine
Creek
PIONEER LANE
BM 6757
BM 6752
Big Bear City Airport
COUNTRY CLUB
PO
Fire St
BIG BEAR LAKE
6744
Sewage Disposal Pond
Wells
AEROPLANE LANE
BM 6769
SHERWOOD BLVD
BM 6751
SUGARLOAF BLVD
Rebel Ridge
DIVISION
B E A R
Sawmill
Big Bear Lake
Camp Cohila
FOX FARM RD
Camp Akela
4WD

Site Survey Report

Siting Information

Site Name: Big Bear	Date: 4/21/10	State Code: 36001	AIRS Number: 060718001
Address: 501 Valley Blvd Big Bear City, CA 92314	Latitude: 34° 15' 52"	Longitude: 116° 51' 41"	Elevation (m): 2059
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: No	Description: Hwy	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 114 m	Region: Mountainous	Probe Last Cleaned: N/A
	Count (Veh/Day): 2876	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Airport	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 50 meters	Urbanization: Forest/Residential	Site Survey Complete: Yes
	Direction: SE	Ground Cover: Grassland	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Big Bear			
AQS ID (AIRS #)	060718001			
GIS coordinates	Latitude: 34° 15’ 52” Longitude: 116° 51’ 41”			
Location	Big Bear Airport			
Address	501 W. Valley Blvd, Big Bear, CA 92314			
County	San Bernardino			
Dist. to road	114 meters			
Traffic count	2876 veh/day			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	PM2.5			
Monitor obj	Population oriented			
Spatial scale	Neighborhood Scale			
Sampling method	Andersen 300			
Serial #	00099			
Property #	ARB 20005018			
Last Calibration Date	10/01/09			
Analysis method	Gravimetric			
Start date	02/08/99			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.9			
Distance from supporting structure	1.9			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	36			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	Yes			

Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Big Bear
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Big Bear
Site Photos (Cont.)

Looking at the probe from the North.

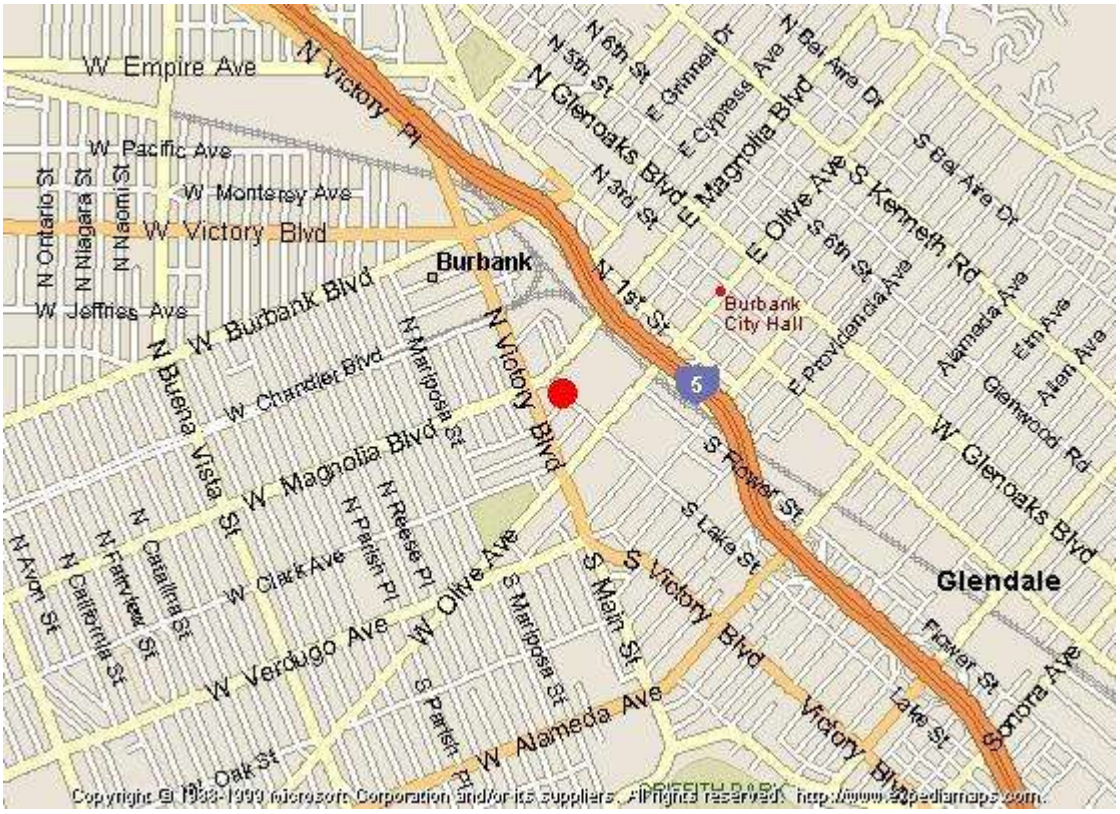
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

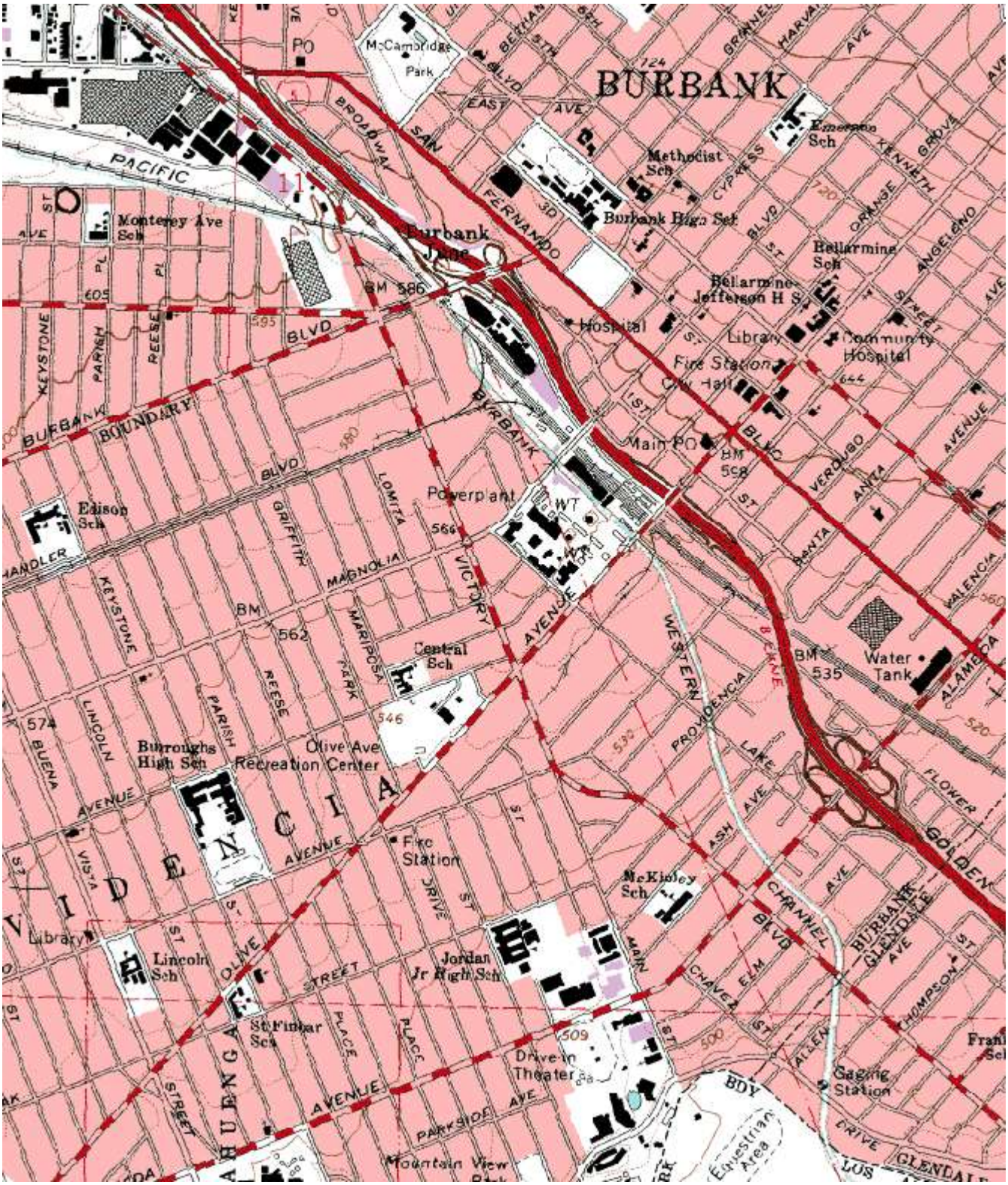
Quality Assurance
Site Survey Report for Burbank

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371002	70069	10/61	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
228 W Palm Ave Burbank, CA 91502	Los Angeles	South Coast	34° 10' 33"	118° 19' 01"	171


BURBANK
PACIFIC
Monterey Ave Sch
McCambridge Park
Burbank Jct
Burbank High Sch
Methodist Sch
Bellarmine Sch
Bellarmine-Jefferson H S
Hospital
Library
Fire Station
City Hall
Community Hospital
Main PO
Powerplant
WT
Edison Sch
Central Sch
Burroughs High Sch
Olive Ave Recreation Center
Fire Station
Library
Lincoln Sch
Jordan Jr High Sch
McKinley Sch
Water Tank
Drive-in Theater
Gaging Station
Mountain View
BM 586
BM 562
BM 535
BM 568
BOUNDARY BLVD
GRIFFITH
MAGNOLIA
VICTORY AVENUE
WESTERN
KEYSTONE
REESE
PARISH
LINCOLN
BUENA VISTA
OLIVE STREET
CHANNEL BLVD
ALAMEDA
VALENCIA
FLOWER
GOLDEN

Site Survey Report

Siting Information

Site Name: Burbank	Date: 4/21/10	State Code: 70069	AIRS Number: 060371002
Address: 228 W Palm Ave Burbank, CA 91502	Latitude: 34° 10' 33"	Longitude: 118° 19' 01"	Elevation (m): 171
	Senior AQIS: Albert Dietrich	Site Technician: Norm Broellos	Site Phone: (818) 843-8175
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: S
Controlled: Yes	Description: commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 13.8	Region: Valley	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: None	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: None	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Burbank			
AQS ID (AIRS #)	060371002			
GIS coordinates	Latitude: 34° 10’ 33” Longitude: 118° 19’ 01”			
Location	Business Store Front			
Address	228 W Palm Ave, Burbank, CA 91502			
County	Los Angeles			
Dist. to road	13.8 meters			
Traffic count	< 2000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Highest Concentration	Population Oriented	Highest Concentration	Highest Concentration
Spatial scale	Neighborhood Scale	Neighborhood Scale	Urban Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	Thermo 43i	API/Teledyne 400	Thermo 43i
Serial #	577274016	CM08360049	536-S	0837832127
Property #	16212	16737		16749
Last Calibration Date	02/02/10	12/23/09	02/02/10	01/29/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	10/61	10/61	10/61	10/61
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	6.2	6.2	6.2	6.2
Distance from supporting structure	2.7	2.7	2.7	2.7
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	18	18	18	18
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	6.3	7.8	6.5	7.9
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	PM10-SSI	TEOM	FEM BAM-PM2.5	
Monitor obj	POPULATION ORIENTED	POPULATION ORIENTED	POPULATION ORIENTED	
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	
Sampling method	Andersen 1200	R&P 1400a	MetOne BAM1020	
Serial #	4932	140AB263210687	143183	
Property #	N/A	339	16717	
Last Calibration Date	3/18/10	3/18/10	3/22/10	
Analysis method	Gravimetric	TEOM	Beta attenuation	
Start date	10/61	01/21/99	01/21/99	
Operation schedule	1:6	1:1	1:1	
Sampling season	All Year	All Year	All Year	
Probe height	5.1	5.2	5.5	
Distance from supporting structure	1.6	1.7	2.0	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	19	19	20	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	2	N/A	2.0	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	N/A	N/A	
Residence time	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	
Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers audit	N/A	Monthly	Bi-Weekly	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	

Pollutant	PM2.5-RAAS	VOC - GC		
Monitor obj	POPULATION ORIENTED	HIGHEST CONCENTRATION		
Spatial scale	Neighborhood Scale	Urban Scale		
Sampling method	Andersen RAAS2.5-3.0	Aligent Tech GC 6890N		
Serial #	340			
Property #	E000022	E000257		
Last Calibration Date	05/06/05			
Analysis method	Gravimetric	GC		
Start date	01/21/99	01/21/99		
Operation schedule	1:3	1:1		
Sampling season	All Year	All Year		
Probe height	5.4	5.5		
Distance from supporting structure	2.0	2.0		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	20	16		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	N/A	SS		
Residence time	N/A	N/A		
Will there be changes within the next 18 months?	No	No		
Is it suitable for comparison against the annual PM2.5?	N/A	N/A		
Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A		
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A		

Pollutant	VOC-PAMS	Carbonyl-PAMS	Carbonyl-PAMS	Metals, Cr6, Carbonyls (ARB Toxics 924)
Monitor obj	Highest Concentration	Highest Concentration	Highest Concentration	Highest concentration
Spatial scale	Urban Scale	Urban Scale	Urban Scale	Urban
Sampling method	Xontech 910	Atec 2440/2448	Atec 8000	Xontech 924
Serial #		97007 / 23170	25272	6053
Property #	15769	16698	320	20060125 (ARB)
Last Calibration Date	4/1/10	4/1/10	4/1/10	
Analysis method	TO-14 PAMS	TO-14 PAMS	TO-14 PAMS	ARB Lab
Start date	01/21/99	01/21/99	01/21/99	01/21/99
Operation schedule	1:6 or Intensive PAMS	1:6 or Intensive PAMS	1:6 or Intensive PAMS	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.5	5.5	5.5	5.5
Distance from supporting structure	2.0	2.0	2.0	2.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	16	16	16	16
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	0.5
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	SS	SS	SS	N/A
Residence time	< 20	< 20	< 20	< 20
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Burbank
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

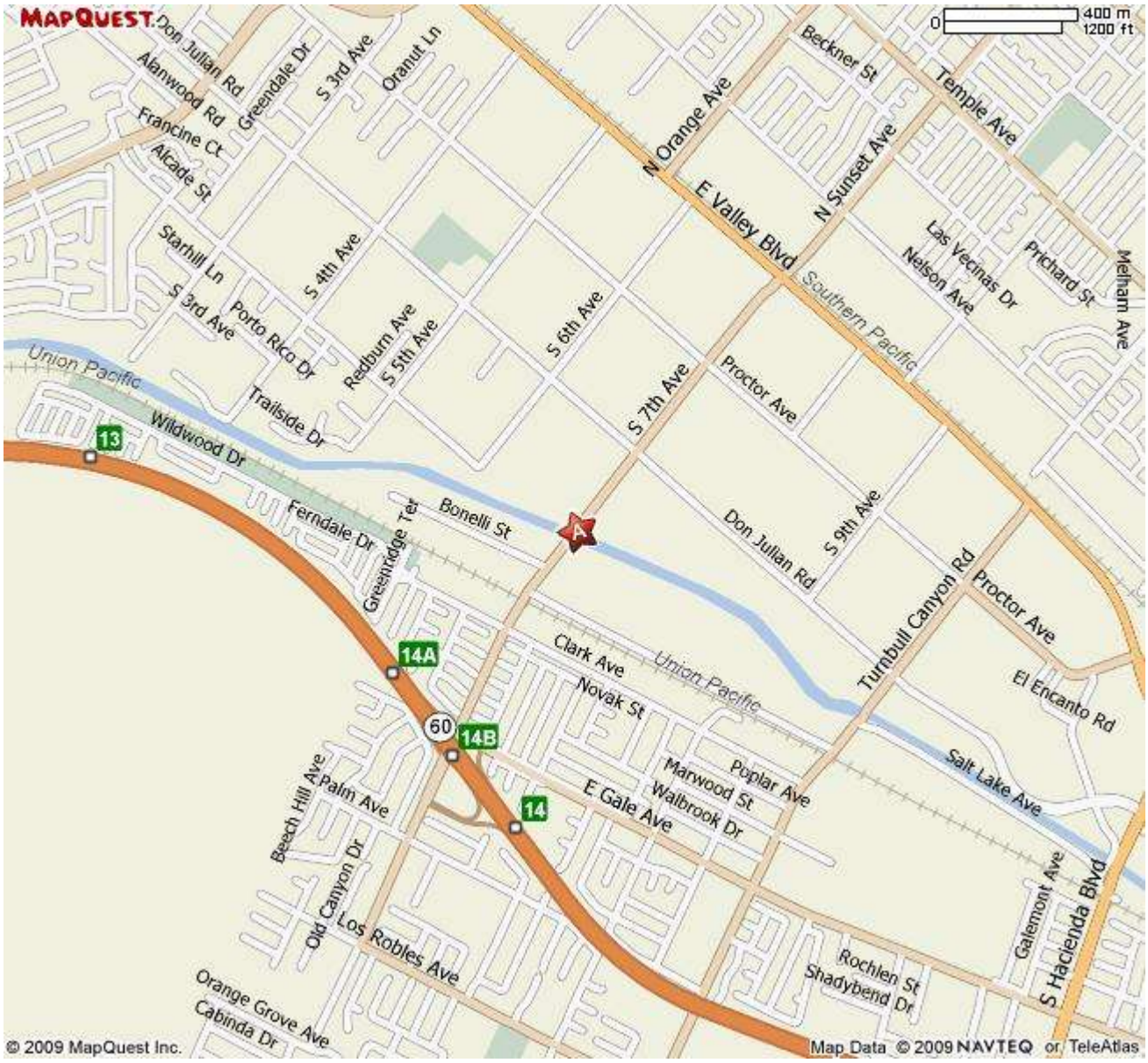
Looking West from the probe.

Burbank
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

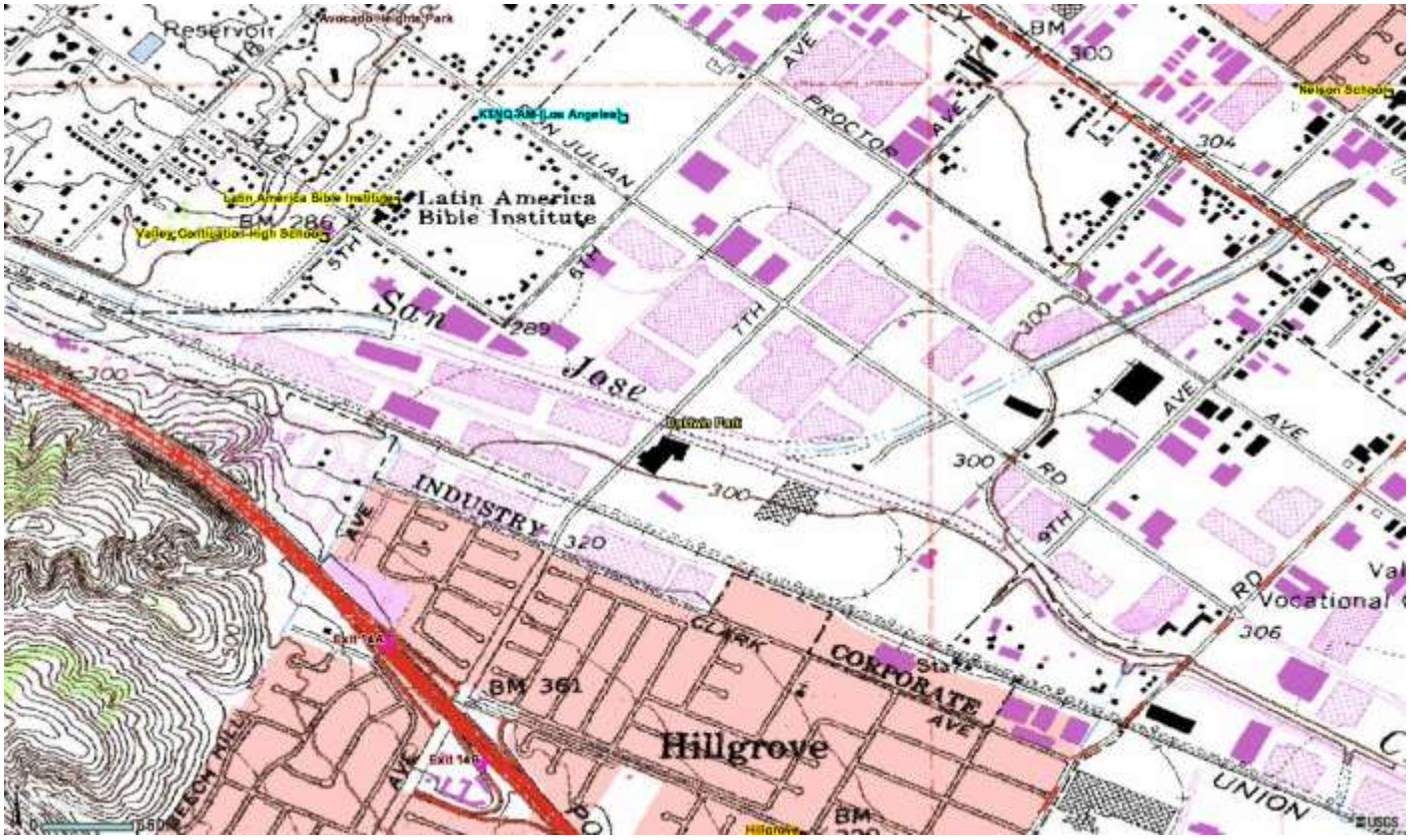
Quality Assurance
Site Survey Report for Closet World (Quemetco)

Last updated April 13, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371404	NA	10/03/2008	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
500 S. 7th Ave. City of Industry, CA 91746	Los Angeles	South Coast	34° 01' 34"	-117° 58' 54"	89 m


Reservoir
Latin America Bible Institute
BM 286
San
Jose
INDUSTRY
320
BM 361
Hillgrove
CLARK
CORPORATE
AVE
PROCTOR
N JULIAN
5TH
6TH
7TH
9TH
RD
300
304
306
UNION
Vocational

Site Survey Report

Siting Information

Site Name: Closet World (Quemetco)	Date: 04/13/2010	State Code: NA	AIRS Number: 060371404
Address: 500 S. 7th Ave. City of Industry, CA 91746	Latitude: 34° 01' 34"	Longitude: -117° 58' 54"	Elevation (m): 89
	Senior AQIS: Albert Dietrich	Site Technician: Robert Wimmer	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: No	Description: Suburban	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance: 30 m	Region: Level	Probe Last Cleaned Date: N/A
	Count (Veh/Day): 20,000	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Lead Smelter	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 114 m	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: South	Ground Cover: Asphalt / Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Closet World (Quemetco)			
AQS ID (AIRS #)	060371404			
GIS coordinates	Latitude: 34° 01' 34" Longitude: -117° 58' 54"			
Location	Parking lot			
Address	720 S 7th Ave. City of Industry, CA 91746			
County	Los Angeles			
Dist. to road	30			
Traffic count	20,000			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	TSP			
Monitor obj	Source Impact			
Spatial scale	Microscale			
Sampling method	GMW TSP			
Serial #	1577			
Property #	N/A			
Last Calibration Date	01/27/2010			
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry			
Start date	10/3/2008			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			

Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Quemetco – Closet World
Site Photos

Looking North from the probe

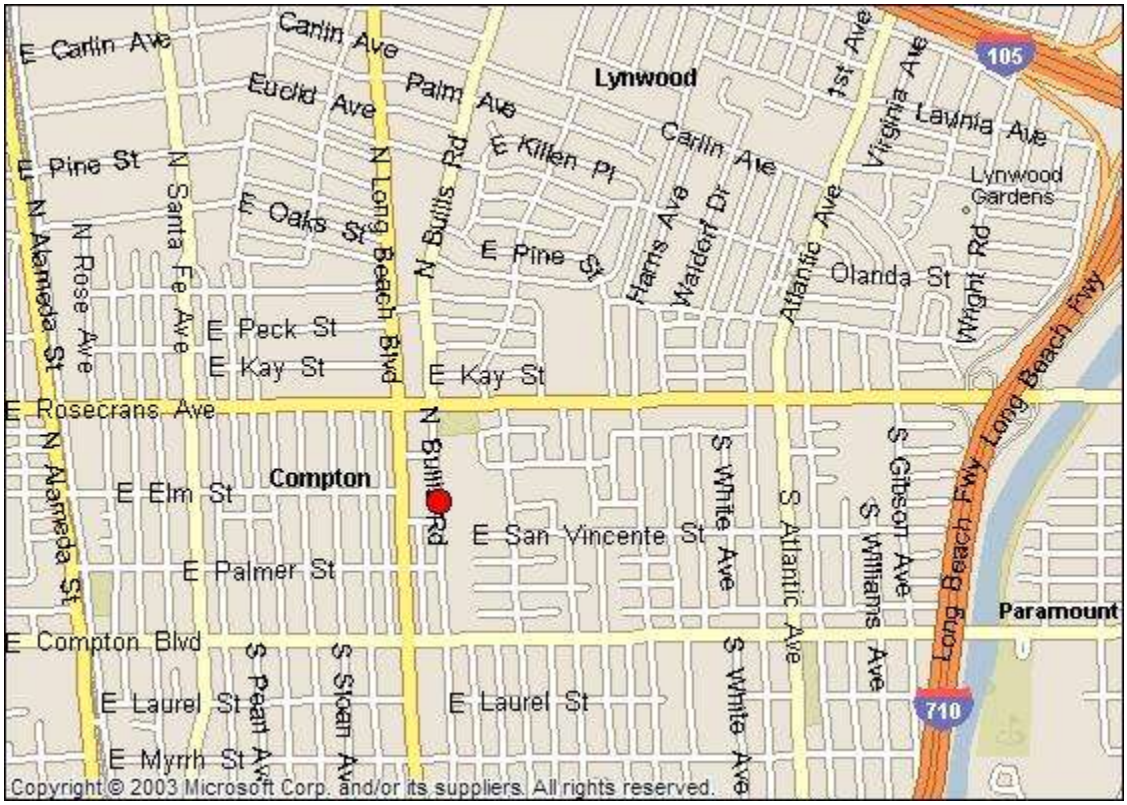
Looking East from the probe.

Looking South toward the probe.

Looking West from the probe

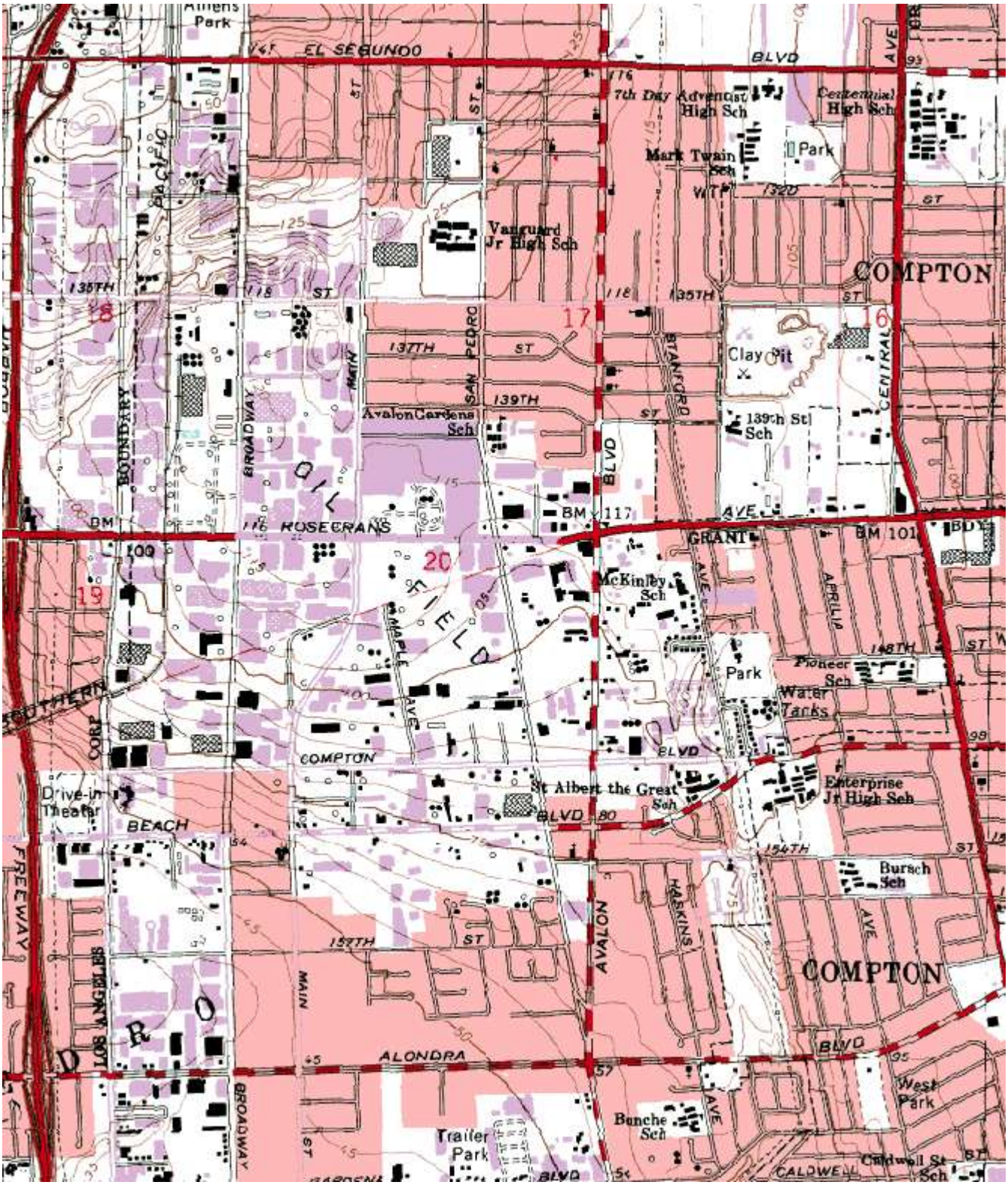
South Coast AQMD
Site Survey Report for Compton

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371302	70112	01/04	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
700 North Bullis Rd Compton, CA 90221	Los Angeles	South Coast	33° 54' 05"	118° 12' 18"	22


EL SEGUNDO BLVD
7th Day Adventist High Sch
Centennial High Sch
Mark Twain Sch
Park
Vanguard Jr High Sch
COMPTON
135TH ST
137TH ST
139TH ST
SAN PEDRO
STANFORD
CENTRAL
Clay Pit
139th St Sch
Avalon Gardens Sch
BROADWAY
MAIN
BOUNDARY
BLVD
AVE
ROSECRANS
GRANT
McKinley Sch
APRILLIA
148TH ST
Pioneer Sch
Water Tanks
Park
MAPLE AVE
COMPTON BLVD
St Albert the Great Sch
Enterprise Jr High Sch
Drive-in Theater
BEACH BLVD
154TH ST
Bursch Sch
HARKINS
AVALON BLVD
157TH ST
ALONDRA BLVD
West Park
Trailer Park
Bunche Sch
CALDWELL
Caldwell St Sch
SOUTHERN PACIFIC CORP
LOS ANGELES FREEWAY
OIL FIELD
18
17
16
19
20

Site Survey Report

Siting Information

Site Name: Compton	Date: 4/21/10	State Code: 70112	AIRS Number: 060371302
Address: 700 North Bullis Rd Compton, CA 90221	Latitude: 33° 54' 05"	Longitude: 118° 12' 18"	Elevation (m): 22
	Senior AQIS: Albert Dietrich	Site Technician: Paul Mayo	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 13 - 17 m	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 1000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environic
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Compton			
AQS ID (AIRS #)	N/A			
GIS coordinates	Latitude: 33° 54' 05" Longitude: 118° 12' 18"			
Location	City of Compton Job Training Facility			
Address	700 N Bullis Rd, Compton, CA 90221			
County	Los Angeles			
Dist. to road	13 – 17 m			
Traffic count	1,000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	TSP (Lead)
Monitor objective	Highest Concentration	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Middle Scale	Middle Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	APMA 370	Thermo 42i	Thermo 49i	GMW
Serial #	H000CYAV	CM08360054	0610116251	N/A
Property #	E000347	16726	116251	1524
Last Calibration Date	3/5/10	2/12/10	2/26/10	02/05/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Inductively Coupled Argon Plasma-Mass Spectrometry
Start date	01/01/04	11/21/08	11/06/08	11/08
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.0	4.0	4.0	3.0
Distance from supporting structure	1.5	1.5	1.5	1.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	16	16	16	13
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.5	7.6	7.6	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	PM2.5 RAAS			
Monitor objective	Population Oriented			
Spatial scale	Neighborhood Scale			
Sampling method	Sierra Andersen RAAS PM2.5			
Serial #	00369			
Property #	E000004			
Last Calibration Date	2/2/10			
Analysis method	Gravimetric			
Start date	11/08			
Operation schedule	1:3			
Sampling season	All Year			
Probe height	2.5			
Distance from supporting structure	1.0			
Distance from obstructions on roof	NA			
Distance from obstructions not on roof	N/A			
Distance from trees	17			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			

Is it suitable for comparison against the annual PM2.5?	Yes			
Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Compton
Site Photos

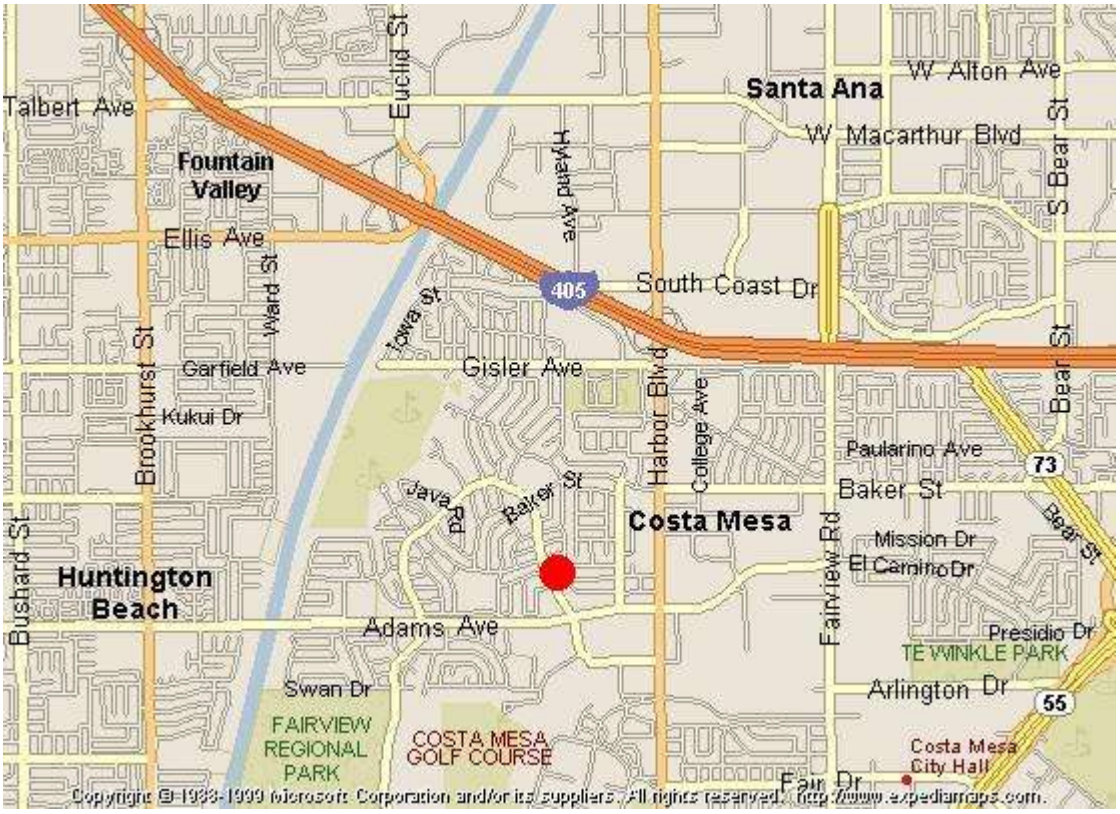
	
Looking North from the probe.	**Looking East from the probe.**
	
Looking South from the probe.	**Looking West from the probe.**

Compton
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

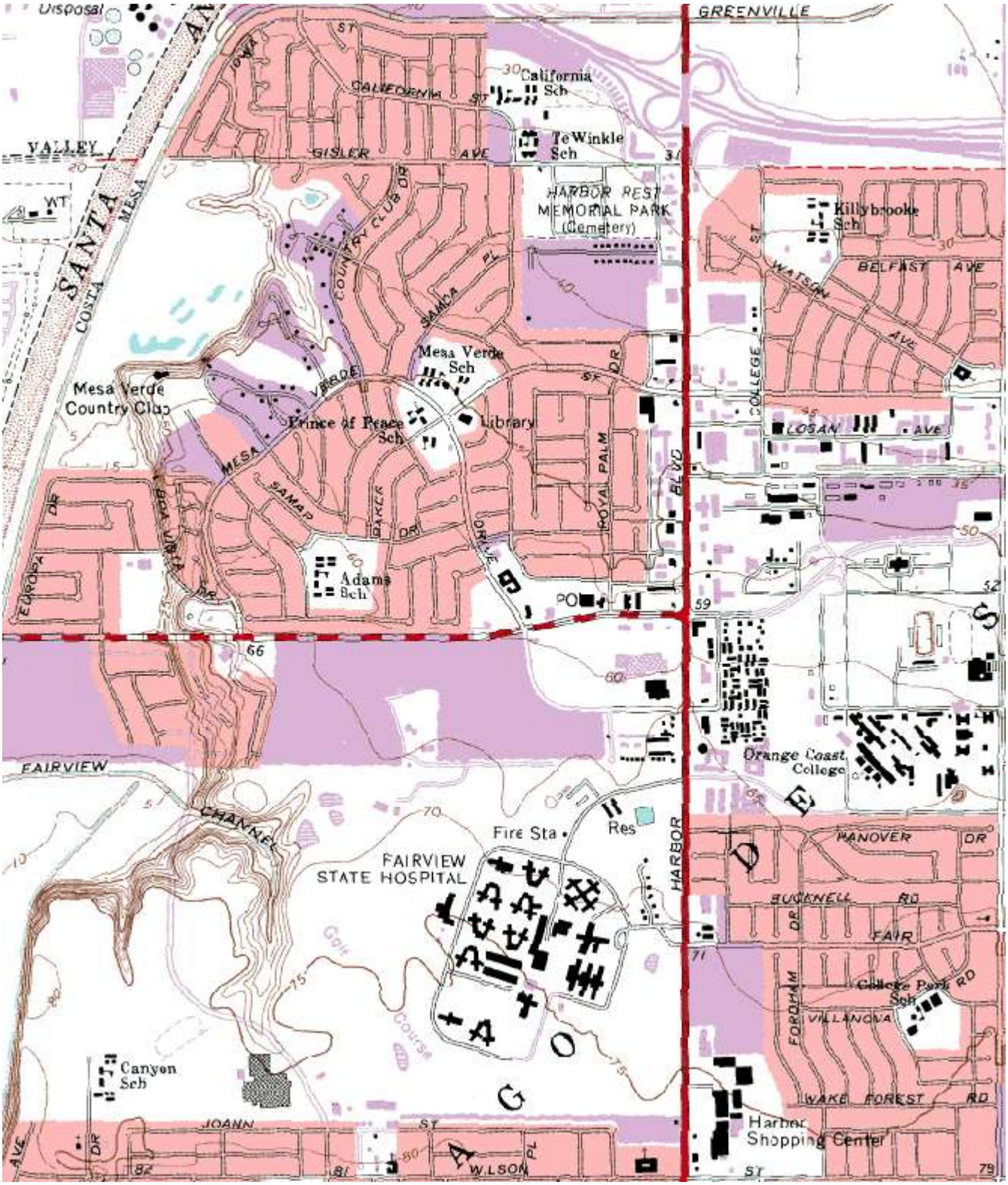
South Coast AQMD
Site Survey Report for Costa Mesa-Mesa Verde Drive

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060591003	30195	11/89	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
2850 Mesa Verde Dr East Costa Mesa, CA 92626	Orange	South Coast	33° 40' 28"	117° 55' 33"	17


GREENVILLE
California Sch
TeWinkle Sch
HARBOR REST MEMORIAL PARK (Cemetery)
Killybrooke Sch
BELFAST AVE
WATSON AVE
LOSAN AVE
COLLEGE
SANTA ANA
COSTA MESA
VALLEY
GISLER AVE
COUNTRY CLUB DR
SAMOA PL
Mesa Verde Sch
Mesa Verde Country Club
Prince of Peace Sch
Library
MESA VERDE DR
ROYAL PALM BLVC
BAKER DR
Adams Sch
PO
EUROPA DR
66
60
59
52
FAIRVIEW
CHANNEL
Fire Sta
Res
FAIRVIEW STATE HOSPITAL
Golf Course
HARBOR
Orange Coast College
HANOVER DR
BUSKNELL RD
FAIR
College Park Sch
FORDHAM
VILLANOVA
WAKE FOREST RD
Harbor Shopping Center
Canyon Sch
JOANN
WILSON PL
ST
AVE
DR

Site Survey Report

Siting Information

Site Name: Costa Mesa- Mesa Verde Drive	Date: 03/02/10	State Code: 30195	AIRS Number: 060591003
Address: 2850 Mesa Verde Dr East Costa Mesa, CA 92626	Latitude: 33° 40' 28"	Longitude: 117° 55' 33"	Elevation (m): 17
	Senior AQIS: Albert Dietrich	Site Technician: Charlie Decker	Site Phone: (714) 434-6783
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 34 meters	Region: Level	Probe Last Cleaned: 5/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt/Cement	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Costa Mesa-Mesa Verde Drive			
AQS ID (AIRS #)	060591003			
GIS coordinates	Latitude: 33° 40’ 26” Longitude: 117° 55’ 33”			
Location	Professional Center			
Address	2850 Mesa Verde Dr, East #116, Costa Mesa, CA 92626			
County	Orange			
Dist. to road	34 meters			
Traffic count	< 2000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	Thermo 42 i	API/Teledyne 400 E	Thermo Model 43 i
Serial #	41522310123	CM08360045	530-S	0831832124
Property #	16505	0016734	N/A	16750
Last Calibration Date	01/11/10	2/19/10	01/27/10	1/11/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	11/1/89	11/1/89	11/1/89	11/1/89
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	8.0	8.0	8.0	8.0
Distance from supporting structure	2	2	2	2
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	18	18	18	18
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	7.4	8.8	7.8	9.5
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Costa Mesa-Mesa Verde Drive
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Costa Mesa-Mesa Verde Drive
Site Photos (Cont.)

Looking at the probe from the North.

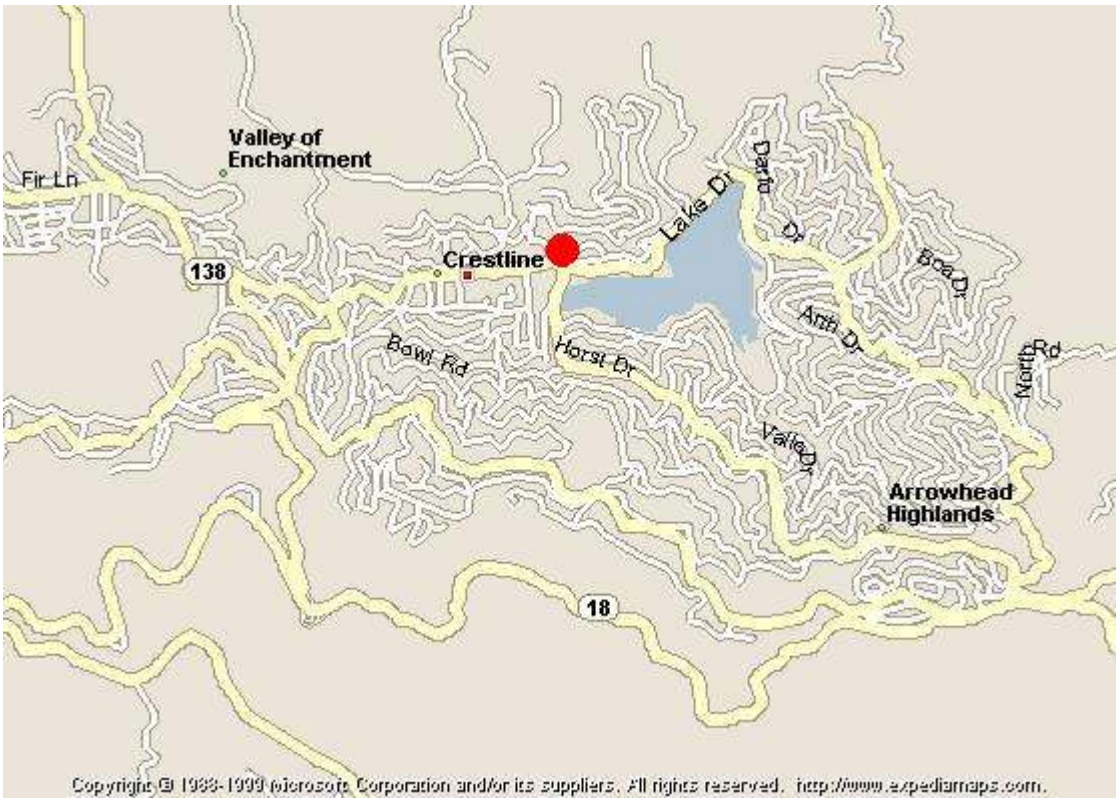
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

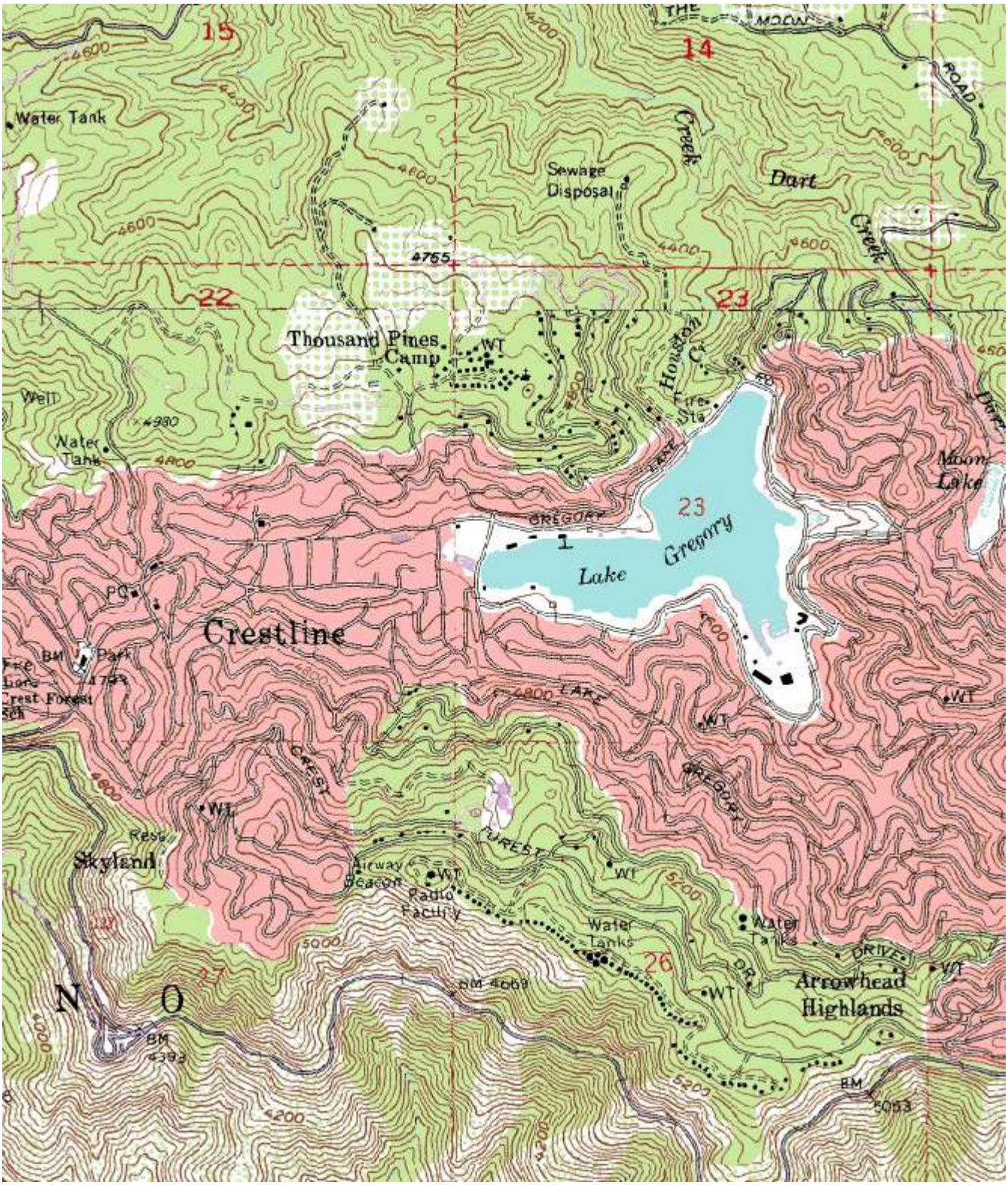
South Coast AQMD
Site Survey Report for Crestline (Lake Gregory)

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060710005	36181	10/73	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
24171 Lake Dr Crestline, CA 92325	San Bernardino	South Coast	34° 14' 35"	117° 16' 20"	1387


15
14
22
23
Water Tank
Sewage Disposal
Dart Creek
Thousand Pines Camp
WT
Well
Water Tank
Howard Cr.
Fire Sta
Moon Lake
Lake Gregory
Crestline
PO
Park
Crest Forest
Skyland
Rest
Airway Beacon
Radio Facility
Water Tanks
Arrowhead Highlands
DRIVE
ROAD
BM 4393
BM 5053
N
O

Site Survey Report

Siting Information

Site Name: Crestline (Lake Gregory)	Date: 4/21/10	ARB Number: 36181	State Code: 060710005
Address: 24171 Lake Dr Crestline, CA 92325	Latitude: 34° 14' 35"	Longitude: 117° 16' 20"	Elevation (m): 1387
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: (909) 338-2557
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Residential	Site: Lake front	Arc Air Flow (Deg): 270 Degrees
Recorded: Yes	Distance: 55 meters	Region: Mountainous	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 8000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: SCAQMD	Autocalibrator Type: Sabio 4010
	Distance: N/A	Urbanization: Rural / Forest	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Grass/weeds	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Crestline (Lake Gregory)			
AQS ID (AIRS #)	060710005			
GIS coordinates	Latitude: 34° 14’ 35” Longitude: 117° 16’ 20”			
Location	Park – Lake Front			
Address	24171 Lake Dr, Crestline, CA 92325			
County	San Bernardino			
Dist. to road	55 meters			
Traffic count	< 8000 veh/day			
Groundcover	Grass/Weeds			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Ozone	Ozone (Back-Up)	PM10-SSI	Met One Bam (non – FEM) PM2.5
Monitor obj	Highest Concentration	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Thermo	API/Teledyne 400	Sierra Andersen 1200	Met One 1020
Serial #	116250	532-S	N/A	B3868
Property #	N/A	N/A	4982	E000162
Last Calibration Date	11/24/09	Not in service	4/8/10	4/15/10
Analysis method	UV Photometric	UV Photometric	Gravimetric	Beta Attenuation
Start date	10/01/73	10/01/73	10/01/73	07/24/09
Operation schedule	1:1	1:1	1:6	Cont.
Sampling season	All Year	May – October	All Year	All Year
Probe height	3.0	3.0	4.0	4.5
Distance from supporting structure	1.0	1.0	1.9	2.0
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	10m
Distance from trees	9	9	8.0	7.0
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	N/A	N/A
Residence time	14.4	14.4	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	No

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	Nightly	Nightly	N/A	

Crestline (Lake Gregory)
Site Photos

Looking North from the probe.

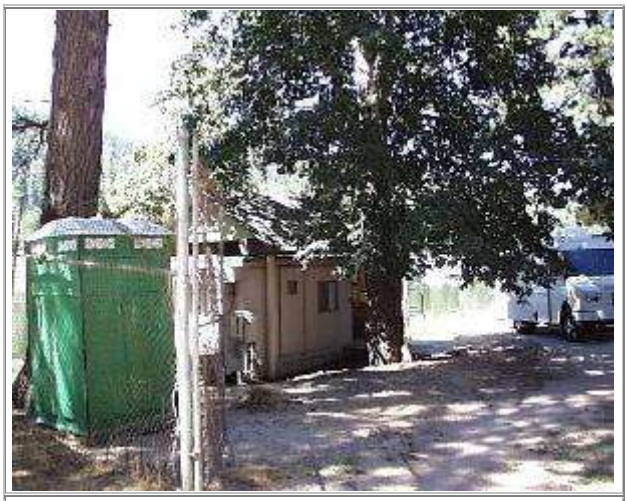
Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Crestline (Lake Gregory)
Site Photos (Cont.)

Looking at the probe from the North.



Looking at the probe from the East.

Looking at the probe from the South.

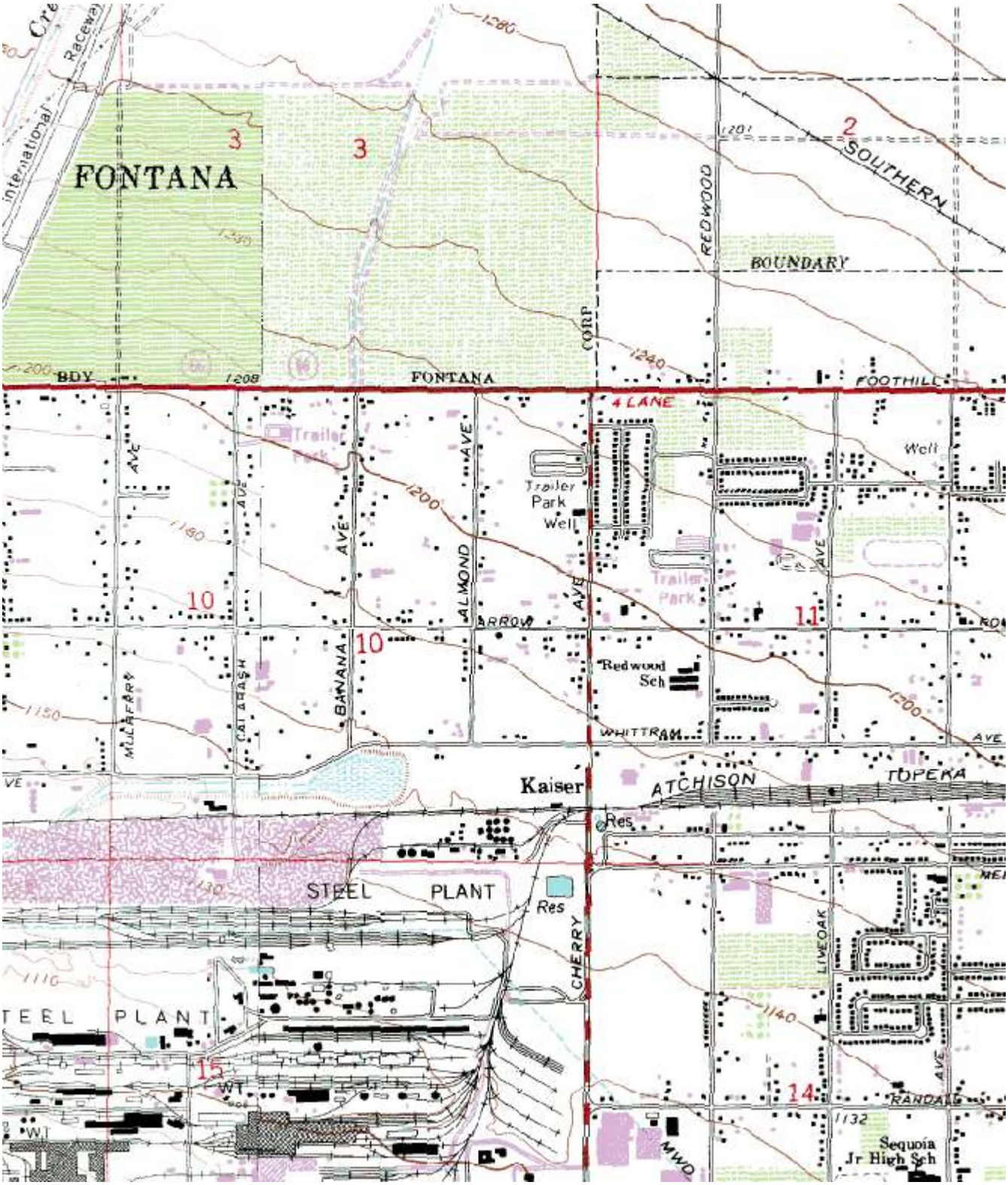
photo not available

South Coast AQMD
Site Survey Report for Fontana-Arrow Highway

Last updated March 2009

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060712002	36197	08/81	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
14360 Arrow Hwy Fontana, CA 92335	San Bernardino	South Coast	34° 06' 0"	117° 29' 31"	363


FONTANA
3
2
SOUTHERN
REDWOOD
BOUNDARY
CORP
FONTANA
FOOTHILL
4 LANE
Trailer Park
Well
Trailer Park Well
ALMOND
AVE
10
11
15
14
BANANA
ARROW
Redwood Sch
WHITTRAM
Kaiser
ATCHISON
TOPEKA
Res
STEEL PLANT
CHERRY
LIVEOAK
RANDALL
Sequoia Jr High Sch
MWD
1280
1240
1200
1180
1150
1140
1132
1130
1116
1209

Site Survey Report

Siting Information

Site Name: Fontana-Arrow Hwy	Date: 4/21/10	State Code: 36197	AIRS Number: 060712002
Address: 14360 Arrow Hwy Fontana, CA 92335	Latitude: 34° 06' 0"	Longitude: 117° 29' 31"	Elevation (m): 363
	Senior AQIS: Keith Brown	Site Technician: Richard Rodgers	Site Phone: (909) 823-8002
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: S
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 86 - 92 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 12500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Fontana-Arrow Highway			
AQS ID (AIRS #)	060712002			
GIS coordinates	Latitude: 34° 06’ 0”, Longitude: 117° 29’ 31”			
Location	Fire Station			
Address	14360 Arrow Highway, Fontana, CA 92335			
County	San Bernardino			
Dist. to road	86 – 92 meters			
Traffic count	12500 veh/day			
Groundcover	Gravel			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Urban Scale	Urban Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	Teledyne 200-E	API/Teledyne 400E	Thermo 43i
Serial #	41683490012	251	529-S	0831832123
Property #	0016514	E204	N/A	16747
Last Calibration Date	3/22/10	4/8/10	11/3/09	3/23/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	08/81	08/81	08/81	08/81
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.02	4.02	4.02	4.02
Distance from supporting structure	1.52	1.52	1.52	1.52
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	5.1	6.1	5.5	6.5
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM	N/A	N/A	N/A	N/A

analyzers audit				
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	PM10-SSI	PM10 SASS	PM2.5 RAAS	TSP – SO4
Monitor obj	Highest Concentration	Population exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	GMW 1200	SASS MetOne	Andersen RAAS2.5-300	GMW 1200
Serial #	N/A	C4160	00241	N/A
Property #	4991	E232	E000008	1552
Last Calibration Date	4/6/10	11/25/09	12/2/09	4/6/10
Analysis method	Gravimetric	Gravimetric	Gravimetric	Gravimetric
Start date	08/81	02/20/04	12/04/98	12/04/98
Operation schedule	1:6	1:6	1:3	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	2.4	2.9	2.9	2.4
Distance from supporting structure	1.5	1.9	1.9	1.5
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material				
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	Yes	No
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Fontana-Arrow Highway
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Fontana-Arrow Highway
Site Photos (Cont.)

Looking at the probe from the North.

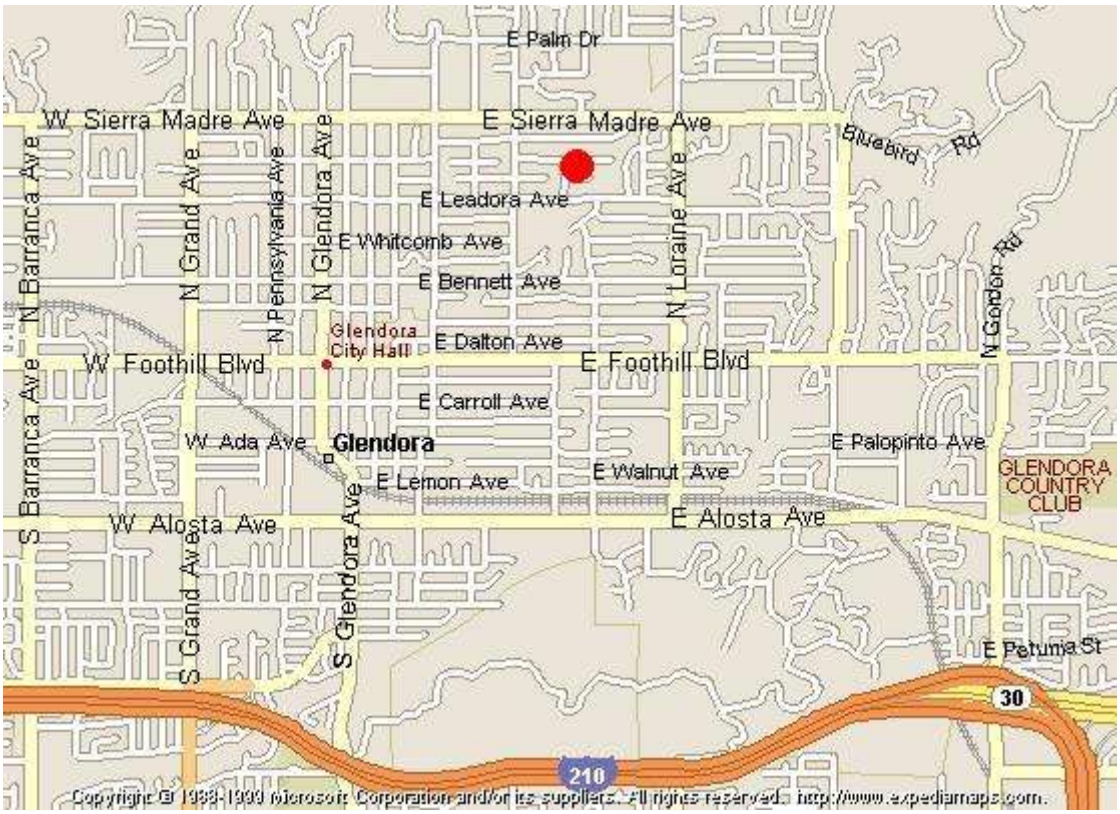
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

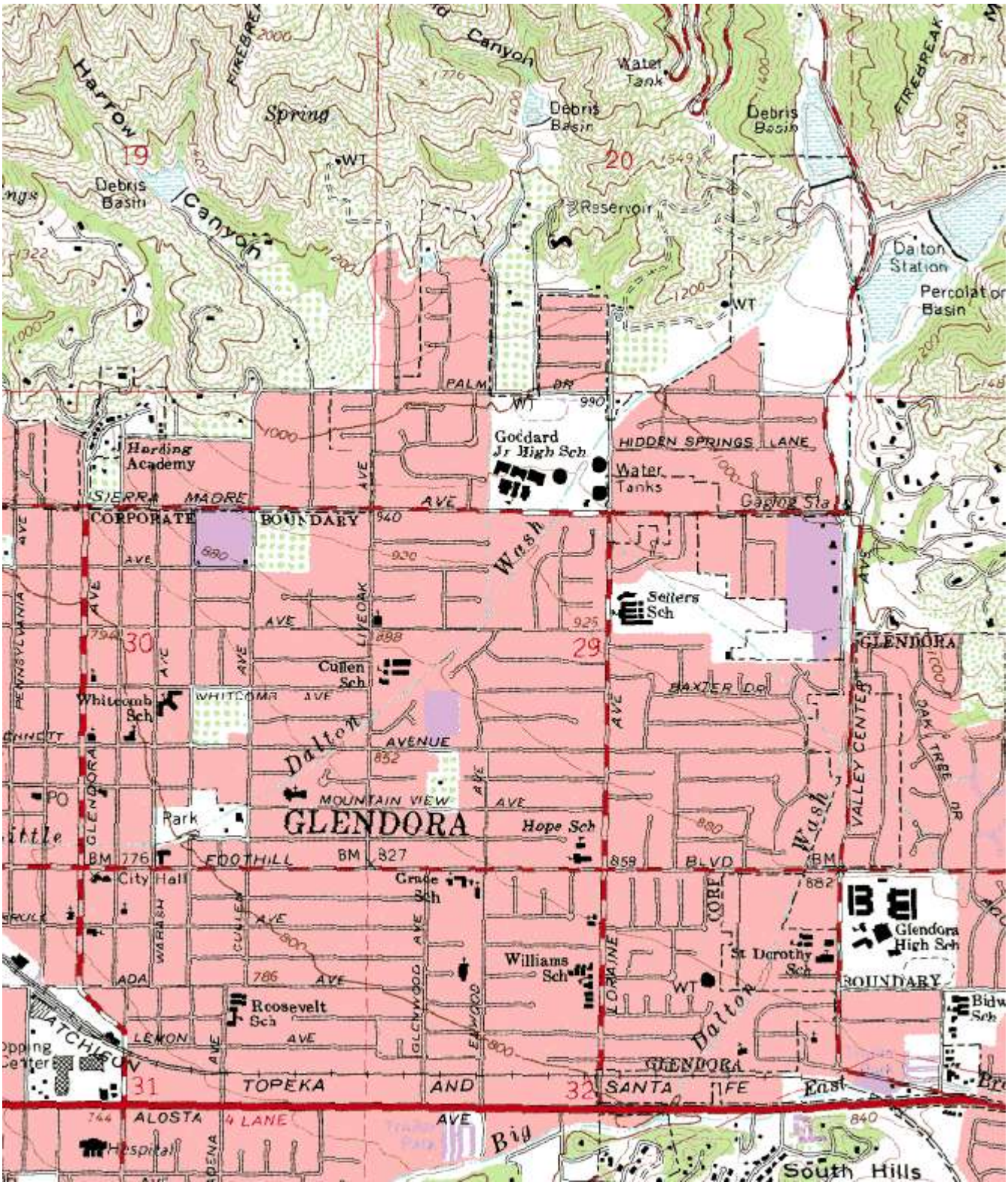
South Coast AQMD
Site Survey Report for Glendora-Laurel

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060370016	70591	08/80	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
840 Laurel Ave Glendora, CA 91741	Los Angeles	South Coast	34° 08' 39"	117° 51' 01"	278


Harrow Canyon
Spring
Debris Basin
Water Tank
Debris Basin
Debris Basin
Reservoir
Dalton Station
Percolator Basin
FIREBREAK
19
20
29
30
31
32
WT
PALM DR
Goddard Jr High Sch
HIDDEN SPRINGS LANE
Water Tanks
Harding Academy
SIERRA MADRE AVE
CORPORATE BOUNDARY
Wash
Sellers Sch
GLENDORA
Cullen Sch
Whitcomb Sch
WHITCOMB AVE
BAXTER DR
Dalton AVENUE
MOUNTAIN VIEW AVE
Park
GLENDORA
Hope Sch
FOOTHILL BLVD
BM 776
BM 827
BM
City Hall
Crace Sch
Williams Sch
St Dorothy Sch
Glendora High Sch
BOUNDARY
Roosevelt Sch
LEMON AVE
TOPEKA AND SANTA FE
East GLENDORA
ALOSTA 4 LANE AVE
Hospital
Big
South Hills
VALLEY CENTER
OAK TREE DR
PENNSYLVANIA AVE
GLENDORA AVE
LIVE OAK AVE
CULLEN AVE
WARASH AVE
ADA AVE
GLADYWOOD AVE
LORAINE AVE
CORF
ENRIGHT AVE

Site Survey Report

Siting Information

Site Name: Glendora-Laurel	Date: 4/21/10	State Code: 70591	AIRS Number: 060370016
Address: 840 Laurel Ave Glendora, CA 91741	Latitude: 34° 08' 39"	Longitude: 117° 51' 01"	Elevation (m): 278
	Senior AQIS: Keith Brown	Site Technician: Richard Rodgers	Site Phone: (626) 963-0112
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 121 meters	Region: Foothills	Probe Last Cleaned: 4/10
	Count (Veh/Day): 1834	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Dirt/Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Glendora-Laurel			
AQS ID (AIRS #)	060370016			
GIS coordinates	Latitude: 34° 08’ 40” Longitude: 117° 51’ 01”			
Location	City of Glendora-Vacant Property			
Address	840 Laurel Avenue, Glendora, CA 91741			
County	Los Angeles			
Dist. to road	121 meters			
Traffic count	1834 veh/day			
Groundcover	Dirt/weeds/gravel			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	BAM (PM10)
Monitor obj	Population Exposure	Population Exposure	Highest Concentration	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-370	Thermo 42i	API/Teledyne 400	Met One 1020
Serial #	J000XCVA	CM08360041	531-S	N/A
Property #	E000346	0016727	N/A	
Last Calibration Date	11/05/09	11/4/09	11/12/09	3/31/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Beta attenuation
Start date	08/80	08/80	08/80	3/31/10
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.2	4.2	4.2	4.95
Distance from supporting structure	1.1	1.1	1.1	1.85
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	16	16	16	16
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	7.1	6.7	3.9	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	PM2.5-BAM (Non FEM)			
Monitor obj	Population Exposure			
Spatial scale	Neighborhood Scale			
Sampling method	MetOne BAM 1020			
Serial #	A5941			
Property #	Sonoma Tech			
Last Calibration Date	3/31/10			
Analysis method	Beta Attenuation			
Start date	01/05/06			
Operation schedule	Cont			
Sampling season	All Year			
Probe height	4.9			
Distance from supporting structure	1.8			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	Yes			
Is it suitable for comparison against the annual PM2.5?	No			
Frequency of flow rate verification for manual PM samplers audit	N/A			

Frequency of flow rate verification for automated PM analyzers audit	Bi-Weekly			
Frequency of one-point QC check (gaseous)	N/A			

Glendora-Laurel
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Glendora-Laurel
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

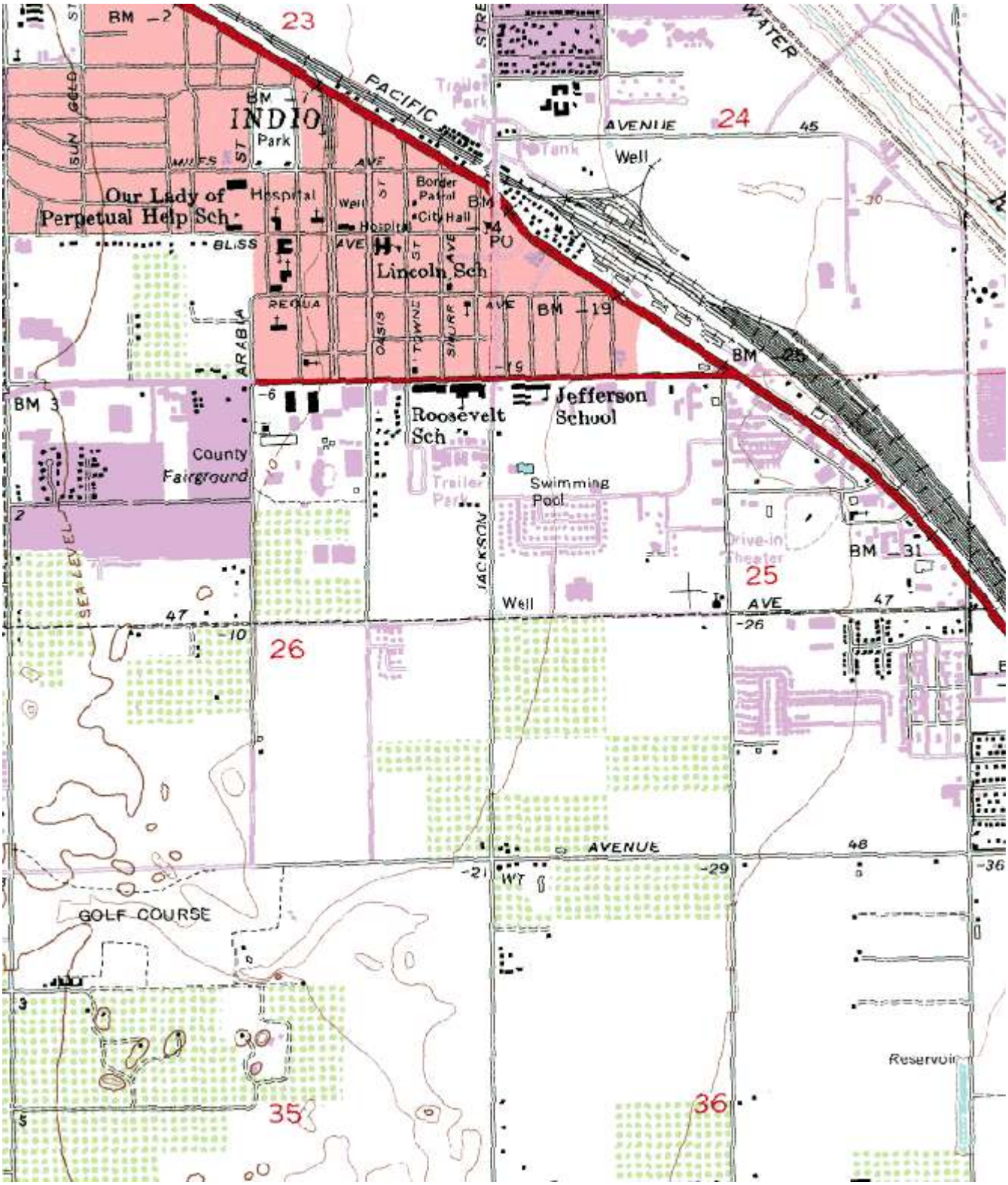
Looking at the probe from the West.

South Coast AQMD
Site Survey Report for Indio-Jackson Street

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060652002	33157	01/83	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
46990 Jackson St Indio, CA 92201	Riverside	Salton Sea	33° 42' 30"	116° 12' 55"	0


INDIO
Park
Our Lady of Perpetual Help Sch
Hospital
Lincoln Sch
Border Patrol
City Hall
PO
Roosevelt Sch
Jefferson School
Swimming Pool
County Fairground
Trailer Park
Drive-in Theater
Well
Tank
GOLF COURSE
Reservoir
PACIFIC
AVENUE
BLISS
ARABIA
OASIS
TYLER
SMURR
JACKSON
SEA LEVEL
23
24
25
26
35
36

Site Survey Report

Siting Information

Site Name: Indio-Jackson St	Date: 4/21/10	State Code: 33157	AIRS Number: 060652002
Address: 46990 Jackson St Indio, CA 92201	Latitude: 33° 42' 30"	Longitude: 116° 12' 55"	Elevation (m): 0
	Senior AQIS: Keith Brown	Site Technician: Jeff Baerenwald	Site Phone: (760) 347-6920
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SE
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 88 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 16528	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Dirt Lot	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: 6	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: E	Ground Cover: Asphalt/dirt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Indio-Jackson Street			
AQS ID (AIRS #)	060652002			
GIS coordinates	Latitude: 33° 42’ 30” Longitude: 116° 12’ 55”			
Location	Police Department			
Address	46990 Jackson Street, Indio, CA 92201			
County	Riverside			
Dist. to road	88 meters			
Traffic count	16258			
Groundcover	Asphalt/dirt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Ozone	PM10-SSI (A)	PM10-SSI (B)	PM10-SSI (C)
Monitor obj	Population Oriented	Highest Concentration	Highest Concentration	Highest Concentration
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	API/Teledyne 400E	Tisch TE300-310	Tisch TE300-310	Tisch TE300-310
Serial #	526-S	15397 A-1	1593-B	1559 A-2
Property #	N/A	15532	0003982	53044
Last Calibration Date	4/13/10	02/09/10	02/09/10	02/09/10
Analysis method	UV Photometric	Gravimetric	Gravimetric	Gravimetric
Start date	1/83	1/83	01/01	03/03
Operation schedule	1:1	1:6	1:6	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	9.0	3.5	3.5	3.5
Distance from supporting structure	1.1	1.6	1.6	1.6
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	2.0	2.0	2.0
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	N/A	N/A	N/A
Residence time	12.5	N/A	N/A	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	N/A	N/A	N/A

Pollutant	BAM PM10	PM2.5 – A	PM2.5 – B	PM 10 TEOM
Monitor obj	Highest Concentration	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	BAM PM10	Andersen 300	Andersen 300	Teom 1400n
Serial #	Andersen #99	346	442	140AB263200607
Property #	10589	E000021	N/A	E000338
Last Calibration Date	11/14/08	2/5/10	07/07/09	2/25/10
Analysis method	Beta attenuation	Gravimetric	Gravimetric	TEOM
Start date	04/17/03	02/04/99	12/30/99	02/09/09
Operation schedule	1:1	1:3	1:6	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	7.0	4.8	4.8	7.0
Distance from supporting structure	1.8	1.6	1.6	1.8
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	2.0	2.0	N/A
Unrestricted airflow	Yes	Yes	Yes	N/A
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	No	Yes	Yes	No
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	Monthly	N/A	N/A	Monthly

Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Indio-Jackson Street
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Indio-Jackson Street
Site Photos (Cont.)

Looking at the probe from the North.

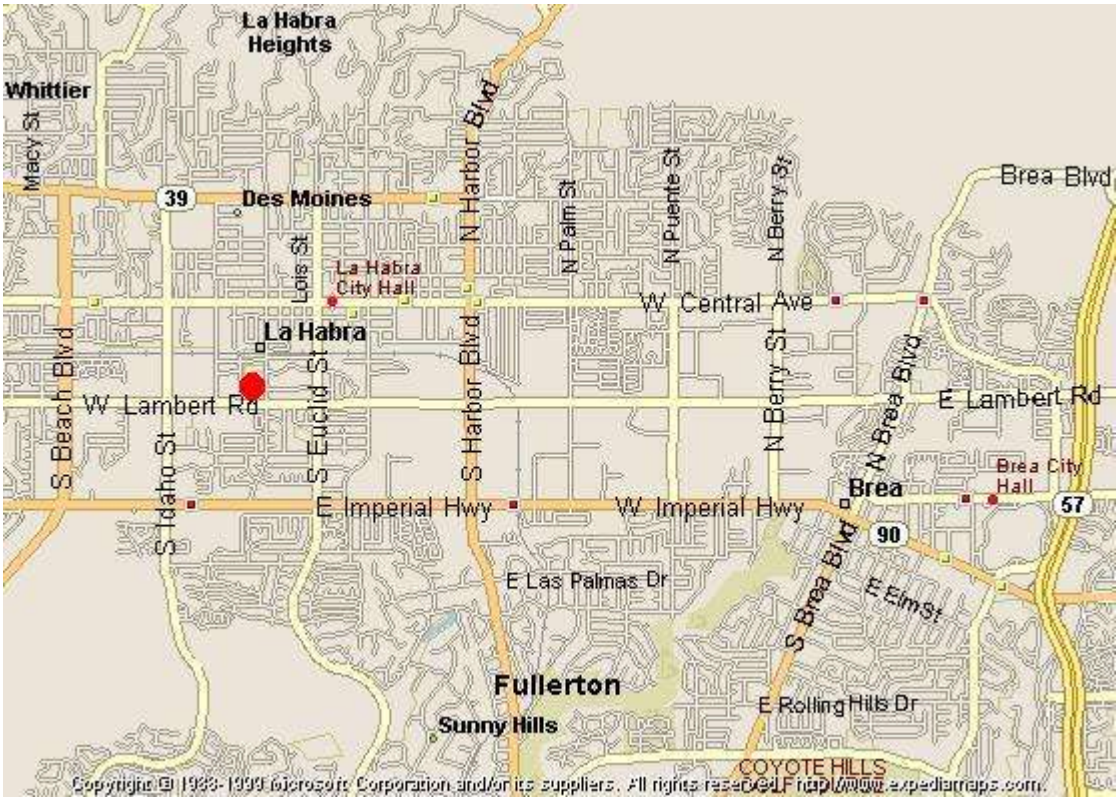
Looking at the probe from the East.

Looking at the probe from the South.

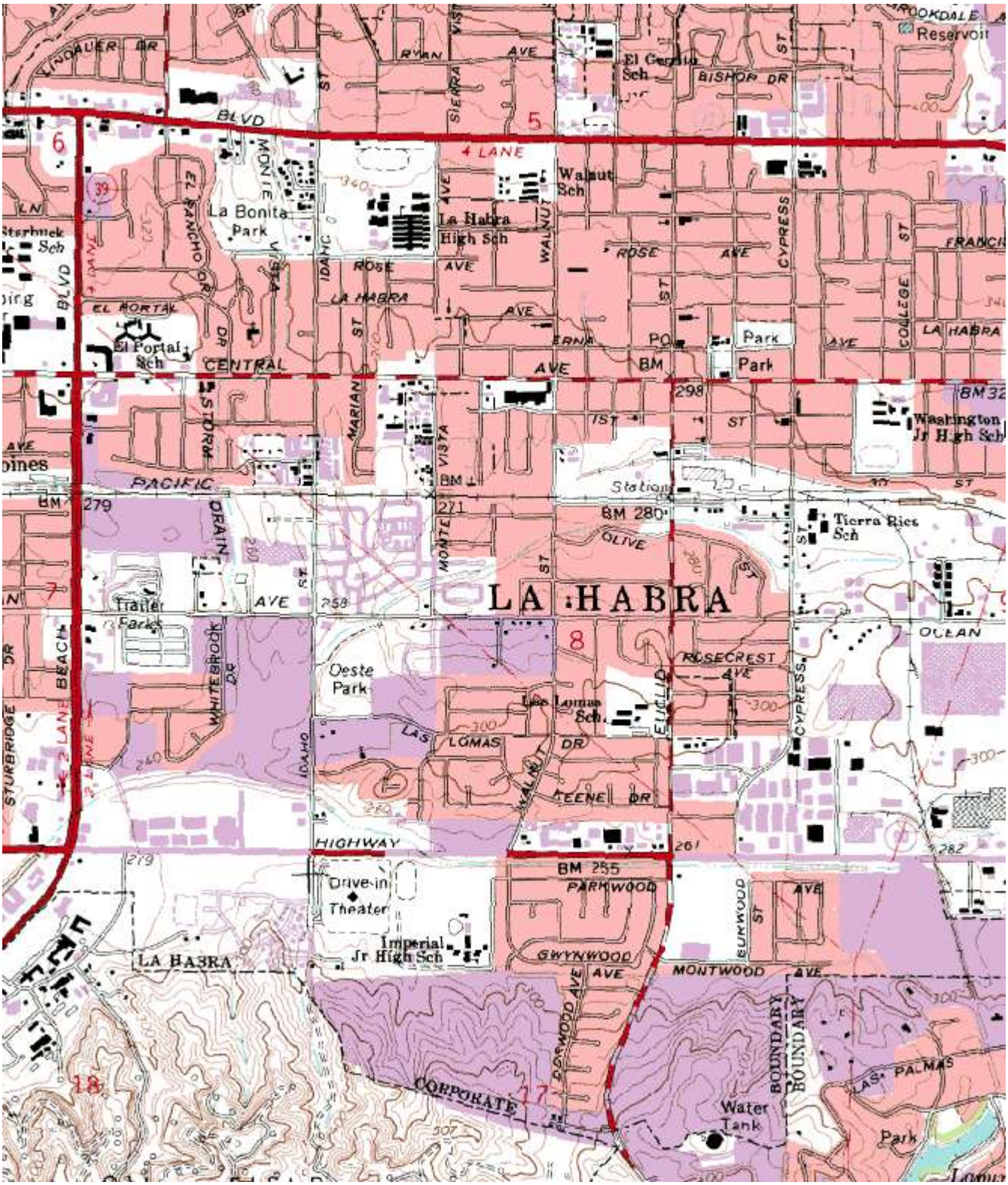
Looking at the probe from the West.

South Coast AQMD
Site Survey Report for La Habra

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060595001	30177	08/60	South Coast AQMD (061)		
Site Address	**County**	**Air Basin**	**Latitude**	**Longitude**	**Elevation**
621 W Lambert Rd La Habra, CA 90631	Orange	South Coast	33° 55' 30"	117° 57' 09"	82


LA HABRA
BLVD
4 LANE
ROSE AVE
LA HABRA AVE
CENTRAL AVE
PACIFIC
OLIVE
ROSECREST AVE
LOMAS DR
LEENE DR
HIGHWAY
PARKWOOD
GWYNNWOOD AVE
MONTWOOD AVE
CORPORATE
BOUNDARY
BOUNDARY
Walnut Sch
La Habra High Sch
La Bonita Park
El Portal Sch
Park
Washington Jr High Sch
Tierra Rica Sch
Oeste Park
Las Lomas Sch
Drive-in Theater
Imperial Jr High Sch
Water Tank
Reservoir
Trailer Parks
BM 279
BM 280
BM 255
271
298
258
261
LA HABRA

Site Survey Report

Siting Information

Site Name: La Habra	Date: 4/21/10	State Code: 30177	AIRS Number: 060595001
Address: 621 W Lambert Rd La Habra, CA 90631	Latitude: 33° 55' 30"	Longitude: 117° 57' 09"	Elevation (m): 82
	Senior AQIS: Albert Dietrich	Site Technician: Tom Mac	Site Phone: (714) 870-1453
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 40 meters	Region: Level	Probe Last Cleaned: 5/10
	Count (Veh/Day): 66200	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Refueling	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: 28	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: NE	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	La Habra			
AQS ID (AIRS #)	060595001			
GIS coordinates	Latitude: 33° 55’ 30” Longitude: 117° 57’ 09”			
Location	La Habra City Yard			
Address	621 W Lambert Rd, La Habra, CA 90631			
County	Orange			
Dist. to road	40 meters			
Traffic count	66200 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	
Monitor obj	Population Oriented	Population Oriented	Population Oriented	
Spatial scale	Neighborhood Scale	Urban Scale	Neighborhood Scale	
Sampling method	Horiba APMA-360	Thermo 42i	Thermo 49i	
Serial #	576876071	CM08360036	116252	
Property #	0016211	0016724	N/A	
Last Calibration Date	12/17/09	12/17/09	12/15/09	
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	
Start date	08/60	08/60	08/60	
Operation schedule	1:1	1:1	1:1	
Sampling season	All Year	All Year	All Year	
Probe height	5.3	5.3	5.3	
Distance from supporting structure	2.0	2.0	2.0	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	3	3	3	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	N/A	N/A	N/A	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	Teflon	Teflon	Teflon	
Residence time	6.9	7.5	7.5	
Will there be changes within the next 18 months?	Yes	Yes	Yes	
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	

La Habra
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

La Habra
Site Photos (Cont.)

Looking at the probe from the North.

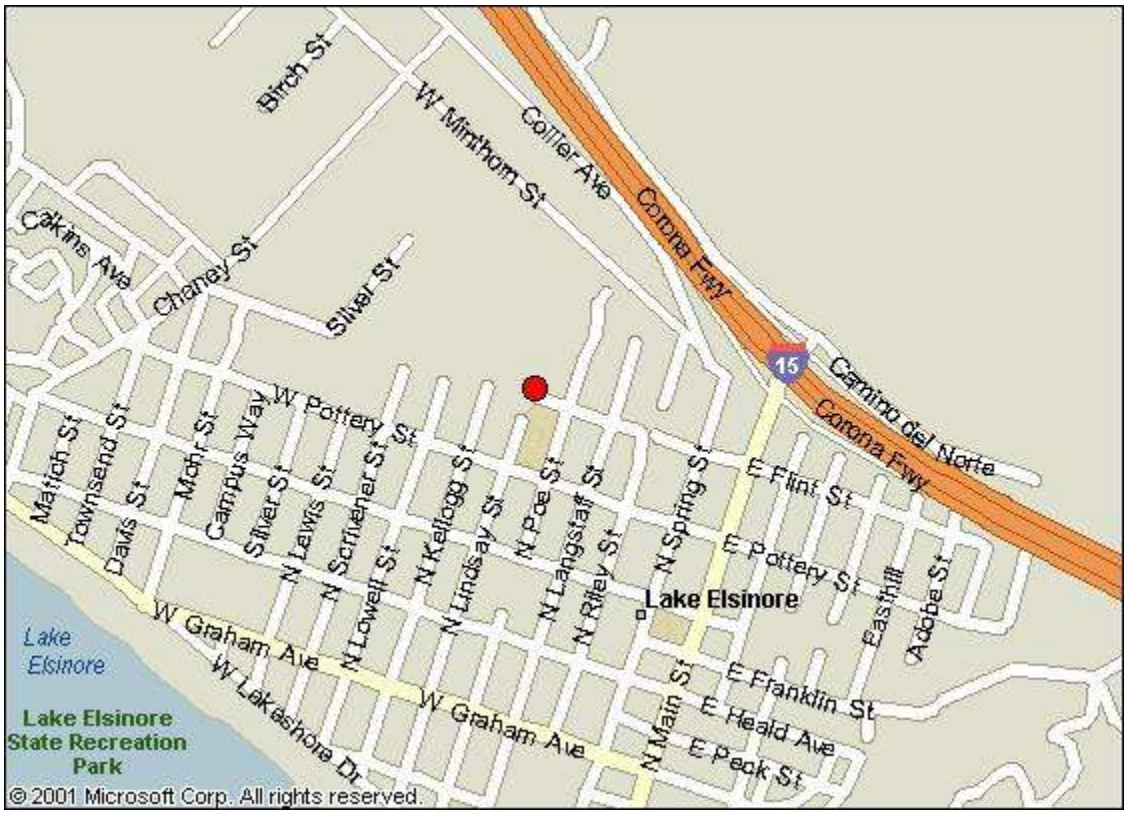
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

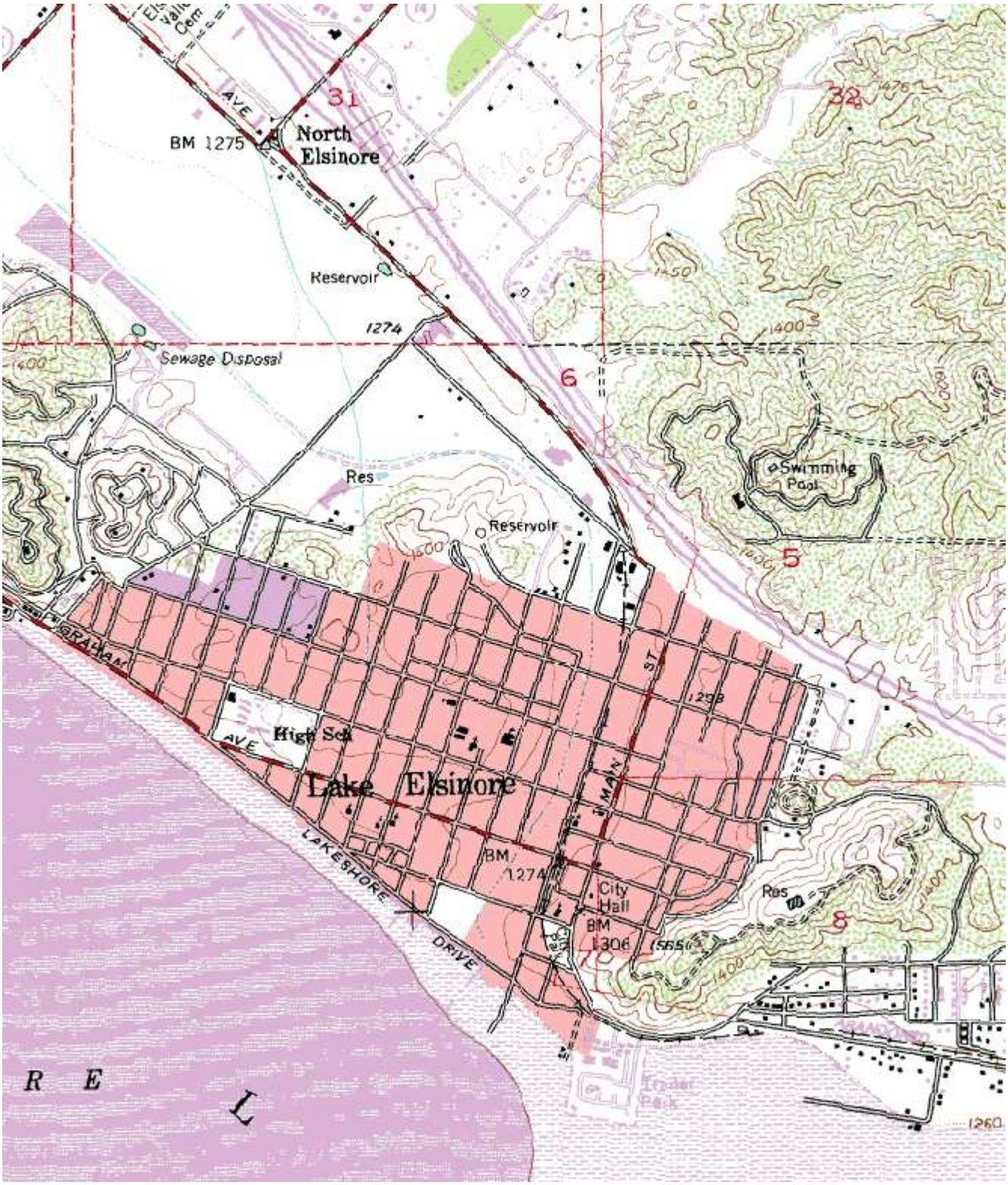
South Coast AQMD
Site Survey Report for Lake Elsinore-W Flint Street

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060659001	33158	06/87	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
506 W Flint St Lake Elsinore, CA 92530	Riverside	South Coast	33° 40' 35"	117° 19' 51"	410


North Elsinore
BM 1275
Reservoir
1274
Sewage Disposal
Res
Reservoir
Swimming Pool
Lake Elsinore
High Sch
AVE
GRAHAM
MAIN
ST
LAKESHORE
DRIVE
BM 1274
City Hall
BM 1306
Res
31
32
6
5
8
1400
1450
1500
1600
1260

Site Survey Report

Siting Information

Site Name: Lake Elsinore-W Flint St	Date: 03/02/10	State Code: 33158	AIRS Number: 060659001
Address: 506 W Flint St Lake Elsinore, CA 92530	Latitude: 33° 40' 35"	Longitude: 117° 19' 51"	Elevation (m): 410
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: (951) 674-2616
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: S
Controlled: Yes	Description: Residential	Site: Hilltop	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 50 meters	Region: Valley	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: SCAQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Rural	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Lake Elsinore-W Flint Street			
AQS ID (AIRS #)	060659001			
GIS coordinates	Latitude: 33° 40’ 35” Longitude: 117° 19’ 51”			
Location	Vacant Lot			
Address	506 W Flint St, Lake Elsinore, CA 92530			
County	Riverside			
Dist. to road	50 meters			
Traffic count	< 2000 veh/day			
Groundcover	Asphalt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	TEOM PM10
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	Teco 42 i	Thermo 49i	R&P 1400A
Serial #	41407730011	CM08360053	116255	140A-2197
Property #	0016506	16741	N/A	ARB20003765
Last Calibration Date	3/4/10	3/11/10	02/2/10	12/08/09
Analysis method	Non dispersive infra red	06/87	UV Photometric	TEOM
Start date	06/87	06/87	06/87	
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.1	4.1	4.1	4.35
Distance from supporting structure	1.8	1.8	1.8	1.8
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	17	17	17	10
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	8.2	8.3	10.5	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	BAM-PM2.5			
Monitor obj	Population Exposure			
Spatial scale	Neighborhood Scale			
Sampling method	Met One BAM1020			
Serial #	A2549			
Property #	Sonoma Tech			
Last Calibration Date	3/5/10			
Analysis method	N/A			
Start date	01/17/06			
Operation schedule	1:1			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	10			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	No			
Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	Monthly			
Frequency of one-point QC check (gaseous)	N/A			

Lake Elsinore-W Flint Street
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Lake Elsinore-W Flint Street
Site Photos (Cont.)

Looking at the probe from the North.

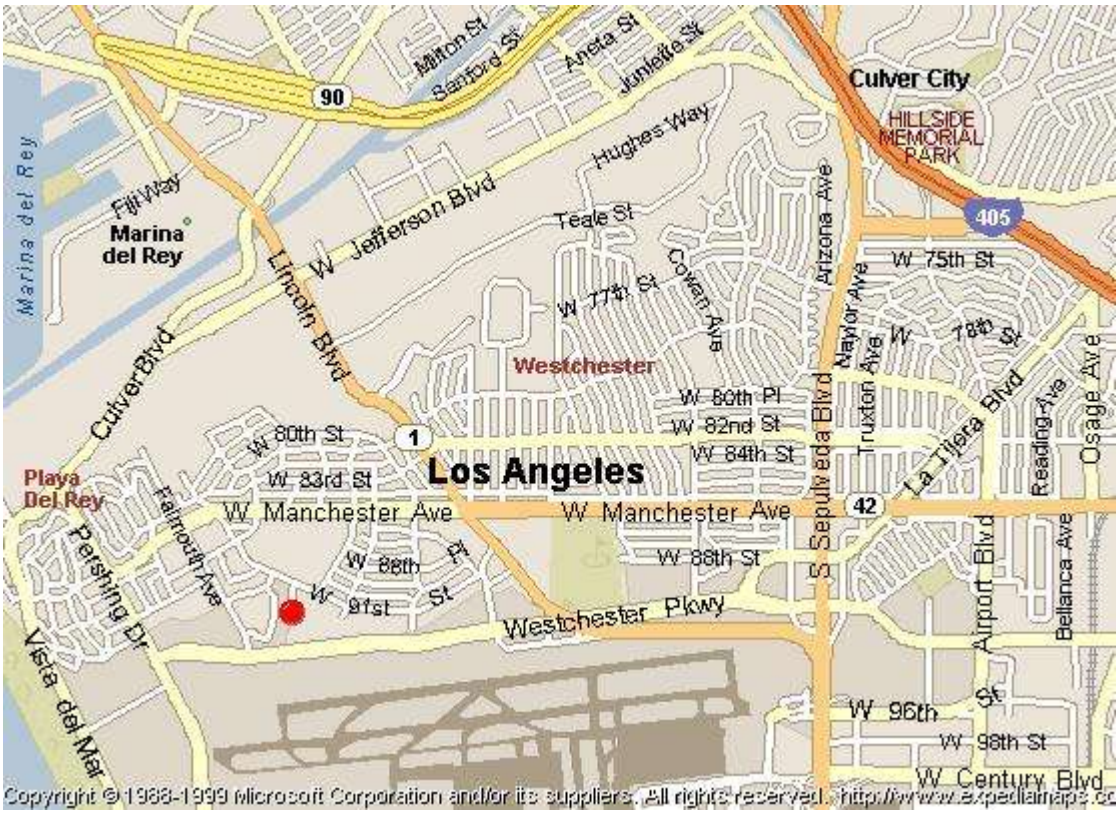
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

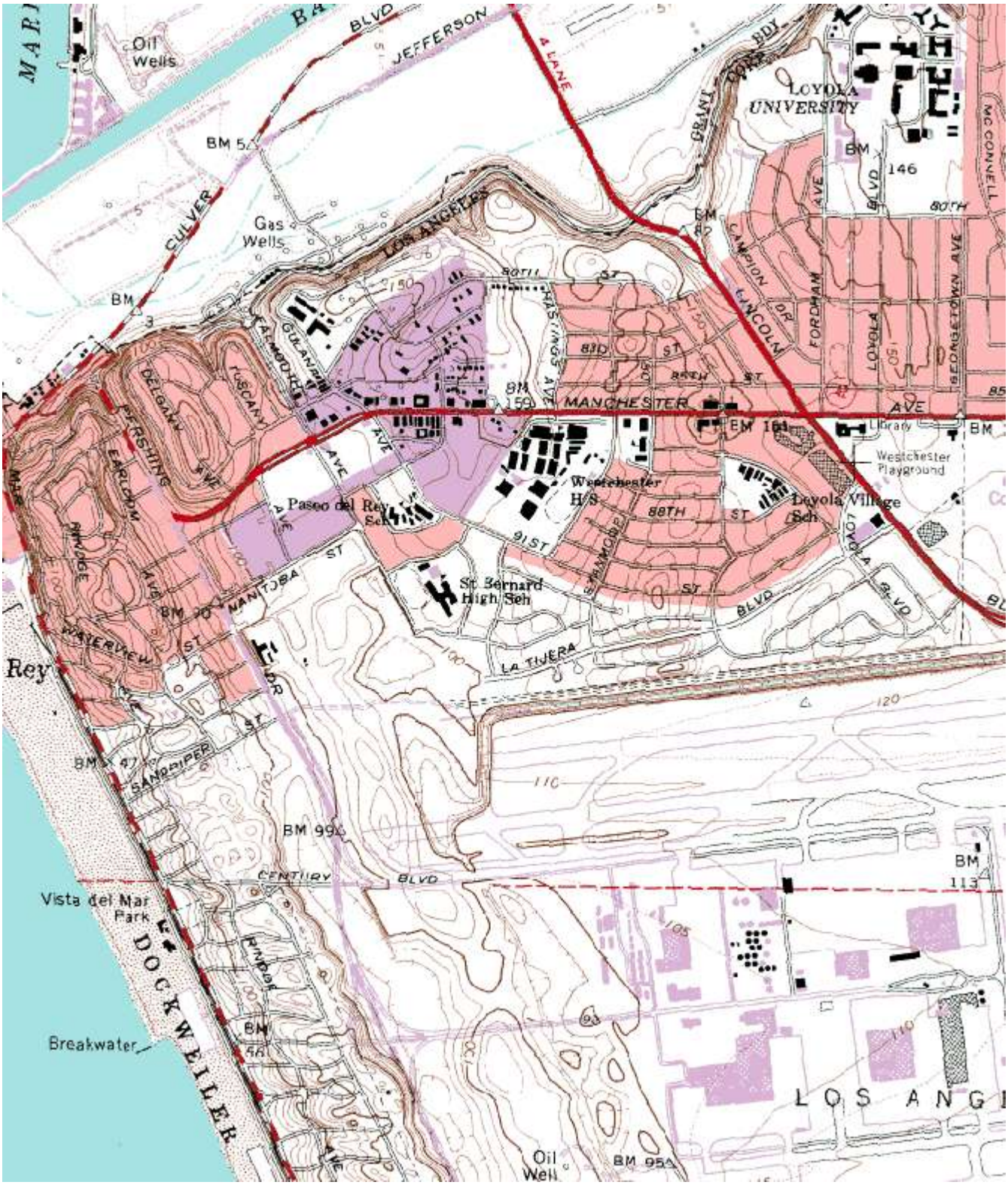
Quality Assurance
Site Survey Report for LAX - Hastings

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060375005	70111	04/04	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
7201 W Westchester Pkwy Los Angeles, CA 90045	Los Angeles	South Coast	33° 57' 18"	118° 25' 49"	37


Oil Wells
JEFFERSON BLVD
4 LANE
LOYOLA UNIVERSITY
BM 146
BM 54
CULVER
Gas Wells
LOS ANGELES
BM 3
BM 159
MANCHESTER AVE
BM 161
Library
Westchester Playground
Westchester H/S
Loyola Village Sch
Paseo del Rey Sch
St Bernard High Sch
88TH ST
91ST ST
MANITOBA ST
LA TIJERA BLVD
CENTURY BLVD
BM 99
BM 113
Vista del Mar Park
DOCKWEILER
Breakwater
Oil Well
BM 95
LOS ANG

Site Survey Report

Siting Information

Site Name: LAX - Hastings	Date: 4/21/10	State Code: 70111	AIRS Number: 060375005
Address: 7201 W Westchester Pkwy Los Angeles, CA 90045	Latitude: 33° 57' 18"	Longitude: 118° 25' 49"	Elevation (m): 37
	Senior AQIS: Albert Dietrich	Site Technician: Charlie Decker	Site Phone: (310) 338-0693
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: NE
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 85 - 92 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: LAX	Agency: SCAQMD	Autocalibrator Type: Environics 100
	Distance: 600	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: S	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	LAX - Hastings			
AQS ID (AIRS #)	060375005			
GIS coordinates	Latitude: 33° 57’ 15” Longitude: 118° 25’ 49”			
Location	LAX Property			
Address	7201 W Westchester Pkwy, Los Angeles, CA 90045			
County	Los Angeles			
Dist. to road	85 - 92 meters			
Traffic count	2,000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Middle Scale	Middle Scale	Middle Scale	Neighborhood Scale
Sampling method	Horiba APMA-370	Thermo 42 i	API/Teledyne 400	Thermo 43 I TLE
Serial #	576876074	CM08360044	524-5	
Property #	16669	16735	N/A	16751
Last Calibration Date	12/31/09	01/07/10	01/08/10	01/12/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	04/12/04	04/12/04	04/12/04	04/12/04
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.2	4.2	4.2	4.2
Distance from supporting structure	1.8	1.8	1.8	1.8
Distance from obstructions on roof	2	2	2	2
Distance from obstructions not on roof	16	16	16	16
Distance from trees	16	16	16	16
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	2	2	2	2
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	5.5	6.8	6.1	6.6
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM	N/A	N/A	N/A	N/A

analyzers audit				
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	TSP (Lead)	VOC PAMS (Type 1)	VOC PAMS (Type 1)	PM10
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Middle Scale	Middle Scale	Neighborhood Scale
Sampling method	GMW 1200	Xontech 910A	Xontech 910A/912	GMW SSI
Serial #	1551	3420	006114	50470
Property #	N/A	0013775	0016680	N/A
Last Calibration Date	3/16/10	11/04/09	05/14/09	02/03/10
Analysis method	Gravimetric	TO-14 PAMS	TO-14 PAMS	Gravimetric
Start date	04/12/04	04/12/04	04/12/04	04/12/04
Operation schedule	1:6	1:6	1:6	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	2.0	3.8	3.8	2.0
Distance from supporting structure	1.1	1.4	1.4	1.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	16	16	16	16
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	SS	SS	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

LAX - Hastings
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

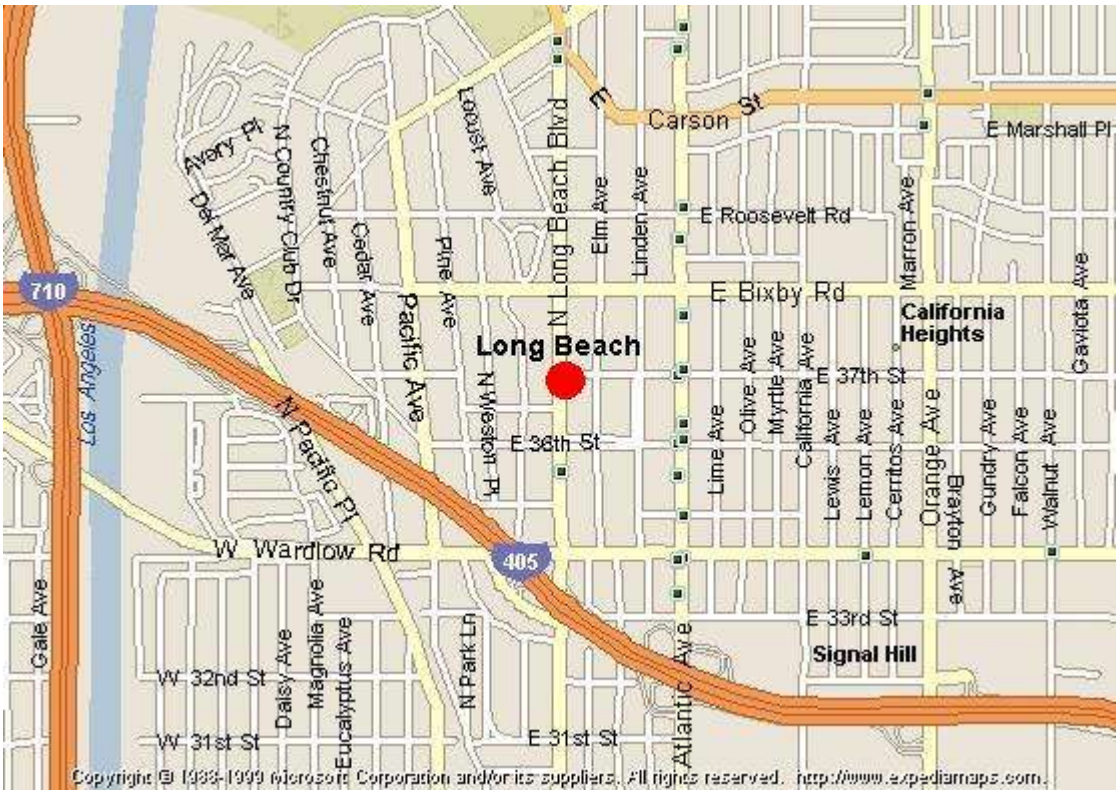
Looking West from the probe.

LAX - Hastings
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

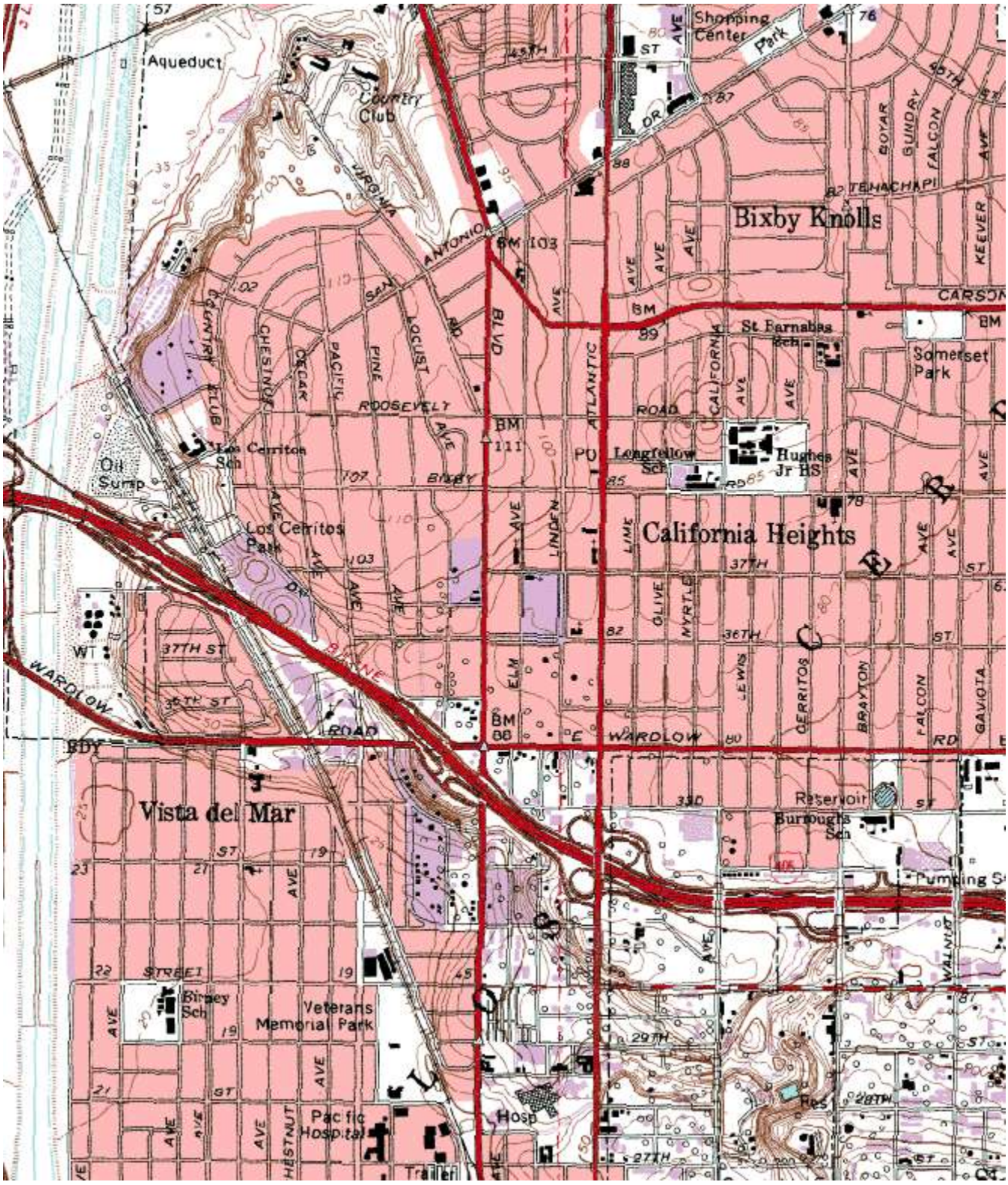
South Coast AQMD
Site Survey Report for North Long Beach (Long Beach)

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374002	70072	10/62	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
3648 N Long Beach Blvd Long Beach, CA 90807	Los Angeles	South Coast	33° 49' 25"	118° 11' 20"	29


Aqueduct
Country Club
Shopping Center
Park
Bixby Knolls
California Heights
Vista del Mar
Los Cerritos Park
Los Cerritos Sch
Oil Sump
St Barnabas Sch
Somerset Park
Longfellow Sch
Hughes Jr HS
Reservoir
Burroughs Sch
Birney Sch
Veterans Memorial Park
Pacific Hospital
Hosp
Trailer
Res
Pumping S
WARDLOW ROAD
E WARDLOW RD
ATLANTIC BLVD
LONG BEACH BLVD
CARSON
ROOSEVELT ROAD
37TH ST
36TH ST
29TH
27TH
STREET
BM 103
BM 111
BM 88
PU
WT
BDY

Site Survey Report

Siting Information

Site Name: North Long Beach (Long Beach)	Date: 4/21/10	State Code: 70072	AIRS Number: 060374002
Address: 3648 N Long Beach Blvd Long Beach, CA 90807	Latitude: 33° 49' 25"	Longitude: 118° 11' 20"	Elevation (m): 29
	Senior AQIS: Albert Dietrich	Site Technician: Paul Mayo	Site Phone: (562) 424-5420
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 8 – 55 meters	Region: Coastal	Probe Last Cleaned: 4/10
	Count (Veh/Day): 19900	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Urban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	North Long Beach (Long Beach)			
AQS ID (AIRS #)	060374002			
GIS coordinates	Latitude: 33° 49’ 25” Longitude: 118° 11’ 20”			
Location	Business Store Front			
Address	3648 N Long Beach Blvd, Long Beach, CA 90807			
County	Los Angeles			
Dist. to road	8 – 55 meters			
Traffic count	19900 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Highest Concentration	Population Oriented	Population Oriented	Highest Concentration
Spatial scale	Microscale	Middle Scale	Middle Scale	Neighborhood Scale
Sampling method	APMA-370	API 200E	API 400E	Thermo 43i-TLE
Serial #	D000D6UK	270	523-S	0831832130
Property #	E000344	E000222	N/A	16748
Last Calibration Date	01/29/10	01/24/10	02/03/10	02/02/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	10/62	10/62	10/62	10/62
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	6.4	6.4	6.4	6.4
Distance from supporting structure	1.1	1.1	1.1	1.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	5	5	5	5
Distance from trees	6	6	6	6
Distance from nearest traffic lane	6	6	6	6
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	6.1	8.4	6.9	8.9
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	No	No	No	No
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A

audit				
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	PM10-SSI	TSP A (Lead)	TSP B (Lead)	TEOM PM 10
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Middle Scale	Microscale	Microscale	Middle scale
Sampling method	GMW	GMW	GMW	TEOM RP 1400A
Serial #	N/A	N/A	N/A	140AB263190607
Property #	4934	1542	1583	E000337
Last Calibration Date	12/10/09	12/10/09	12/10/09	10/30/09
Analysis method	Gravimetric	Inductively Coupled Argon Plasma-Mass Spectrometry	Inductively Coupled Argon Plasma-Mass Spectrometry	TEOM
Start date		9/90	9/90	
Operation schedule	1:6	1:6	1:6	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	6.7	6.3	6.3	7.0
Distance from supporting structure	1.4	1.1	1.0	1.8
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	6	4	4	4
Distance from trees	6	6	6	6
Distance to nearest traffic lane	8	8	8	8
Distance between collocated monitors	2	3	3	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Pollutant	PM2.5 RAAS	VOC		
Monitor obj	Highest Concentration	Population Oriented		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	Andersen RAAS2.5-300	Xontech 910 PC ARB		
Serial #	359	4344		
Property #	E000003	20005229 (ARB)		
Last Calibration Date	4/8/10	N/A		
Analysis method	Gravimetric	Analyzed by CARB lab		
Start date	01/03/99			
Operation schedule	1:1	1:12		
Sampling season	All Year	All Year		
Probe height	2.8	7.0		
Distance from supporting structure	1.8	1.7		
Distance from obstructions on roof	N/A	N/A		
Distance from nearest traffic lane	55	6		
Distance from trees	20	6		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	N/A	SS/Glass/Teflon		
Residence time	N/A	N/A		
Will there be changes within the next 18 months?	No	No		
Is it suitable for comparison against the annual PM2.5?	Yes	N/A		

Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	

Pollutant	ARB Toxics 924			
Monitor obj	Population Oriented			
Spatial scale	Neighborhood Scale			
Sampling method	RM Environmental Systems Inc. 924			
Serial #	9241009			
Property #	20021012 (ARB)			
Last Calibration Date	06/12/09			
Analysis method	Analyzed by CARB lab			
Start date	01/03/99			
Operation schedule	1:12			
Sampling season	All Year			
Probe height	7.2			
Distance from supporting structure	1.9			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	8			
Distance from trees	6			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			

Is it suitable for comparison against the annual PM2.5?	N/A			
Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

North Long Beach (Long Beach)
Site Photos

Looking North from the probe.

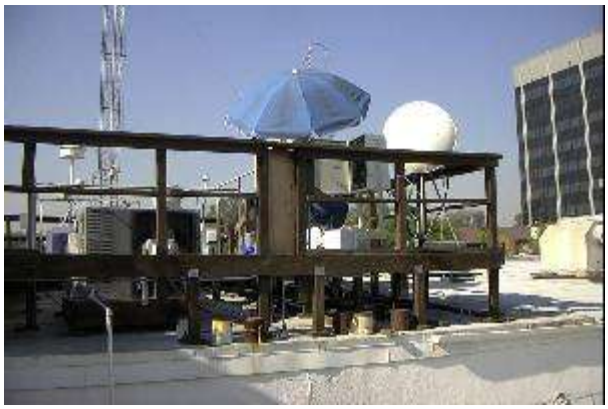
Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

North Long Beach (Long Beach)
Site Photos (Cont.)

Looking at the probe from the North.



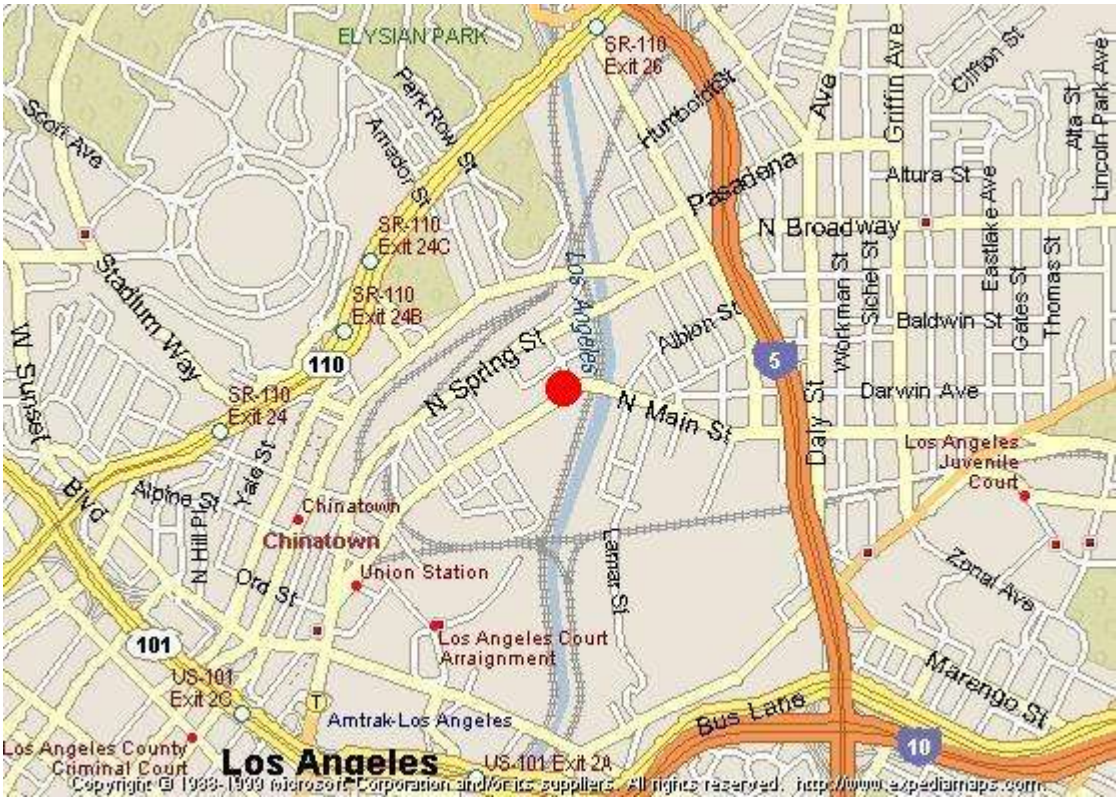
Looking at the probe from the East.

Looking at the probe from the South.

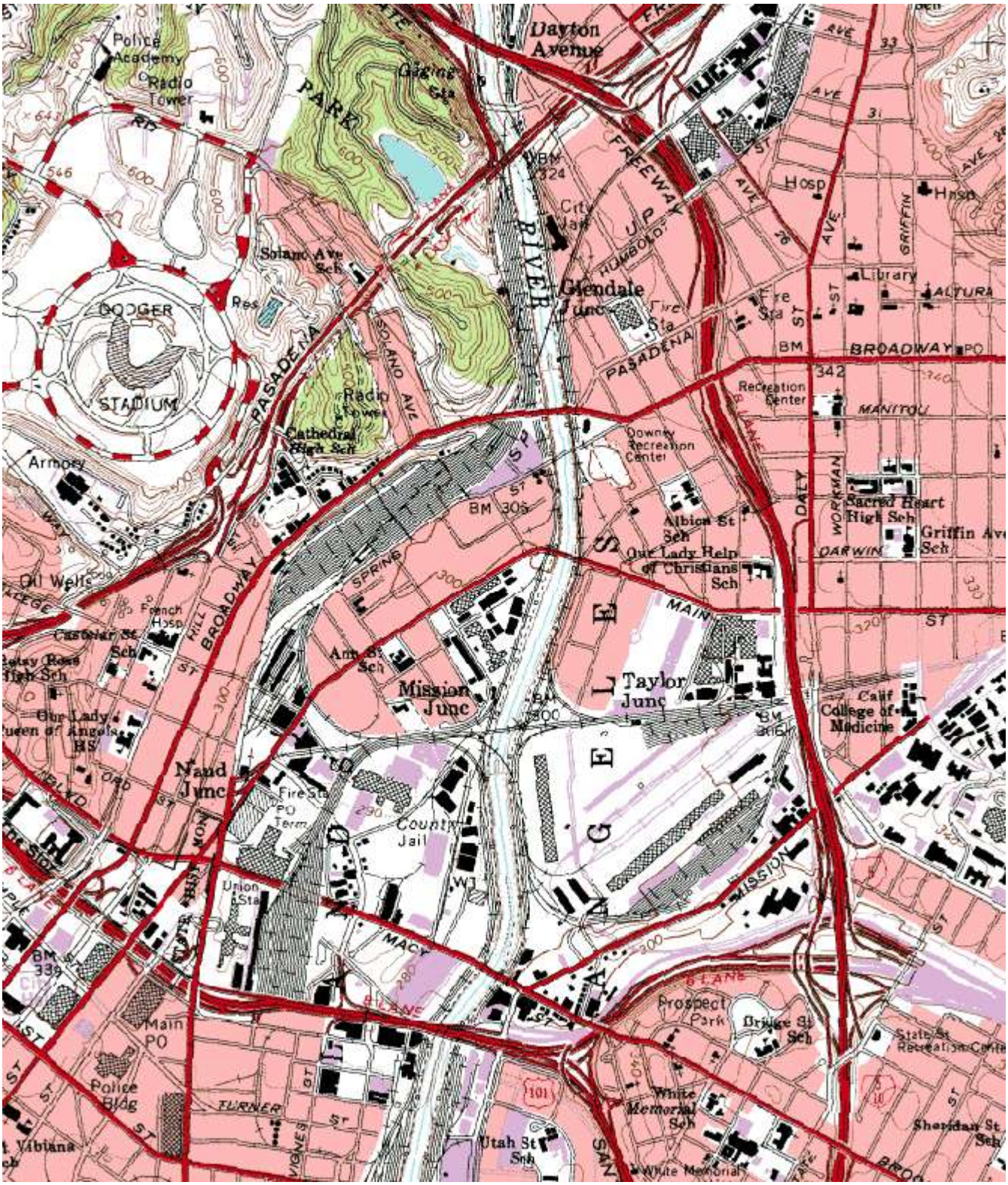
Looking at the probe from the West.

South Coast AQMD
Site Survey Report for Los Angeles (Central)-North Main Street

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060371103	70087	09/79	South Coast AQMD (061)		
Site Address	**County**	**Air Basin**	**Latitude**	**Longitude**	**Elevation**
1630 North Main Street Los Angeles, CA 90012	Los Angeles	South Coast	34° 03' 59"	-118° 13' 36"	89


Police Academy
Radio Tower
PARK
Dayton Avenue
Gaging Sta
FREEWAY
RIVER
Glendale Junc
Fire Sta
Hosp
Library
GLENDALE
BROADWAY
PASADENA
Recreation Center
MANITOU
DODGER STADIUM
Solano Ave Sch
Res
Radio Tower
SOLANO AVE
Cathedral High Sch
Armory
Downey Recreation Center
Albion St Sch
Our Lady Help of Christians Sch
Sacred Heart High Sch
Griffin Ave Sch
DARWIN
DALY
WORKMAN
Oil Wells
French Hospital
Castelar St Sch
Am St Sch
Mission Junc
Taylor Junc
Calif College of Medicine
Our Lady Queen of Angels HS
Naud Junc
Fire Sta
PO Term
County Jail
Union Sta
MACY
MISSION
Prospect Park
Bridge St Sch
State St Recreation Center
Main PO
Police Bldg
TURNER
White Memorial Sch
Utah St Sch
Sheridan St Sch
Vibiana
SPRING
MAIN
BROADWAY
HILL

Site Survey Report

Siting Information

Site Name: Los Angeles-North Main Street	Date: 4/21/10	State Code: 70087	AIRS Number: 060371103
Address: 1630 North Main St Los Angeles, CA 90012	Latitude: 34° 03' 59"	Longitude: 118° 13' 36"	Elevation (m): 89
	Senior AQIS: Albert Dietrich	Site Technician: Robert Wimmer	Site Phone: (323) 225-0178
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 51 - 71 m	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 15276	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Los Angeles-North Main Street			
AQS ID (AIRS #)	060371103			
GIS coordinates	Latitude: 34° 03’ 59” Longitude: 118° 13’ 36”			
Location	DWP General Warehouse Building			
Address	1630 North Main Street, Los Angeles, CA 90012			
County	Los Angeles			
Dist. to road	51 - 71 meters			
Traffic count	15276 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles, Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	Sulfur Dioxide
Monitor obj	Population Exposure	Highest Concentration	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba CO-360	42i	API/Teledyne 400E	Thermo 43i-TLE
Serial #	H000FXCU	CM 08360037	520-S	0831832126
Property #	E000360	16730	N/A	16746
Last Calibration Date	02/04/10	3/16/10	02/17/10	02/05/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Pulsed fluorescence
Start date	09/79	09/79	09/79	09/79
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	12.3	12.3	12.3	12.3
Distance from supporting structure	2.0	2.0	2.0	2.0
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Spacing from minor sources	45	45	45	45
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	7.2	7.6	8.1	9.5
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A

Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly

Pollutant	PM10-SSI – A	PM10-SSI (Natts) – B	TSP (Lead) – B	TSP (Lead) – A
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	T300-310	Tisch 300-310	Tisch 300-310	Tisch 300-310
Serial #	0516	0432	0568	0567
Property #	4935	50461	1573	4967
Last Calibration Date	3/4/10	02/10/10	3/4/10	3/4/10
Analysis method	Gravimetric	Gravimetric	Inductively Coupled Argon Plasma-Mass Spectrometry	Inductively Coupled Argon Plasma-Mass Spectrometry
Start date	09/79	01/07	09/79	09/79
Operation schedule	1:6	6 per Year	1:6	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	11.7	11.7	11.3	11.3
Distance from supporting structure	1.5	1.5	1.1	1.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	27	27	27	27
Distance between collocated monitors	2	2	2	2
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	Monthly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Pollutant	PM10 BAM	FEM BAM-PM2.5	SASS 2.5B	SASS 2.5A
Monitor obj	Population Oriented	Highest Concentration	Highest Concentration	Highest Concentration
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Andersen PM10 BAM	MetOne BAM 1020	MetOne SASS	MetOne SASS
Serial #	97	F8025	D8051	C4158
Property #	10590	164836 (USC)	E000289	E000223
Last Calibration Date	10/16/09	09/16/09	2/4/10	02/04/10
Analysis method	N/A	N/A	Gravimetric	Gravimetric
Start date	05/01/03	12/04/08	12/10/08	02/07
Operation schedule	1:1	1:1	1:6	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	12.0	12.8	12.0	12.0
Distance from supporting structure	1.8	2.6	1.8	1.8
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	51	51	51	51
Distance between collocated monitors	2	2	2	2
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	Bi-Weekly	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Pollutant	SASS PM2.5 (EPA STN)	PM2.5 RAAS	PM2.5 RAAS	Xontecc 910A (A) (NATTS)
Monitor obj	Highest Concentration	Highest Concentration	Highest Concentration	Population exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	MetOne SASS	Andersen RAAS 2.5	Andersen RAAS 2.5	Xontech 910A
Serial #	A6186	404	347	4687
Property #	N/A	E000023	E000006	E000173
Last Calibration Date	02/03/10	07/15/09	04/16/09	11/19/09
Analysis method	EPA STN	Gravimetric	Gravimetric	TO-15 NATTS
Start date	03/07/07	01/99	01/99	01/07
Operation schedule	1:6	1:1	1:6	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	12.0	12.1	12.1	12.6
Distance from supporting structure	1.8	1.9	1.9	2.3
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	52	52	52	52
Distance between collocated monitors	2	2	2	2
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	SS
Residence time	N/A	N/A	N/A	5.7 / 2.7
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	Yes	N/A

Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Pollutant	Xontech 910A (B) (NATTS)	Xontech 920 (NATTS)	Xontech 920 (NATTS)	PUF (NATTS)
Monitor obj	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Xontech 910A	Xontech 920	Xontech 920	Tisch Puf
Serial #	3634	146	156	007
Property #	14392	E000294	E000292	50493
Last Calibration Date	11/19/09	02/18/10	02/18/10	11/12/09
Analysis method	TO-15 NATTS	TO-15 NATTS	TO-15 NATTS	TO-15 NATTS
Start date	01/07	01/07	01/07	11/19/04
Operation schedule	6 / Year	1:6	6 / Year	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	12.6	11.5	11.5	11.3
Distance from supporting structure	2.3	1.3	1.3	1.1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	52	52	52	52
Distance between collocated monitors	2	2	2	2
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	SS	N/A	N/A	N/A
Residence time	2.6	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No

Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Pollutant	ARB Toxics	ARB Toxics	URG 2.5 (EPA STN)	
Monitor obj	Population Exposure	Population Exposure	Population Exposure	
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	
Sampling method	RM Environmental Systems Inc. 924	RM Environmental Systems Inc. 910PC	URG 3000N	
Serial #	9241002	6101	3N-B0143	
Property #	20021009 (ARB)	20062214 (ARB)	N/A	
Last Calibration Date	10/05/09	10/05/09	4/14/10	
Analysis method	Analyzed by CARB lab	Analyzed by CARB lab	STN Lab	
Start date	08/07	08/07	03/07/07	
Operation schedule	1:12	1:12	1:6	
Sampling season	All Year	All Year	All Year	
Probe height	12.18	12.6	12.3	
Distance from supporting structure	1.9	2.3	2.0	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance from minor sources	52	52	52	
Distance between collocated monitors	N/A	N/A	2	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	Teflon	N/A	
Residence time	N/A	N/A	N/A	

Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	

Los Angeles-North Main Street
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Los Angeles-North Main Street
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

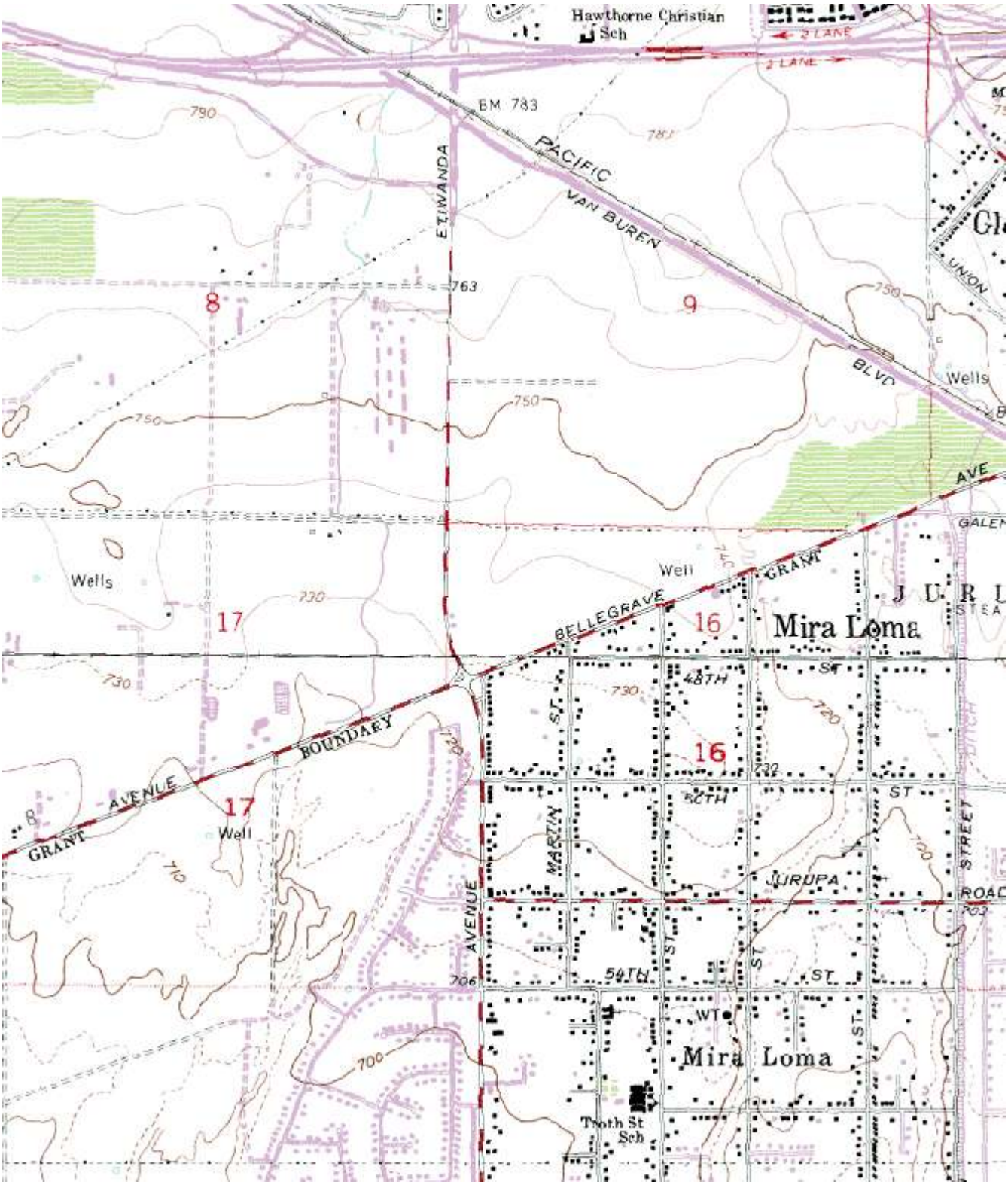
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Mira Loma (Jurupa)

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650004	33163	10/93	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
10551 Bellegrave Ave Mira Loma, CA 91752	Riverside	South Coast	34° 0' 07"	117° 31' 21"	225


Hawthorne Christian Sch
2 LANE
2 LANE
BM 783
PACIFIC
VAN BUREN
ETIWANDA
790
763
750
8
9
BLVD
Wells
UNION
AVE
GALEN
Wells
730
17
Well
GRANT
BELLEGRAVE
16
Mira Loma
48TH
ST
730
720
BOUNDARY
AVENUE
GRANT
8
17
Well
710
16
52TH
ST
MARTIN
JURUPA
STREET
ROAD
AVENUE
706
54TH
ST
ST
ST
WT
700
Mira Loma
Tenth St Sch

Site Survey Report

Siting Information

Site Name: Mira Loma (Jurupa)	Date: 4/21/10	State Code: 33163	AIRS Number: None
Address: 10551 Bellegrave Ave Mira Loma, CA 91752	Latitude: 34° 0' 07"	Longitude: 117° 31' 21"	Elevation (m): 225
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: (951) 360-6738
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 165 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 25717	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: No	Description: N/A	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction:	Ground Cover: Asphalt/Dirt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Mira Loma			
AQS ID (AIRS #)	None			
GIS coordinates	Latitude: 34° 0' 07" Longitude: 117° 31' 21"			
Location	Jurupa Valley High School			
Address	10551 Bellegrave Ave, Mira Loma, CA 91752			
County	Riverside			
Dist. to road	165 meters			
Traffic count	25717 veh/day			
Groundcover	Asphalt/Dirt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10-SSI
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented / Site Comparison
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	API 200	Thermo 49i	TISCH
Serial #	41346760054	261	116256	0206
Property #	16507	E000218	N/A	4962
Last Calibration Date	01/19/10	01/20/10	2/18/10	3/26/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	10/93	10/93	10/93	11/2005
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.0	5.0	5.0	2.6
Distance from supporting structure	1.8	1.8	1.8	1.6
Distance from obstructions on roof	2	2	2	2
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	No	No	No	No
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	10.3	10.3	9.9	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes

Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	TEOM-PM10			
Monitor obj	Highest Concentration			
Spatial scale	Neighborhood Scale			
Sampling method	R&P 1400			
Serial #	20013779			
Property #	ARB 208779505			
Last Calibration Date	3/3/10			
Analysis method	TEOM			
Start date	10/93			
Operation schedule	1:1			
Sampling season	All Year			
Probe height	5.0			
Distance from supporting structure	1.8			
Distance from obstructions on roof	2			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	No			
Probe material	N/A			
Residence time	N/A			

Will there be changes within the next 18 months?	Yes			
Is it suitable for comparison against the annual PM2.5?	N/A			
Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	Monthly			
Frequency of one-point QC check (gaseous)	N/A			

Mira Loma
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Mira Loma
Site Photos (Cont.)

Looking at the probe from the North.

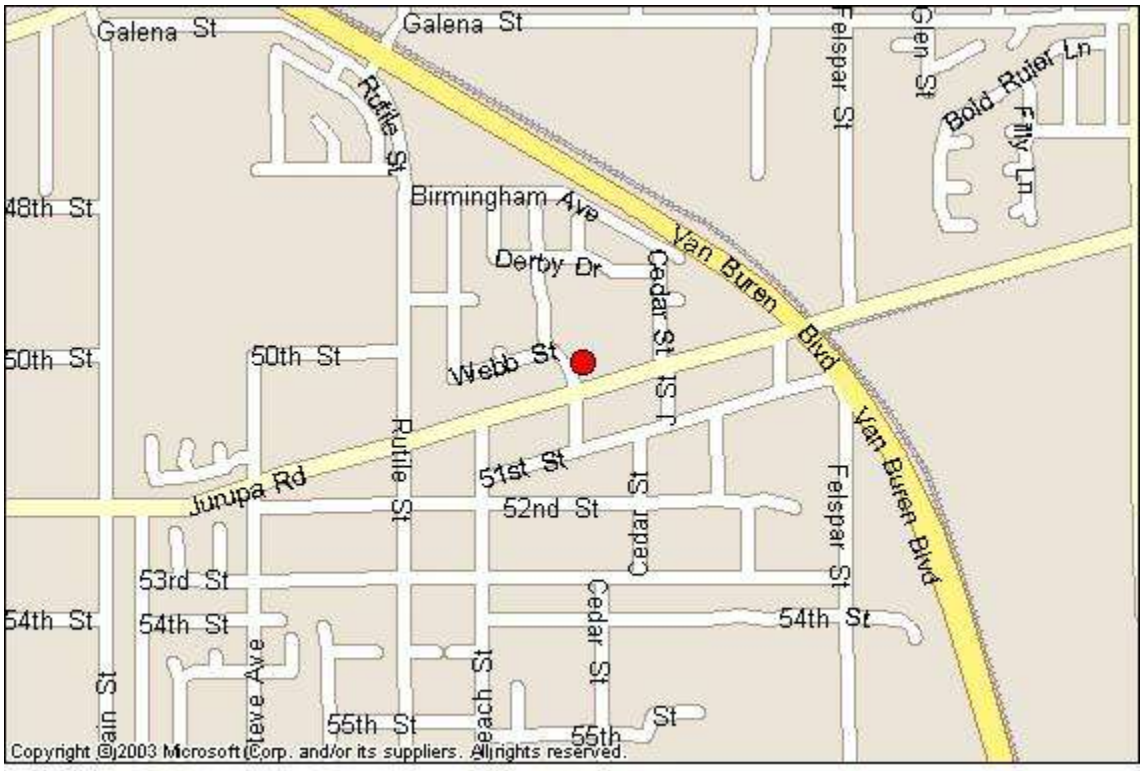
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

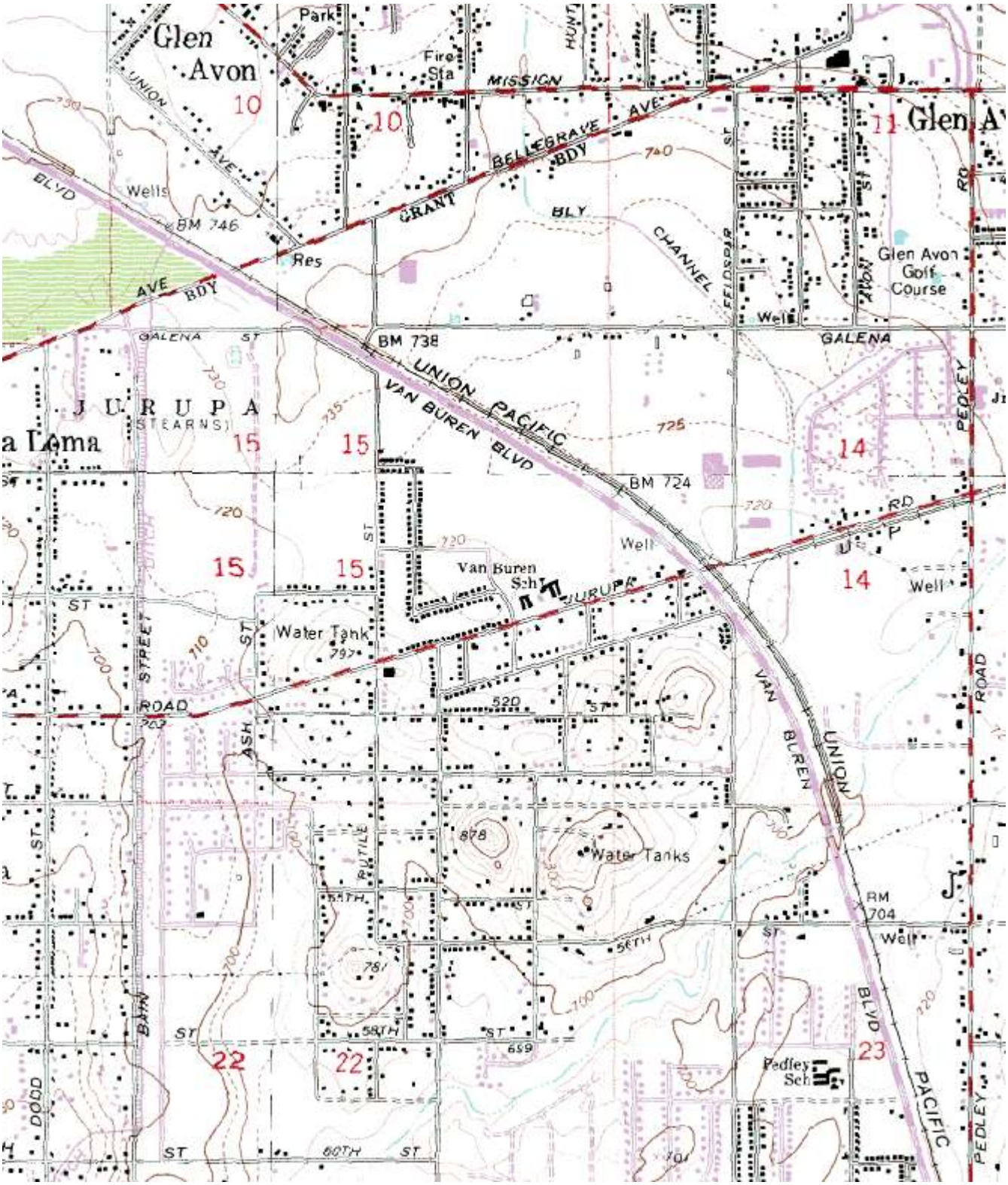
Quality Assurance
Site Survey Report for Mira Loma (Van Buren)

Last updated April, 2009



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060658005	33165	11/05	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
5130 Poinsettia Pl Riverside, CA 92509	Riverside	South Coast	33° 59' 46"	117° 29' 32"	220


Glen Avon
Park
Fire Sta
MISSION
HUNT
UNION AVE
BELLEGRAVE AVE
BLVD
Wells
BM 746
Res
GRANT
BLY
CHANNEL
Glen Avon Golf Course
Well
GALENA
AVE
BDY
BM 738
UNION PACIFIC
VAN BUREN BLVD
JURUPA
(STEARNS)
a Loma
BM 724
Van Buren Sch
Water Tank
STREET
ROAD
ASH
Water Tanks
878
RM 704
PEDLEY
Pedley Sch
PACIFIC
DODD
60TH
10
11
14
15
22
23

Site Survey Report

Siting Information

Site Name: Mira Loma (Van Buren)	Date: 4/21/10	State Code: 33165	AIRS Number: 060658005
Address: 5130 Poinsettia Pl Riverside, CA 92509	Latitude: 33° 59' 46"	Longitude: 117° 29' 32"	Elevation (m): 220
	Senior AQIS: Keith Brown	Site Technician: Richard Trzcinski	Site Phone: (951) 381-4773
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 14-15 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 1000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast	Autocalibrator Type: Environics 9100
Shadowing: No	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Mira Loma (Van Buren)			
AQS ID (AIRS #)	060658005			
GIS coordinates	Latitude: 33° 59’ 46” Longitude: 117° 29’ 32”			
Location	Van Buren Elementary School			
Address	5130 Poinsettia Place, Riverside CA			
County	Riverside			
Dist. to road	14 – 15 meters			
Traffic count	< 1000 veh/day			
Groundcover	Gravel			
Representative Area	40140-Riverside, San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10-SSI
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Highest Concentration
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	API 200A	API/Teledyne 400	Andersen 1200
Serial #	41626140013	1613	192	50953
Property #	0016512	E000081	0016586	N/A
Last Calibration Date	4/6/10	4/6/10	2/25/10	4/1/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	11/09/05	11/09/05	11/09/05	11/09/05
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.4	4.4	4.4	2.6
Distance from supporting structure	1.8	1.8	1.8	1.6
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	36	36	36	36
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	SS
Residence time	13.9	14.9	14.5	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	N/A	N/A	N/A

Pollutant	BAM-PM2.5 (FEM)	Andersen PM2.5 RAAS	BAM – PM10	
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	
Sampling method	MetOne BAM1020	FRM PM2.5 RAAS	MetOne BAM 1020	
Serial #	H3184	2.5-300-00434		
Property #	16718	N/A		
Last Calibration Date	3/8/10	8/25/10	3/8/10	
Analysis method	Beta attenuation	Gravimetric	Beta Attenuation	
Start date	11/09/05	12/07/05	3/8/10	
Operation schedule	1:1	1:3	1:1	
Sampling season	All Year	All Year	All Year	
Probe height	4.5	2.9	4.5	
Distance from supporting structure	1.9	1.9	1.9	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	N/A	N/A	N/A	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	N/A	N/A	
Residence time	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	No	Yes	No	
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	N/A	

Frequency of flow rate verification for automated PM analyzers audit	Bi-Weekly	N/A	Monthly	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	

Mira Loma (Van Buren)
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Mira Loma (Van Buren)
Site Photos (Cont.)

Looking at the probe from the North.

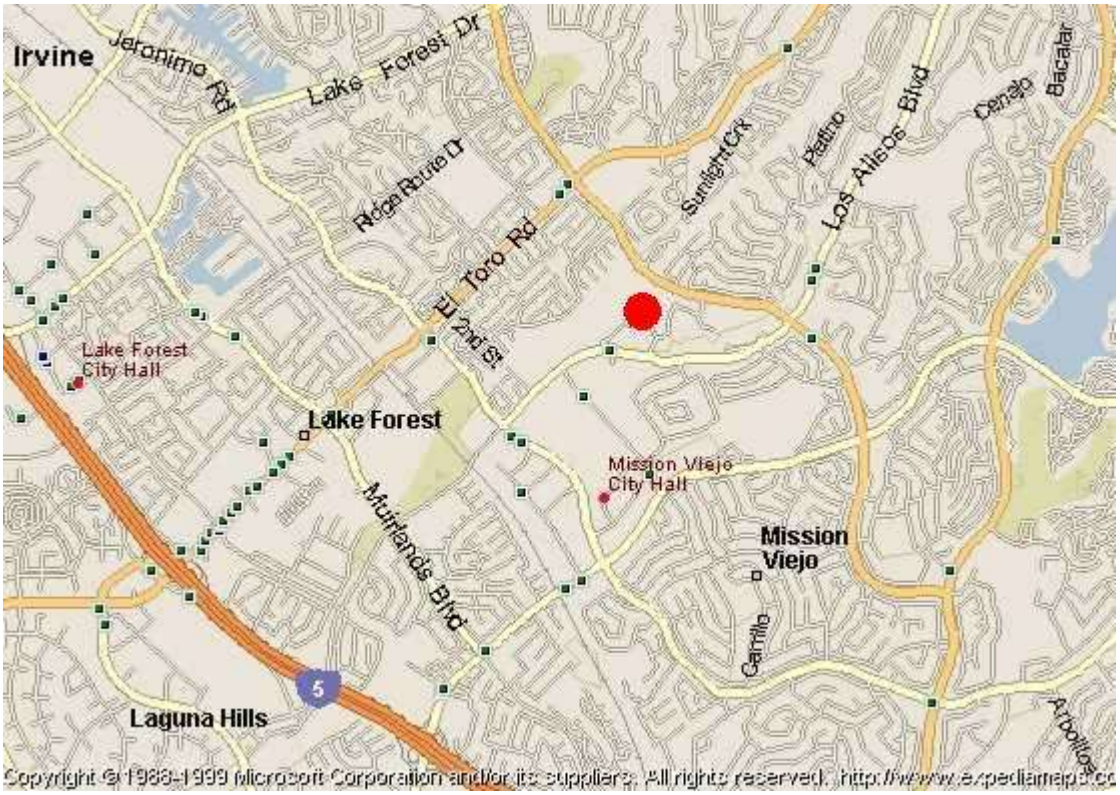
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

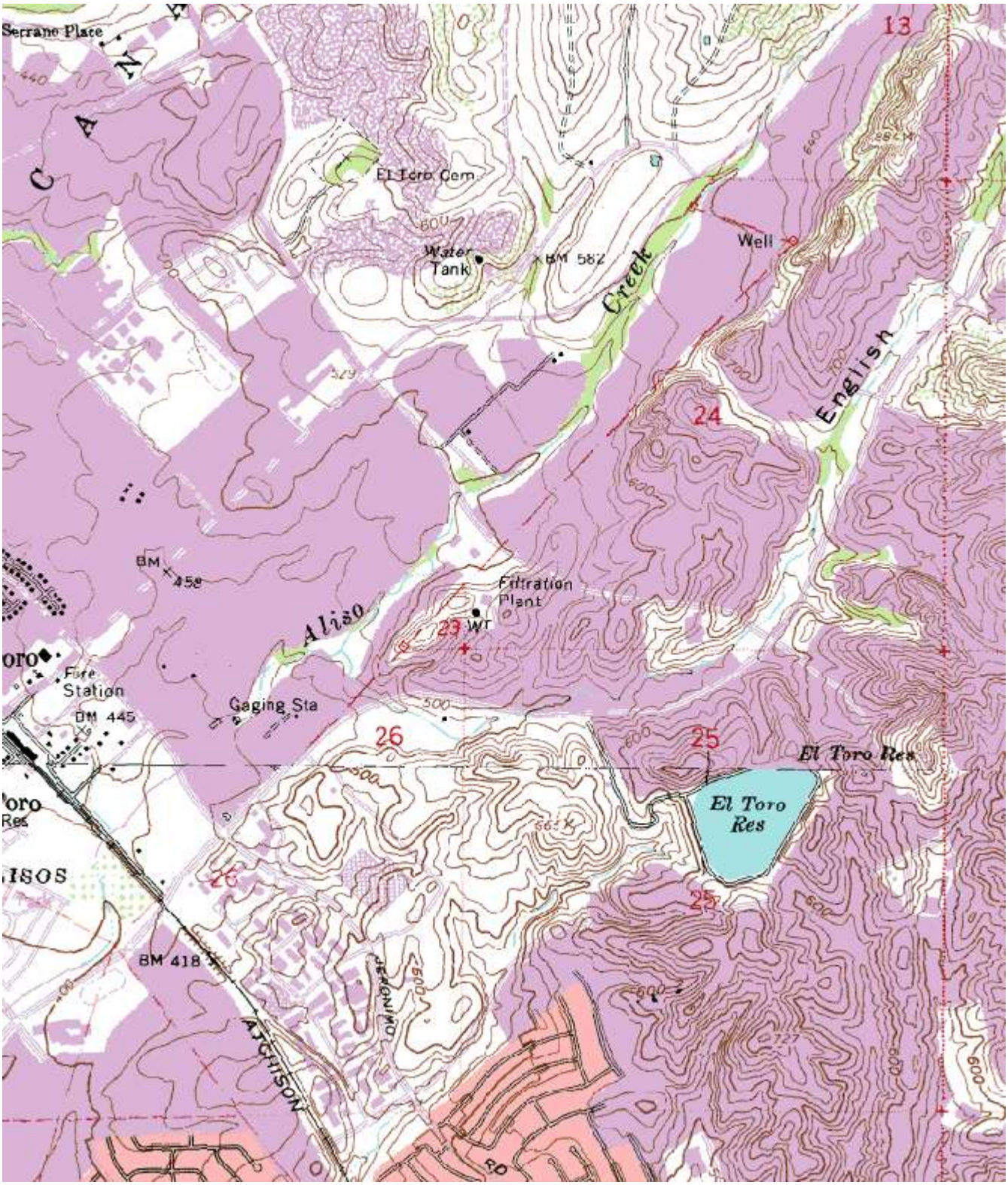
Quality Assurance
Site Survey Report for Mission Viejo

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060592022	30002	06/99	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
26081 Via Pera Mission Viejo, CA 92691	Orange	South Coast	33° 37' 89"	117° 40' 33"	168


Serrano Place
CANYON
El Toro Cem
Water Tank
BM 582
Well
Creek
English
13
24
BM 458
Filtration Plant
WT
Aliso
23
Fire Station
BM 445
Gaging Sta
26
25
El Toro Res
El Toro Res
ISOS
BM 418
ATCHISON
JERONIMO

Site Survey Report

Siting Information

Site Name: Mission Viejo	Date: 4/21/10	State Code: 30002	AIRS Number: 060592022
Address: 26081 Via Pera Mission Viejo, CA 92691	Latitude: 33° 37' 89"	Longitude: 117° 40' 33"	Elevation (m): 168
	Senior AQIS: Albert Dietrich	Site Technician: Tom Mac	Site Phone: (949) 768-8111
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 138 – 175 m	Region: Hilly	Probe Last Cleaned: 02/04/10
	Count (Veh/Day): < 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Mission Viejo			
AQS ID (AIRS #)	060592022			
GIS coordinates	Latitude: 33° 37’ 48” Longitude: 117° 40’ 33”			
Location	El Toro Water District Filter Plant			
Address	26081 Via Pera, Mission Viejo, CA 92691			
County	Orange			
Dist. to road	138 - 175 meters			
Traffic count	< 2000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Ozone	PM10-SSI	PM2.5RAAS
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA 360	API/400E	Sierra Andersen 1200	Andersen 300 RAAS 2.5
Serial #	577274014	527-S	1592	361
Property #	16478	N/A	3981	E000019
Last Calibration Date	3/24/10	3/19/10	12/30/09	12/23/09
Analysis method	Non dispersive Infra red	UV Photometric	Gravimetric	Gravimetric
Start date	06/15/99	06/15/99	06/15/99	06/15/99
Operation schedule	1:1	1:1	1:6	1:3
Sampling season	All Year	All Year	All Year	All Year
Probe height	6.7	6.7	3.4	3.8
Distance from supporting structure	2.4	2.4	2.4	2.9
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	4.8	4.8
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	270°	270°
Probe material	Teflon	Teflon	N/A	N/A
Residence time	11.1	11.4	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	Yes

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	N/A	N/A

Mission Viejo
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

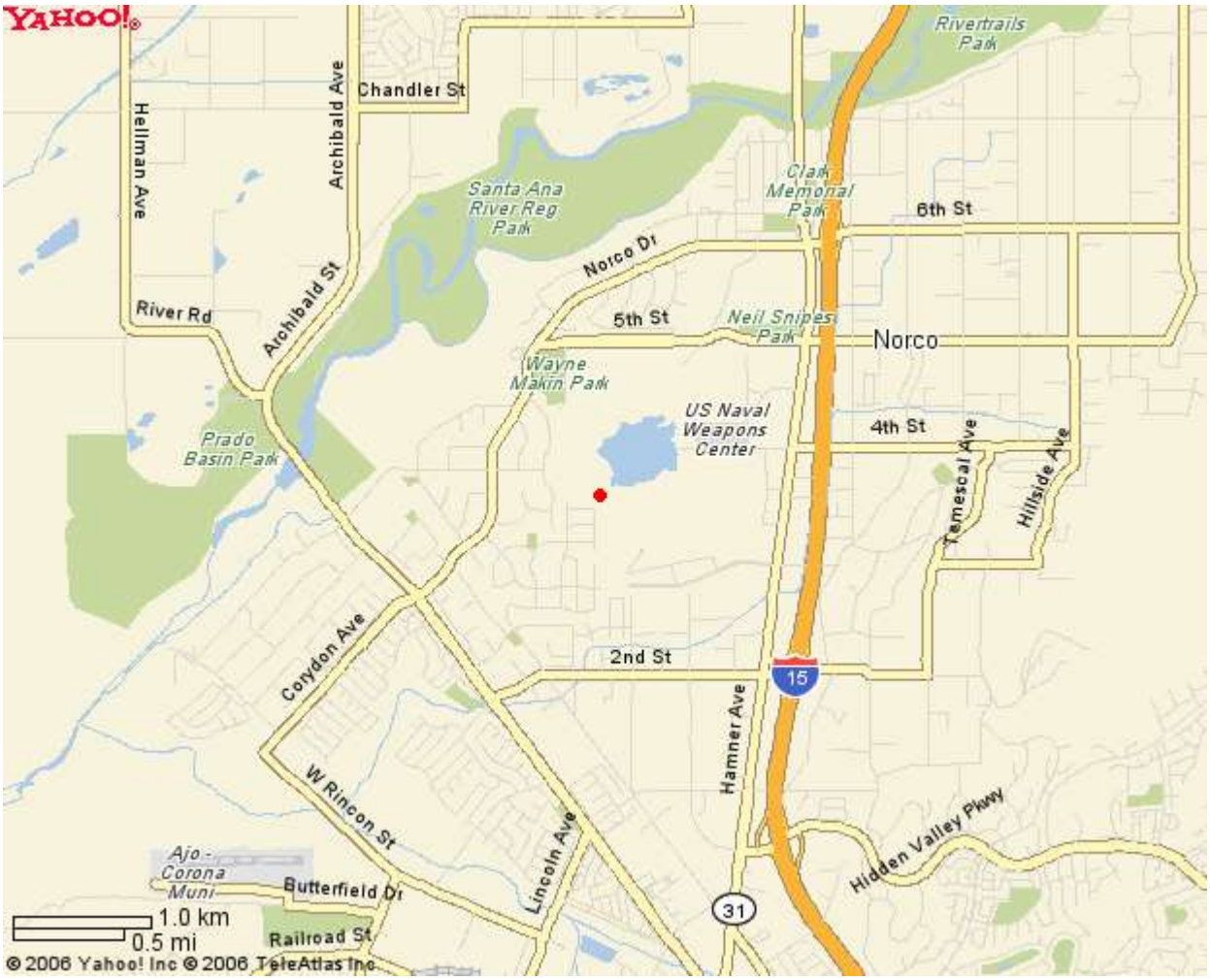
Looking West from the probe.

Mission Viejo
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

Quality Assurance
Site Survey Report for Norco

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650003	33155	12/80	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
USNFAC Norco Norco, CA 92860	Riverside	South Coast	33° 55’ 17”	117° 34’ 20”	197

Site Survey Report

Siting Information

Site Name: Norco	Date: 03/02/10	State Code: 33155	AIRS Number: 06065003
Address: USNFAC Norco Norco, CA 92860	Latitude: 33° 55' 17"	Longitude: 117° 34' 20"	Elevation (m): 197
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: No	Description: Military res.	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance: 25	Region: Rolling Hills	Probe Last Cleaned Date: N/A
	Count (Veh/Day): < 500	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: None	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: N/A	Urbanization: Rural / Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: weeds	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Norco			
AQS ID (AIRS #)	06065003			
GIS coordinates	Latitude: 33° 55’ 17” Longitude: 117° 55’ 20”			
Location	Storage Yard			
Address	USNFAC Norco, Norco, CA 92860			
County	Riverside			
Dist. to road	25			
Traffic count	< 500			
Groundcover	Weeds			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	PM10-SSI			
Monitor obj	Population Oriented			
Spatial scale	Neighborhood Scale			
Sampling method	Andersen SSI			
Serial #	53055			
Property #	10378/ (1570)			
Last Calibration Date	01/12/10			
Analysis method	Gravimetric			
Start date	12/80			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			

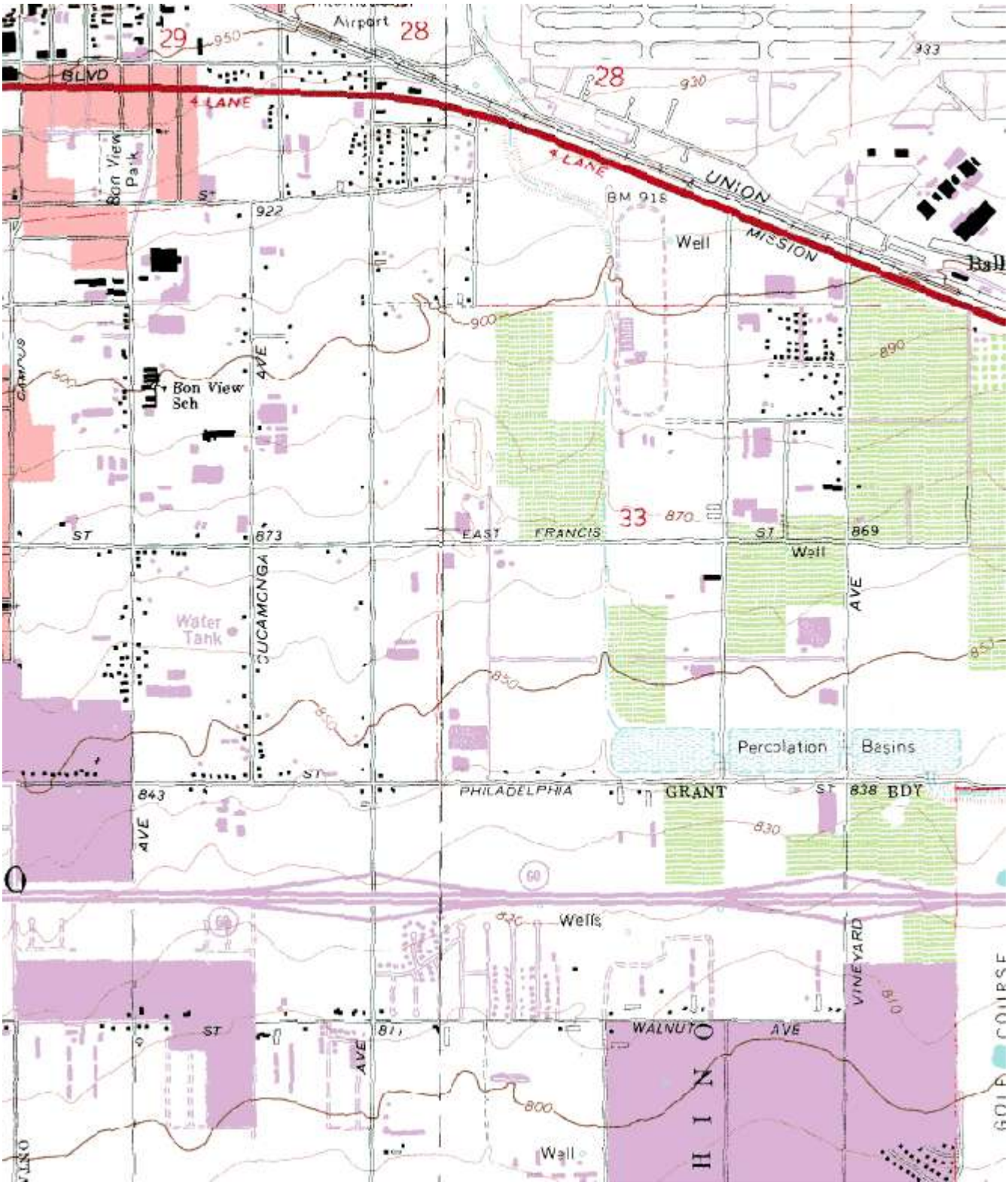
Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Quality Assurance
Site Survey Report for Ontario-Fire Station

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060710025	36025	01/99	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
1408 Francis St Ontario, CA 91761	San Bernardino	South Coast	34° 02' 22"	117° 37' 24"	201


Airport
28
29
950
BLVD
4 LANE
Bon View Park
ST
922
28
930
933
4 LANE
UNION
MISSION
BM 918
Well
900
890
CAMPUS
Bon View Sch
AVE
ST
873
EAST
FRANCIS
33
870
ST
869
Well
AVE
Water Tank
CUCAMONGA
850
Percolation
Basins
ST
843
PHILADELPHIA
GRANT
ST
838 BDY
AVE
830
60
Wells
VINEYARD
ST
811
AVE
WALNUT
AVE
810
800
Well
HINO

Site Survey Report

Siting Information

Site Name: Ontario-Fire Station	Date: 4/21/10	State Code: 36025	AIRS Number: 060710025
Address: 1408 Francis St Ontario, CA 91761	Latitude: 34° 02' 22"	Longitude: 117° 37' 24"	Elevation (m): 201
	Senior AQIS: Keith Brown	Site Technician: Lilia Enriquez	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: NE
Controlled: No	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 43 meters	Region: Level	Probe Last Cleaned: N/A
	Count (Veh/Day): 2000	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Fire Station	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 96 meters	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Ontario-Fire Station			
AQS ID (AIRS #)	060710025			
GIS coordinates	Latitude: 34° 02’ 22” Longitude: 117° 37’ 24”			
Location	San Bernardino County Fire Training Facility			
Address	1408 Francis St, Ontario, CA 91761			
County	San Bernardino			
Dist. to road	43 meters			
Traffic count	2000 veh/day			
Groundcover	Gravel/Grass			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	PM10-SSI	PM10-SSI	PM2.5	PM10 – SSI
Monitor obj	Highest Concentration	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Tisch SSI	Sierra Andersen 1200	Sierra Andersen RAAS PM2.5	Graseby GMW
Serial #	1532B	4994A	00119	1557-A
Property #	B Unit	C unit	E000007	NFA 54247 A Unit
Last Calibration Date	11/18/09	11/18/08	11/18/09	11/18/09
Analysis method	Gravimetric	Gravimetric	Gravimetric	Gravimetric
Start date	01/03/99	01/03/99	01/03/99	01/03/99
Operation schedule	1:6		1:3	1:6
Sampling season	All Year	All Year	All Year	
Probe height	5.9	5.9	4.8	5.9
Distance from supporting structure	1.6	1.6	1.6	1.6
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees				
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	2.0	2.0	N/A	2.0
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	Yes	N/A

Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Ontario-Fire Station
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Ontario-Fire Station
Site Photos (Cont.)

Looking at the probe from the North.

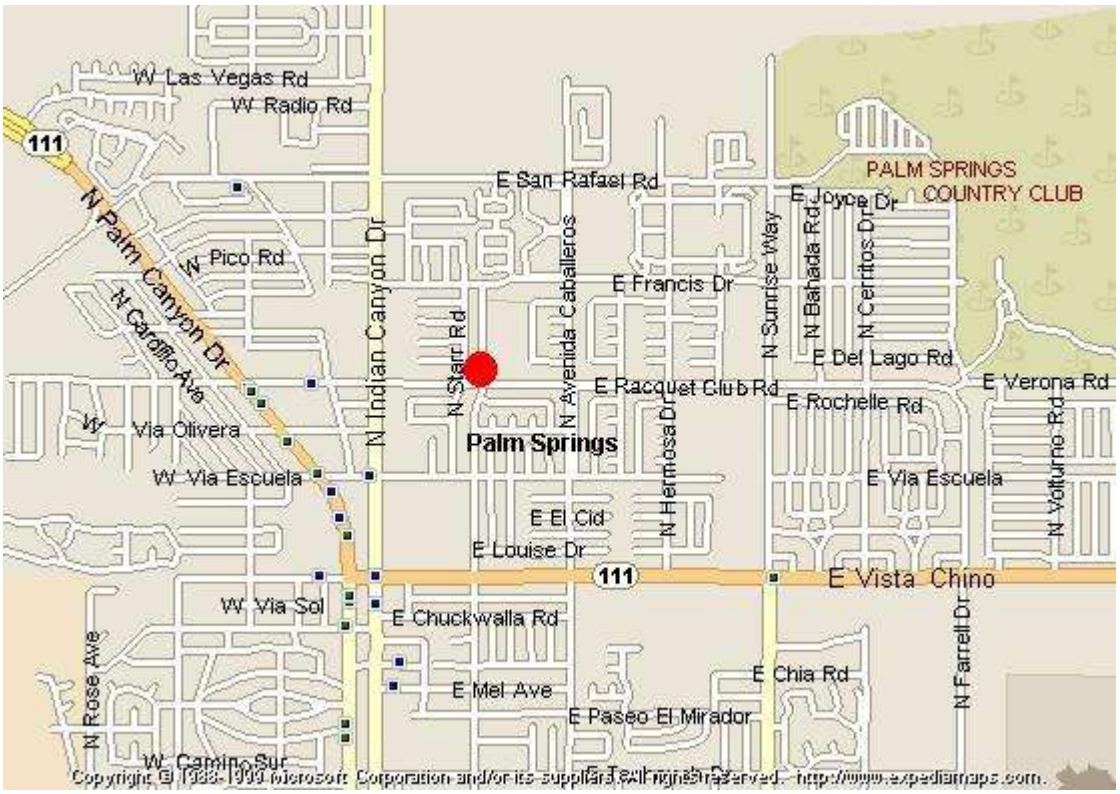
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

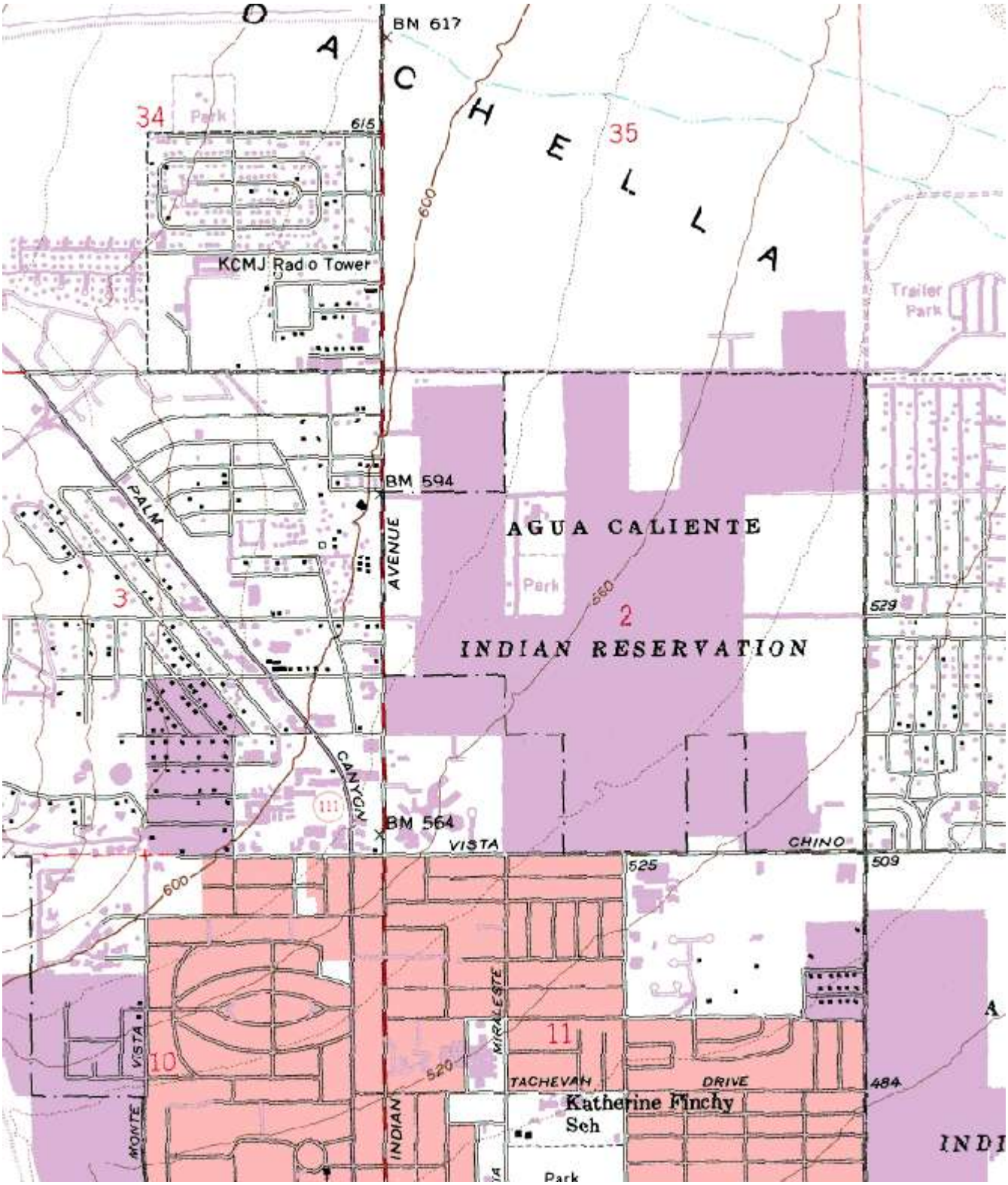
Quality Assurance
Site Survey Report for Palm Springs-Fire Station

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060655001	33137	04/71	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
590 E Racquet Club Ave Palm Springs, CA 92262	Riverside	Salton Sea	33° 51' 09"	116° 32' 27"	174


BM 617
34
Park
615
35
600
KCMJ Radio Tower
Trailer Park
BM 594
PALM
AVENUE
AGUA CALIENTE
Park
560
3
2
529
INDIAN RESERVATION
CANYON
111
BM 564
VISTA
CHINO
525
509
600
MIRALESTE
11
10
VISTA
520
TACHEVAH
DRIVE
484
MONTE
INDIAN
Katherine Finchy
Sch
Park

Site Survey Report

Siting Information

Site Name: Palm Springs-Fire Station	Date: 4/21/10	State Code: 33137	AIRS Number: 060655001
Address: 590 East Racquet Club Ave Palm Springs, CA 92262	Latitude: 33° 51' 09"	Longitude: 116° 32' 27"	Elevation (m): 174
	Senior Tech: Keith Brown	Site Technician: Jeff Baerenwald	Site Phone: (760) 327-3004
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: Yes	Description: Suburban	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 13 - 17 meters	Region: Valley	Probe Last Cleaned: 4/10
	Count (Veh/Day): 5000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Palm Springs-Fire Station			
AQS ID (AIRS #)	060655001			
GIS coordinates	Latitude: 33° 51’ 09” Longitude: 116° 32’ 27”			
Location	Fire Station			
Address	590 East Racquet Club Ave., Palm Springs, CA 92262			
County	Riverside			
Dist. to road	13 - 17 meters			
Traffic count	5,000 veh/day			
Groundcover	Concrete			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10 SSI
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	Thermo 42 i	Teledyne 400E	GMW 2000
Serial #	41522310121	CM08360040	522-S	3771
Property #	16508	16740	N/A	4937
Last Calibration Date	03/24/10	12/24/09	12/01/09	02/04/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	4/71	4/71	4/71	4/71
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.0	5.0	5.0	2.46
Distance from supporting structure	2.0	2.0	2.0	1.5
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	22	22	22	19
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	8.3	9.5	9.3	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM	N/A	N/A	N/A	N/A

Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	PM10 TEOM	PM2.5		
Monitor obj	Population Oriented	REPRESENTATIVE CONCENTRATION		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	TEOM 1400A	Andersen 300		
Serial #	140AB263220607	422		
Property #	ED00340	N/A		
Last Calibration Date	3/24/10	3/5/10		
Analysis method	TEOM	Gravimetric		
Start date	06/02/09	12/26/99		
Operation schedule	1:1	1:3		
Sampling season	All Year	All Year		
Probe height	4.7	2.9		
Distance from supporting structure	1.7	1.9		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	19	19		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	N/A	SS		
Residence time	N/A	N/A		
Will there be changes within the next 18 months?	No	No		
Is it suitable for comparison against the annual PM2.5?	N/A	Yes		
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly		
Frequency of flow rate verification for automated PM	Monthly	N/A		
Frequency of one-point QC check (gaseous)	N/A	N/A		

Palm Springs-Fire Station
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Palm Springs-Fire Station
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

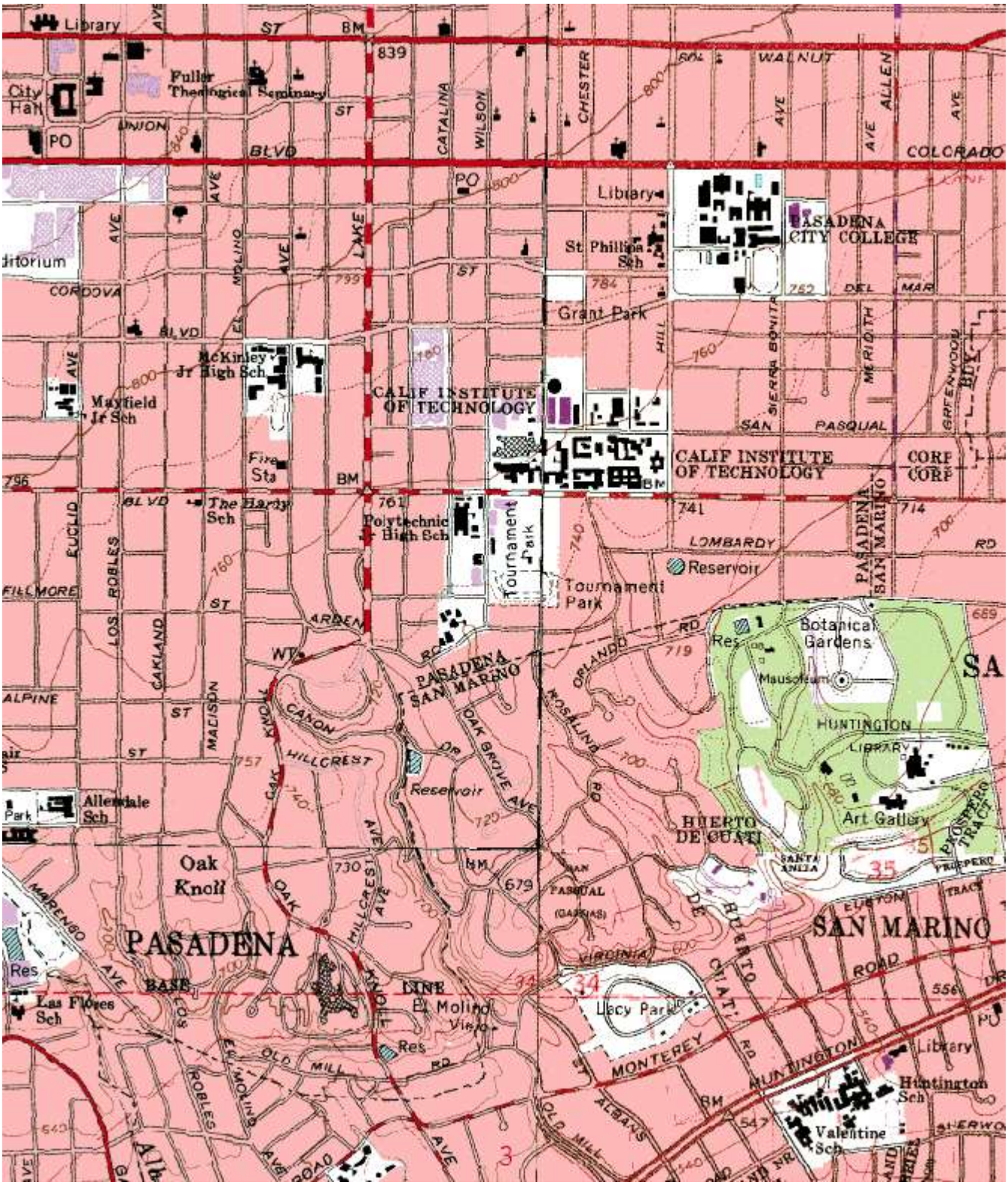
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Pasadena

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060372005	70088	04/82	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
752 S Wilson Ave Pasadena, CA 91702	Los Angeles	South Coast	34° 07' 57"	118° 07' 37"	226


Library
City Hall
PO
Fuller Theological Seminary
UNION
BLVD
CATALINA
WILSON
CHESTER
WALNUT
COLORADO
ALLEN
Library
PASADENA CITY COLLEGE
St Philips Sch
Grant Park
CORDOVA
McKinley Jr High Sch
Mayfield Jr Sch
CALIF INSTITUTE OF TECHNOLOGY
SIERRA BONITA
MERIDITH
SAN PASQUAL
Fire Sta
The Hardy Sch
Polytechnic Jr High Sch
Tournament Park
LOMBARDY
Reservoir
PASADENA SAN MARINO
EUCLID
LOS ROBLES
OAKLAND
MADISON
FILLMORE
ARDEN
ROSEMONT
ORLANDO
Botanical Gardens
Mausoleum
HUNTINGTON
LIBRARY
Art Gallery
ALPINE
CANON
OAK KNOLL
HILLCREST
OAK GROVE AVE
Reservoir
Allendale Sch
Oak Knoll
HUERTO DE CUATI
SAN MARINO
PASADENA
MARENGO
Las Flores Sch
BASE LINE
El Molino Viejo
Res
Lacy Park
VIRGINIA
MONTEREY
ROAD
Library
Huntington Sch
Valentine Sch
OLD MILL
ALBANS

Site Survey Report

Siting Information

Site Name: Pasadena	Date: 4/21/10	State Code: 70088	AIRS Number: 060372005
Address: 752 S Wilson Ave Pasadena, CA 91702	Latitude: 34° 07' 57"	Longitude: 118° 07' 37"	Elevation (m): 226
	Senior AQIS: Albert Dietrich	Site Technician: Robert Wimmer	Site Phone: (626) 792-4316
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 66 - 70 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): < 5000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Grass	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Pasadena			
AQS ID (AIRS #)	060372005			
GIS coordinates	Latitude: 34° 07’ 57” Longitude: 118° 07’ 37”			
Location	Cal Tech Campus – on Track in Trailer			
Address	752 S Wilson Ave, Pasadena, CA 91702			
County	Los Angeles			
Dist. to road	66 meters			
Traffic count	< 5000 veh/day			
Groundcover	Grass			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA, MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM2.5
Monitor obj	Population Oriented	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Middle Scale	Middle Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA 370	Thermo 42i	Teledyne 400E	Sierra Andersen RAAS PM2.5
Serial #	EWU6D0000	CM083620043	533-S	00360
Property #	E000359	16769	N/A	E000002
Last Calibration Date	3/18/10	3/18/10	3/16/10	08/20/09
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	4/82	4/82	4/82	4/82
Operation schedule	1:1	1:1	1:1	1:3
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.0	5.0	5.0	2.8
Distance from supporting structure	2.1	2.1	2.1	1.9
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	6	6	6	6
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.1	6.7	6.7	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	TSP SO4			
Monitor obj	Population Oriented			
Spatial scale	Neighborhood Scale			
Sampling method	GMW SSI			
Serial #				
Property #				
Last Calibration Date	1/27/10			
Analysis method	Gravimetric			
Start date	4/82			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.8			
Distance from supporting structure	1.9			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	6			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	Yes			
Is it suitable for comparison against the annual PM2.5?	Yes			
Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Pasadena
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Pasadena
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

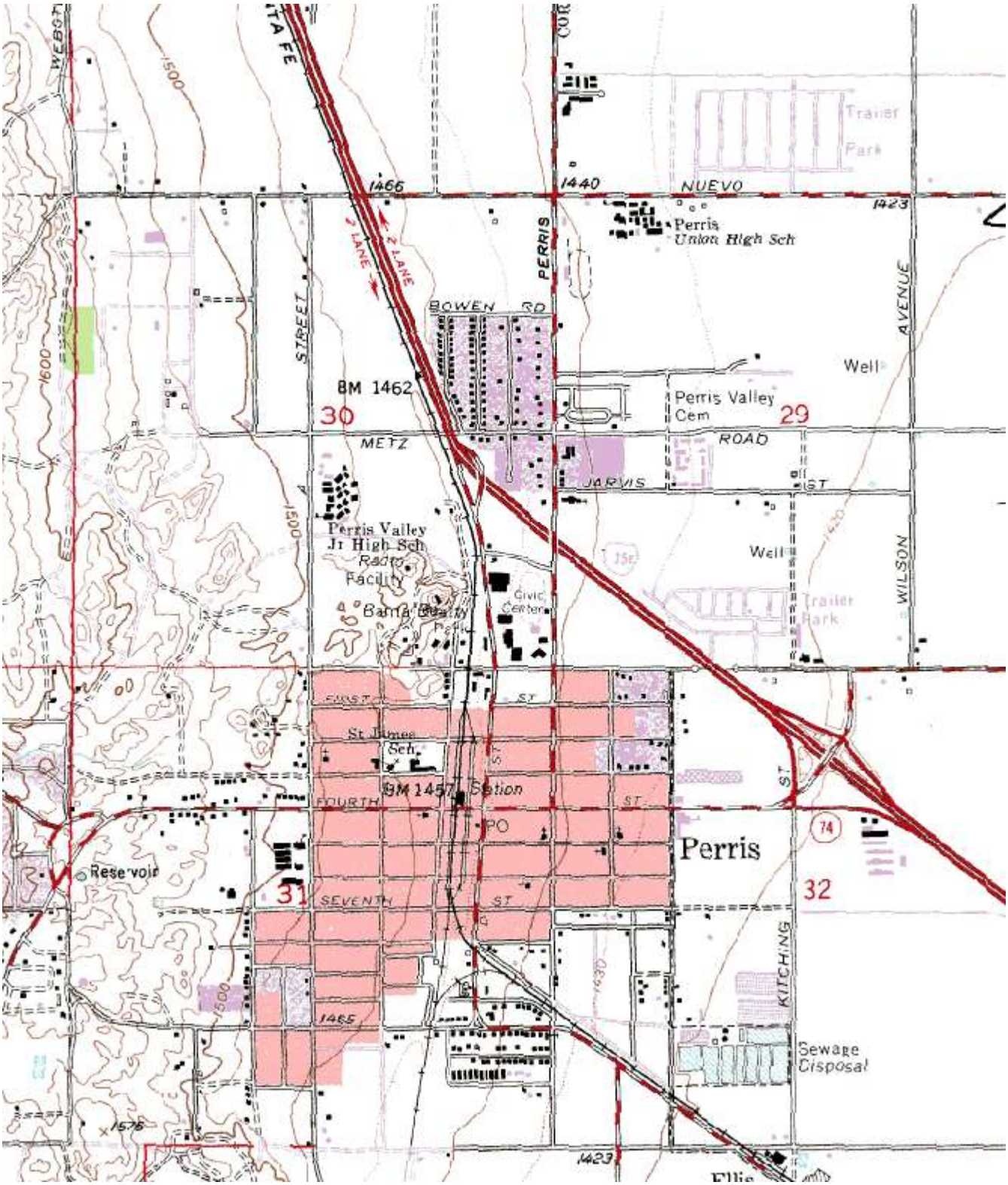
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Perris

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060656001	33149	05/73	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
237 ½ N D St Perris, CA 92570	Riverside	South Coast	33° 47' 20"	117° 13' 40"	442


WEBSTER
1500
SANTA FE
1466
1440
NUEVO
1423
Trailer Park
Perris Union High Sch
2 LANE
PERRIS
STREET
BOWEN RD
AVENUE
Well
BM 1462
30
Perris Valley Cem
29
METZ
ROAD
JARVIS
1600
1500
Perris Valley Jr High Sch
Radio Facility
Barn
Civic Center
Well
WILSON
Trailer Park
FIRST ST
St James Sch
BM 1457
Station
FOURTH ST
PO
Perris
74
Reservoir
31
SEVENTH ST
32
1465
KITCHING
Sewage Disposal
1576
1423
Ellis

Site Survey Report

Siting Information

Site Name: Perris	Date: 4/21/10	State Code: 33149	AIRS Number: 060656001
Address: 237 ½ N D St Perris, CA 92570	Latitude: 33° 47' 20"	Longitude: 117° 13' 40"	Elevation (m): 442
	Senior AQIS: Keith Brown	Site Technician: Twyla Miner	Site Phone: (951) 657-4745
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SE
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 74 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 39500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast ADMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Perris			
AQS ID (AIRS #)	060656001			
GIS coordinates	Latitude: 33° 47’ 20” Longitude: 117° 13’ 40”			
Location	Parking lot next to clinic			
Address	237 ½ N D St, Perris, CA 92570			
County	Riverside			
Dist. to road	74 meters			
Traffic count	39500 veh/day			
Groundcover	Asphalt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Ozone	PM10-SSI		
Monitor obj	Population Oriented	Population Oriented		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	Thermo 49i	Sierra Andersen 1200		
Serial #	116257	1594 (C/N)		
Property #	N/A	3980		
Last Calibration Date	01/06/10	12/29/09		
Analysis method	UV Photometric	Gravimetric		
Start date	05/01/73	05/01/73		
Operation schedule	1:1	1:6		
Sampling season	All Year	All Year		
Probe height	3.5	3.5		
Distance from supporting structure	1.8	1.6		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	N/A	N/A		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	Teflon	N/A		
Residence time	< 20	N/A		
Will there be changes within the next 18 months?	Yes	Yes		
Is it suitable for comparison against the annual PM2.5?	N/A	N/A		

Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A		
Frequency of one-point QC check (gaseous)	Nightly	N/A		

Perris
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Perris
Site Photos (Cont.)

Looking at the probe from the North.

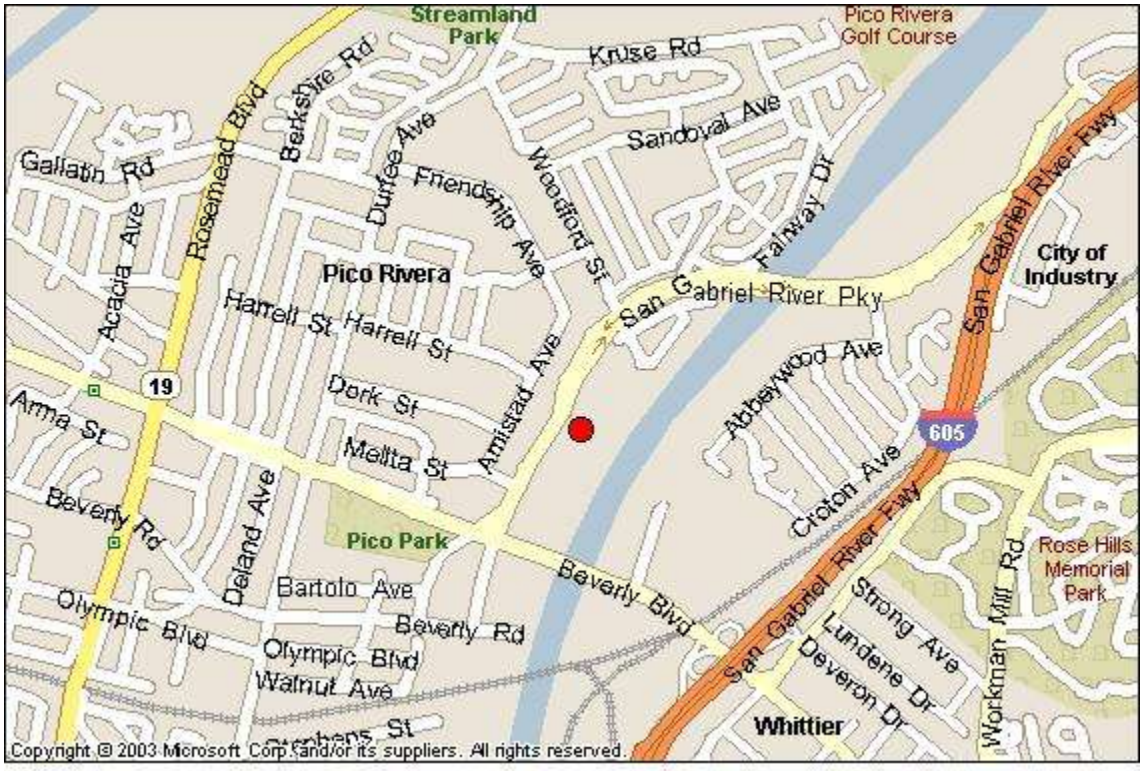
Looking at the probe from the East.

Looking at the probe from the South.

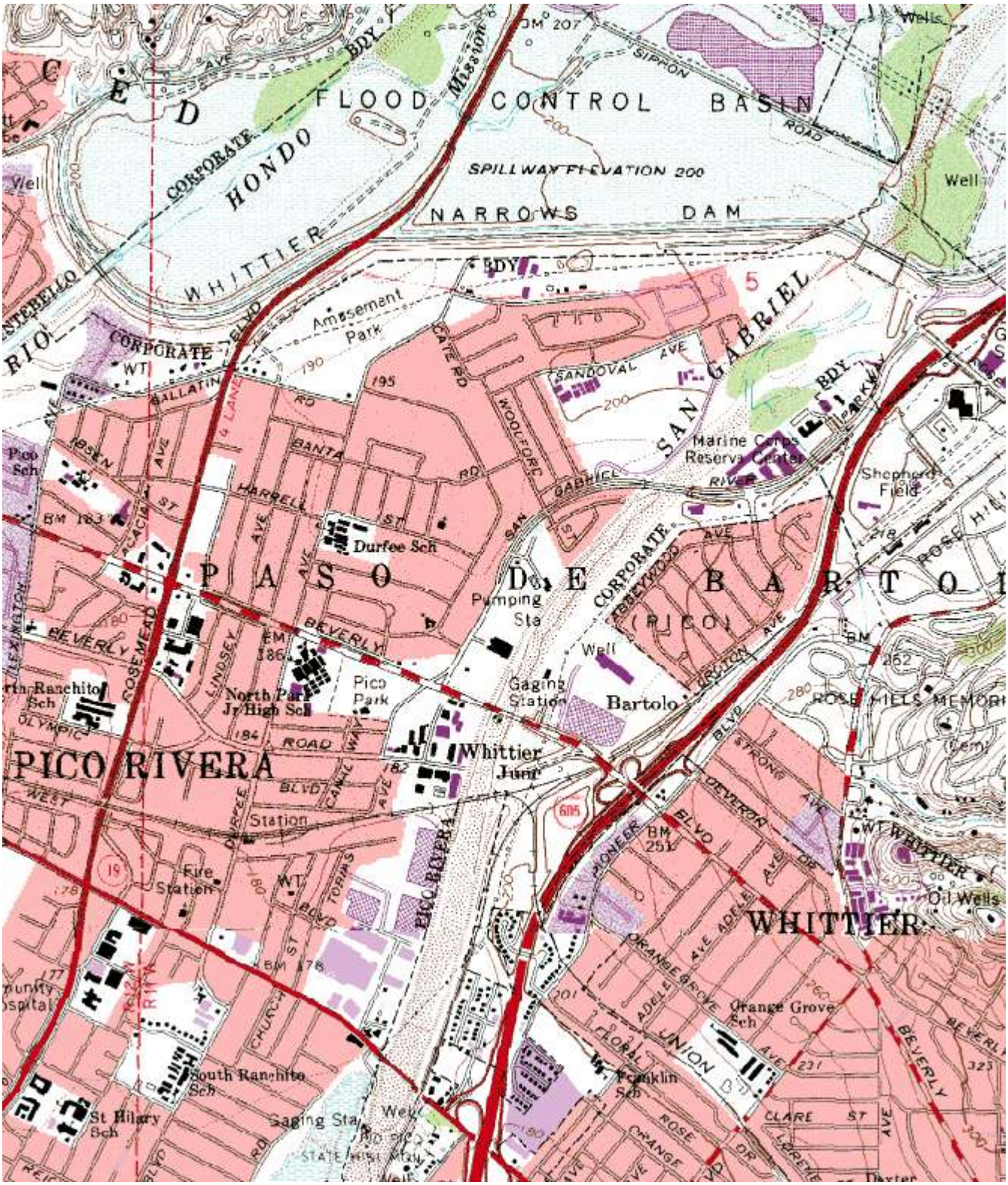
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Pico Rivera #2

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060371602	70185	09/05	South Coast AQMD (061)		
Site Address	**County**	**Air Basin**	**Latitude**	**Longitude**	**Elevation**
4144 San Gabriel River Pkwy Pico Rivera. CA 90660	Los Angeles	South Coast	34° 0' 37"	118° 04' 07"	58


FLOOD CONTROL BASIN
SPILLWAY ELEVATION 200
NARROWS DAM
HONDO
WHITTIER
CORPORATE
Amusement Park
SAN GABRIEL
RIVER
Marine Corps Reserve Center
Shepherd Field
Durfee Sch
PASO
DE BARTOLO
(RICO)
Pumping Sta
Gaging Station
Bartolo
North Park Jr High Sch
Pico Park
Whittier Junct
PICO RIVERA
Station
Fire Station
WHITTIER
Orange Grove Sch
Franklin Sch
South Rancho Sch
St Hilary Sch
Gaging Sta
Oil Wells
Well

Site Survey Report

Siting Information

Site Name: Pico Rivera #2	Date: 4/21/10	State Code: 70185	AIRS Number: 060371602
Address: 4144 San Gabriel River Pkwy. Pico Rivera, CA 90660	Latitude: 34° 0' 37"	Longitude: 118° 04' 07"	Elevation (m): 58
	Senior AQIS: Albert Dietrich	Site Technician: Tom Mac	Site Phone: (562) 478-1961
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SE
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 35 - 41 meters	Region: Valley	Probe Last Cleaned: 4/10
	Count (Veh/Day): 20,000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: unpaved parking	Agency: SCAQMD	Autocalibrator Type: Env. 100 (S/N 1343)
	Distance: 4 – 9 m	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: NE	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Pico Rivera #2			
AQS ID (AIRS #)	060371602			
GIS coordinates	Latitude: 34° 0’ 37” Longitude: 118° 04’ 07”			
Location	Water District Property			
Address	4144 San Gabriel River Pkwy, Pico Rivera, CA			
County	Los Angeles			
Dist. to road	35 – 41 meters			
Traffic count	20,000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles, Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	TSP (Lead)
Monitor obj	Population Oriented	Highest Concentration	Highest Concentration	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba 370	Thermo 42i	API/Teledyne 400	Tisch TE 300-310
Serial #	E000361	CM08360032	535-S	1546
Property #	D0006DUU	16721	N/A	N/A
Last Calibration Date	3/2/10	4/7/10	3/3/10	12/04/09
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	9/05	9/05	09/05	09/05
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.5	4.5	4.5	2.11
Distance from supporting structure	1.8	1.8	1.8	1.12
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance from minor sources	9	9	9	4
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.7	6.5	6.8	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	PM2.5			
Monitor obj	Population Oriented			
Spatial scale	Neighborhood Scale			
Sampling method	Sierra Andersen RAAS PM2.5			
Serial #	00511			
Property #	E000019			
Last Calibration Date	9/17/09			
Analysis method	Gravimetric			
Start date	09/05			
Operation schedule	1:3			
Sampling season	All Year			
Probe height	2.84			
Distance from supporting structure	1.83			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance from minor sources	4			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			

Is it suitable for comparison against the annual PM2.5?	Yes			
Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Pico Rivera #2
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

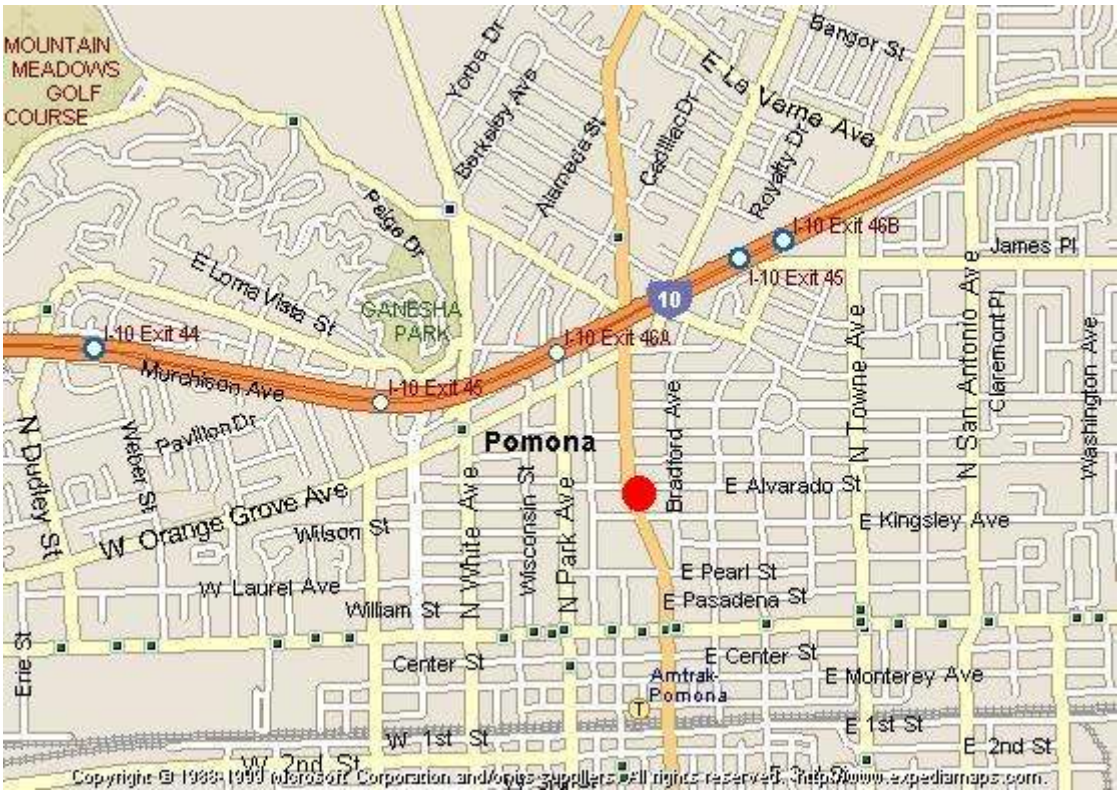
Looking West from the probe.

Pico Rivera #2
Site Photos (Cont.)

	
Looking at the probe from the North.	**Looking at the probe from the East.**
	
Looking at the probe from the South.	**Looking at the probe from the West.**

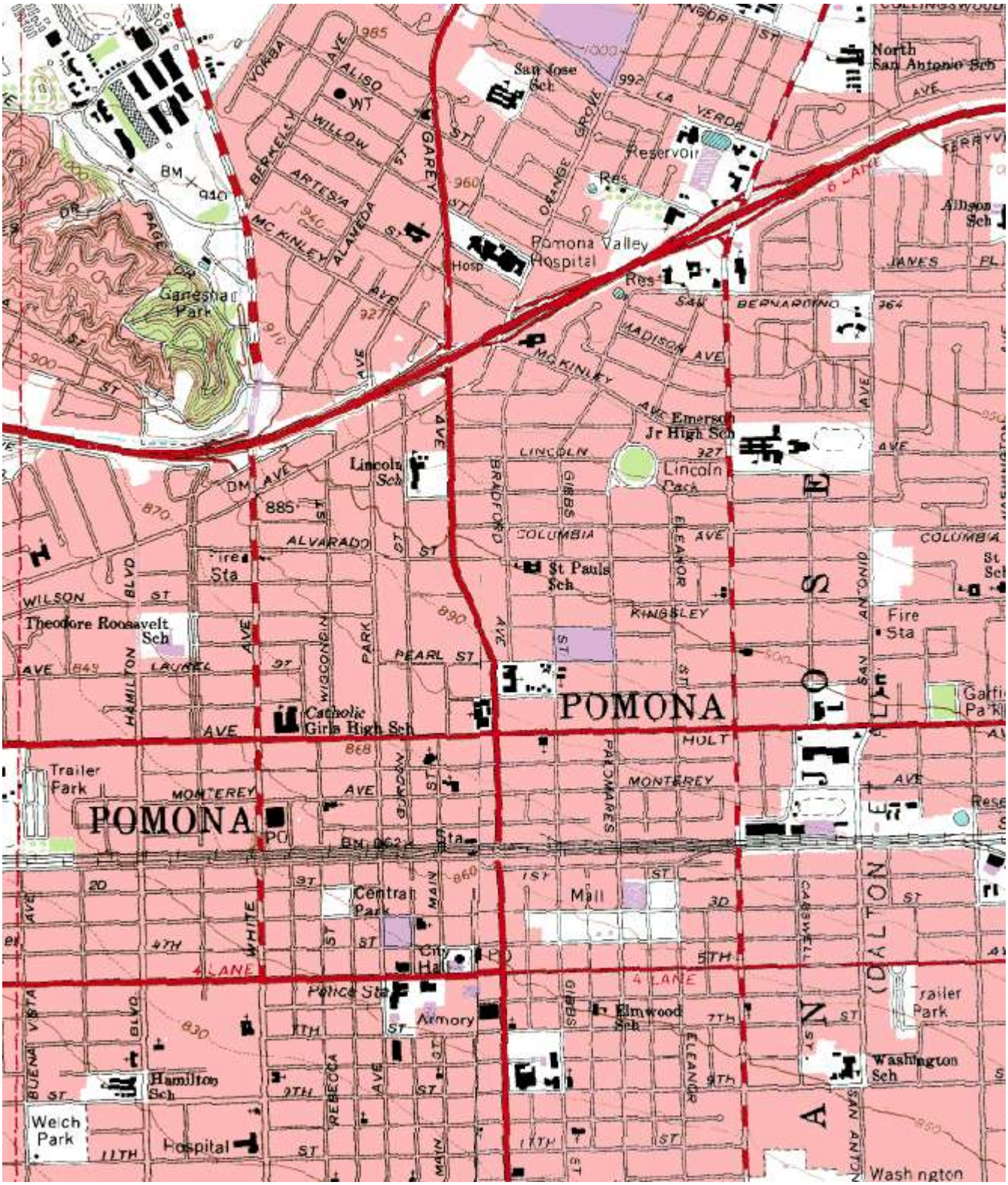
Quality Assurance
Site Survey Report for Pomona

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371701	70075	06/65	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
924 N. Garey Ave Pomona, CA 91767	Los Angeles	South Coast	34° 04' 0"	117° 45' 05"	273


POMONA
POMONA
Lincoln Sch
Lincoln Park
Emerson Jr High Sch
St Pauls Sch
Fire Sta
Theodore Roosevelt Sch
Catholic Girls High Sch
Trailer Park
Central Park
Mall
City Hall
Police Sta
Armory
Elmwood Sch
Hamilton Sch
Welch Park
Hospital
Washington Sch
Garfield Park
North San Antonio Sch
San Jose Sch
Pomona Valley Hospital
Reservoir
Garcia Park
Allison Sch
Fire Sta
Trailer Park
Washington Sch
POMONA (CALIFORNIA)
WILSON
ALVARADO
PEARL ST
MONTEREY
HOLT
MADISON AVE
MCKINLEY
BERNARDINO
COLUMBIA
LINCOLN
KINGSLEY
GIBBS
BRADFORD
ELEANOR
PARK
WHITE
MAIN
GAREY
ALAMEDA
BERKELEY
WILLOW
ARTESIA
MC KINLEY
ORANGE GROVE
LA VERDA
JANES
SAN ANTONIO
HAMILTON
WISCONSIN
GORDON
PARKMARES
CRADWELL
REBECCA
BUENA VISTA
1ST
2D
3D
4TH
5TH
7TH
9TH
11TH
4 LANE
6 LANE

Site Survey Report

Siting Information

Site Name: Pomona	Date: 4/21/10	State Code: 70075	AIRS Number: 060371701
Address: 924 N. Garey Ave Pomona, CA 91767	Latitude: 34° 04' 0"	Longitude: 117° 45' 05"	Elevation (m): 273
	Senior AQIS: Keith Brown	Site Technician: Richard Rodgers	Site Phone: (909) 623-2718
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 7 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 25,000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Pomona			
AQS ID (AIRS #)	060371701			
GIS coordinates	Latitude: 34° 04’ 0” Longitude: 117° 45’ 05”			
Location	Store Front			
Address	924 N. Garey Ave, Pomona, CA 91767			
County	Los Angeles			
Dist. to road	7 meters			
Traffic count	25000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	
Spatial scale	Microscale	Middle Scale	Middle Scale	
Sampling method	Horiba AQM-10, 11, 12	API 200E	API/Teledyne 400	
Serial #	576876076	247	519-S	
Property #	0015559	E000214	N/A	
Last Calibration Date	11/17/09	12/03/09	2/12/10	
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	
Start date	6/65	6/65	6/65	
Operation schedule	1:1	1:1	1:1	
Sampling season	All Year	All Year	All Year	
Probe height	7.3	7.3	7.3	
Distance from supporting structure	2.4	2.4	2.4	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	N/A	N/A	N/A	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	Teflon	Teflon	Teflon	
Residence time	9.2	10.5	9.9	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	

Pomona
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Pomona
Site Photos (Cont.)

Looking at the probe from the North.

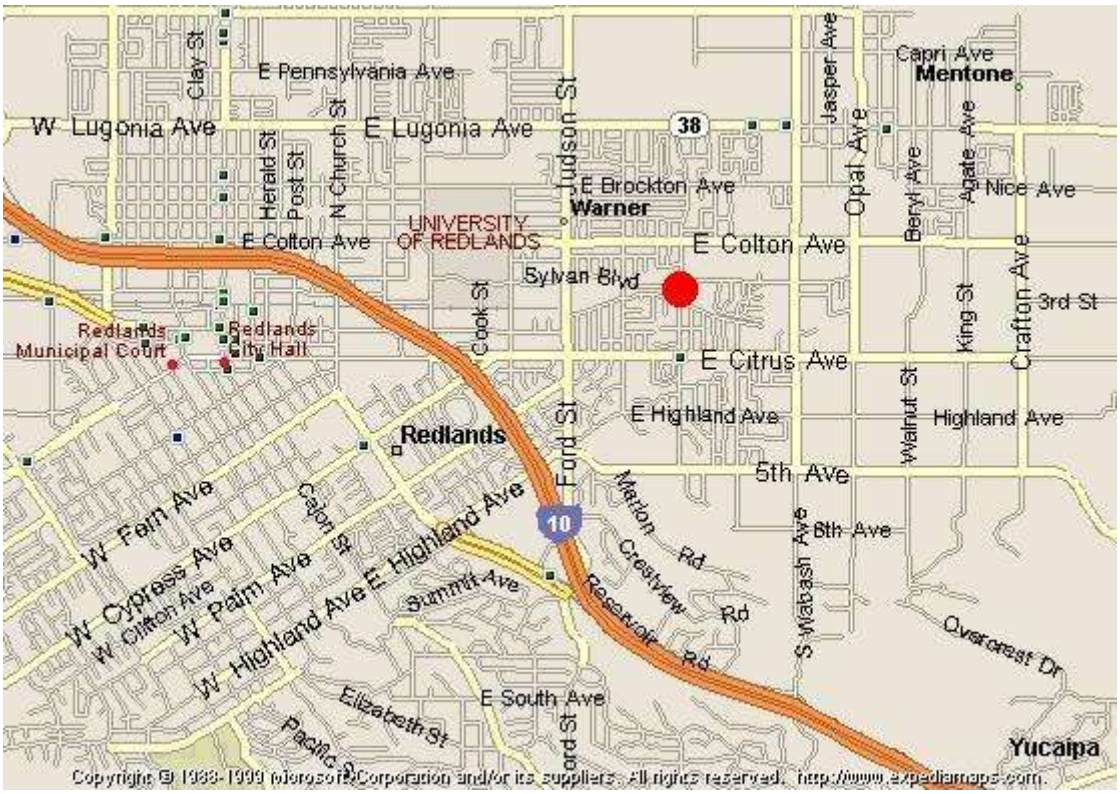
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

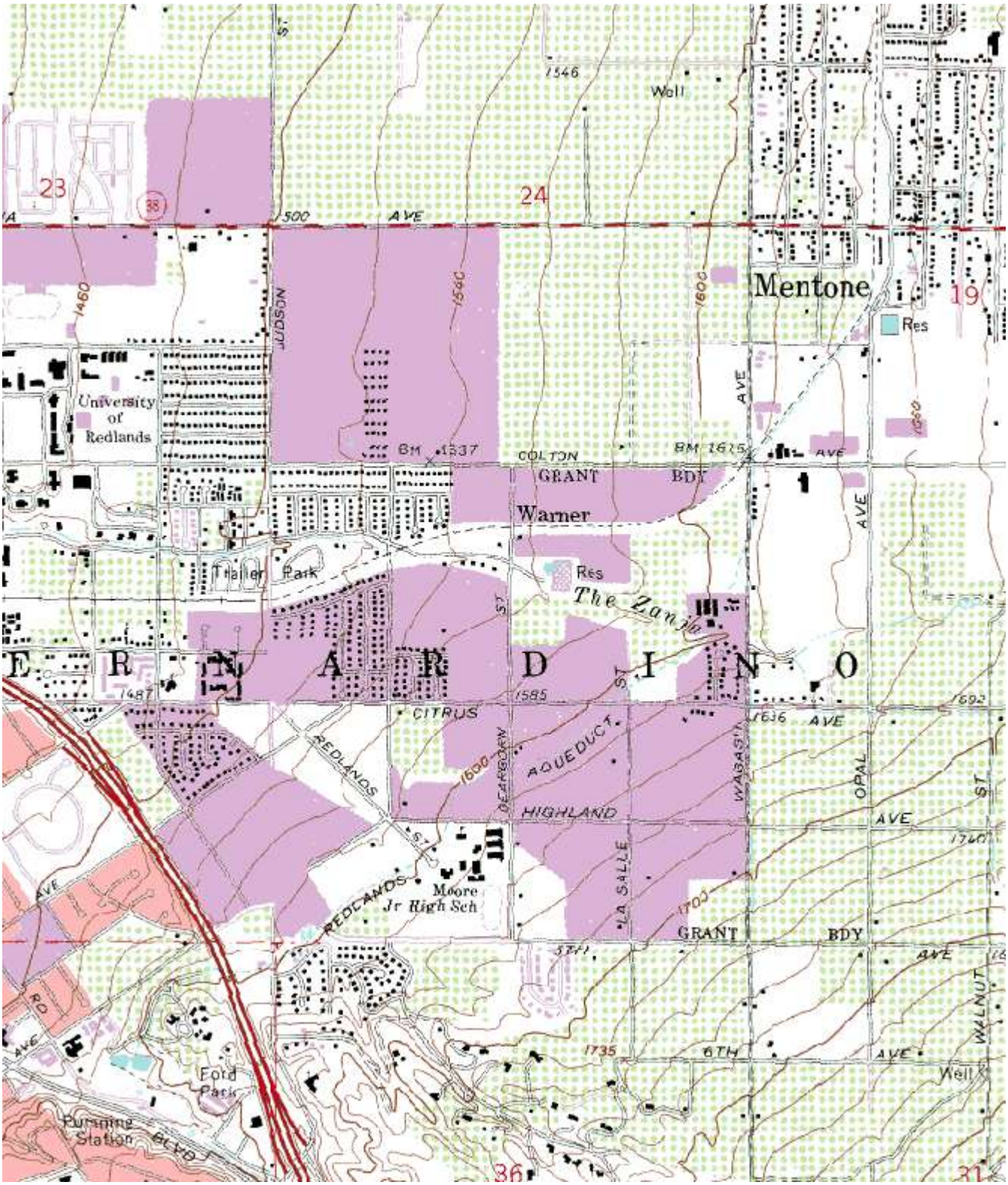
Quality Assurance
Site Survey Report for Redlands

Last updated March 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060714003	36204	09/86	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
500 N Dearborn St Redlands, CA 92374	San Bernardino	South Coast	34° 03' 35"	117° 08' 50"	475


Mentone
Warner
SAN BERNARDINO
University of Redlands
Trailer Park
Res
The Zanja
Moore Jr High Sch
Ford Park
Pumping Station
Well
Well
COLTON
GRANT
BDY
CITRUS
AQUEDUCT
HIGHLAND
REDLANDS
JUDSON
OPAL
WALNUT
LA SALLE
WABASH
DEARBORN
6TH
AVE
ST
BLVD
RD
1546
1460
1500
1540
1600
1585
1650
1636
1700
1735
1760
1692
1487
BM 1337
BM 1615
19
24
23
36
31

Site Survey Report

Siting Information

Site Name: Redlands	Date: 4/21/10	State Code: 36204	AIRS Number: 060714003
Address: 500 N. Dearborn Ave Redlands, CA 92374	Latitude: 34° 03' 35"	Longitude: 117° 08' 50"	Elevation (m): 475
	Senior AQIS: Keith Brown	Site Technician: Richard Trzcinski	Site Phone: (909) 793-6019
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: N
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 180 Degrees
Recorded: Yes	Distance: 10 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 4709	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Dirt	Agency: SCAQMD	Autocalibrator Type: Environics 100
	Distance: 2 meters	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: surrounding	Ground Cover: dirt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Redlands			
AQS ID (AIRS #)	060714003			
GIS coordinates	Latitude: 34° 03’ 35” Longitude: 117° 08’ 50”			
Location	Vacant Lot / Water District			
Address	500 N Dearborn Ave, Redlands, CA 92374			
County	San Bernardino			
Dist. to road	26 meters			
Traffic count	10 veh/day			
Groundcover	Dirt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Ozone	PM10-SSI		
Monitor obj	Population Oriented	Population Oriented		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	API/Teledyne 400E	Andersen SA1200		
Serial #	525	4939		
Property #	N/A	N/A		
Last Calibration Date	3/13/10	3/13/10		
Analysis method	UV Photometric	Gravimetric		
Start date	09/1/86	09/01/86		
Operation schedule	1:1	1:6		
Sampling season	All Year	All Year		
Probe height	5.0	3.5		
Distance from supporting structure	1.6	1.6		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	N/A	N/A		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Teflon		
Probe material	Teflon	N/A		
Residence time	8.0	N/A		
Will there be changes within the next 18 months?	Yes	Yes		
Is it suitable for comparison against the annual PM2.5?	N/A	N/A		
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A		

Frequency of one-point QC check (gaseous)	Nightly	N/A		

Redlands
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Redlands
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

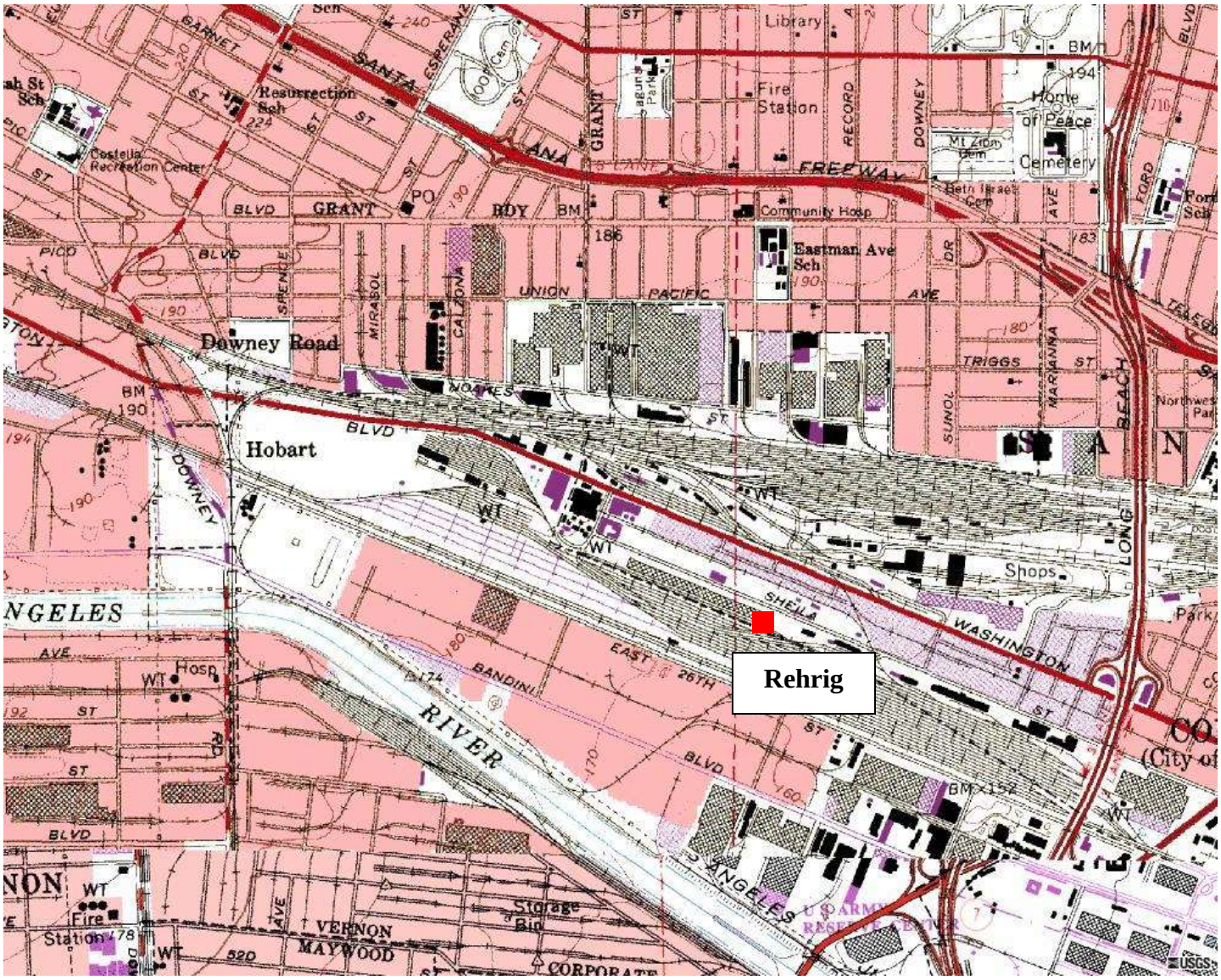
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Rehrig (Exide)

Last updated April 13, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371405		11/14/2007	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
4010 E. 26th St Vernon, CA 90058	Los Angeles	South Coast	34° 00' 23"	-118° 11' 35"	53 m


Rehrig
Downey Road
Hobart
Fire Station
Community Hosp
Eastman Ave Sch
Resurrection Sch
Costella Recreation Center
Library
Shops
Storage Bin
VERNON
MAYWOOD
CORPORATE
RIVER
GRANT
BLVD
WASHINGTON
SHEILA
EAST 26TH
BANDINI
UNION PACIFIC
SANTA ANA FREEWAY
LOS ANGELES
Home of Peace Cemetery

Site Survey Report

Siting Information

Site Name Rehrig	Date: 04/13/2010	State Code: NA	AIRS Number 0600371405
Address: 4010 E. 26th St. Vernon, CA 90058	Latitude: 34° 00' 23"'	Longitude: -118° 11′ 35"	Elevation (m): 53 m
	Senior AQIS: Mike Koch	Site Technician: J. Diez	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: No	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance 205 m	Region: Level	Probe Last Cleaned Date: N/A
	Count 20291	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: lead smelter	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 25 m	Urbanization: Urban	Site Survey Complete: Yes
	Direction: West	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Rehrig. Site			
AQS ID (AIRS #)	0600371405			
GIS coordinates	Latitude: 34° 00′ 23‴ Longitude: -118° 11′ 35″			
Location	Commercial			
Address	4010 E. 26th St., Vernon, CA 90058			
County	Los Angeles			
Dist. to road	205m (Bandini Blvd.)			
Traffic count	20291			
Groundcover	Dirt/Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	TSP High Volume	TSP High Volume	TSP High Volume	
Monitor obj	Source Impact	Source Impact	Source Impact	
Spatial scale	Microscale	Microscale	Microscale	
Sampling method	GMW TSP	GMW TSP	GMW TSP	
Serial #	1563 A	1553 B	1581 C	
Property #	NA	NA	NA	
Last Calibration Date	02/04/2010	02/03/20101	02/02/2010	
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry	Inductively Coupled Argon Plasma-Mass Spectrometry	Inductively Coupled Argon Plasma-Mass Spectrometry	
Start date	11/07	11/07	11/07	
Operation schedule	1/3	1/3	1/3	
Sampling season	All Year	All Year	All Year	
Probe height	2.6	2.6	2.6	
Distance from supporting structure	N/A	N/A	N/A	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	NA	NA	NA	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	N/A	N/A	
Residence time	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	

Exide - Rehrig
Site Photos

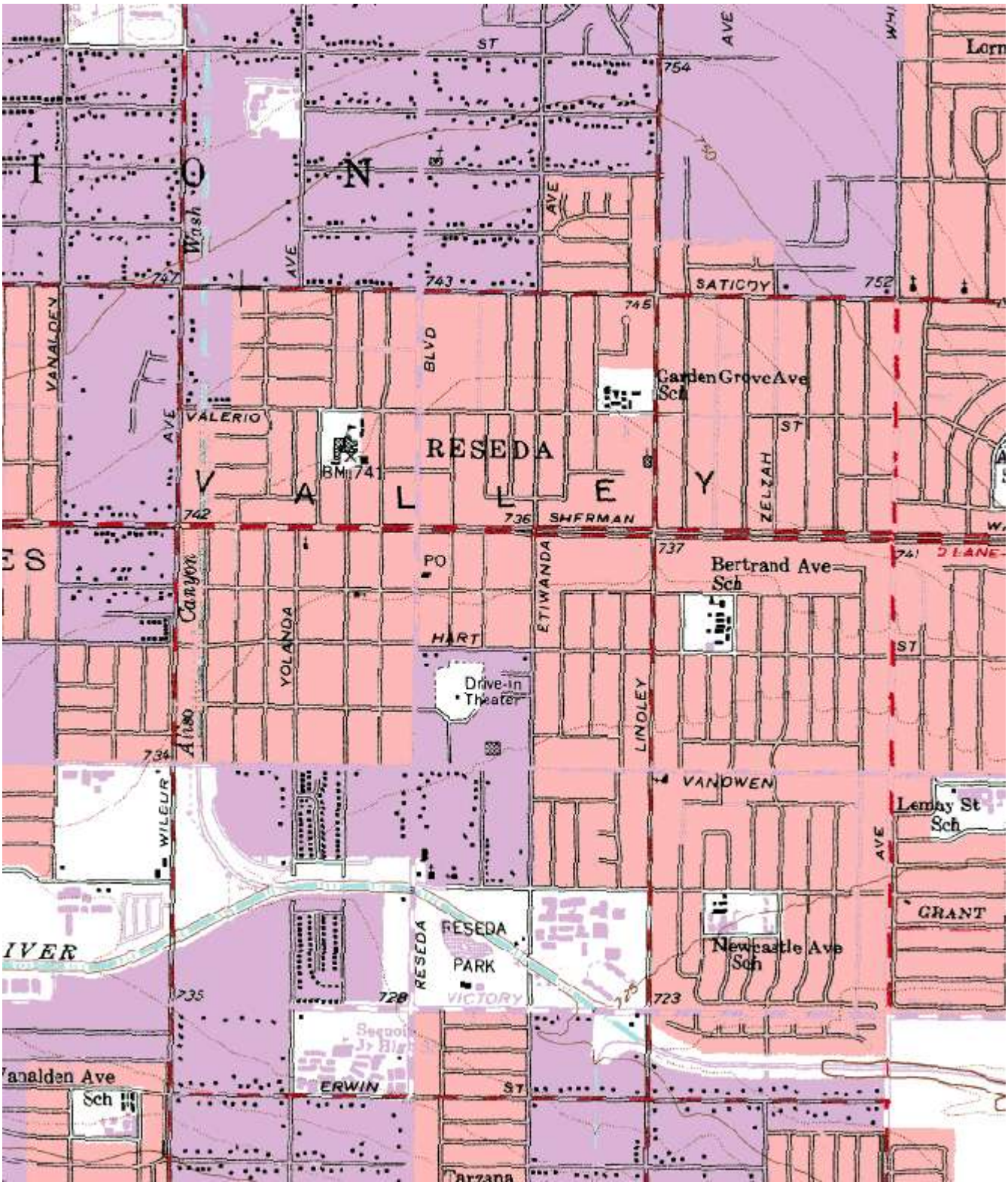
	
Looking North	**Looking East from the probe.**
	
Looking South from the probe.	**Looking West toward the probe**

Quality Assurance
Site Survey Report for Reseda

Last updated June, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371201	70074	03/65	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
18330 Gault St Reseda, CA 91702	Los Angeles	South Coast	34° 11' 56	118° 31' 57	224


RESEDA
VALLEY
Garden Grove Ave Sch
Bertrand Ave Sch
Lemay St Sch
Newcastle Ave Sch
Vanalden Ave Sch
Drive-in Theater
RESEDA PARK
VICTORY
SATICOY
VALERIO
SHERMAN
HART
VANOWEN
ERWIN
GRANT
YOLANDA
ETIWANDA
LINDLEY
WILBUR
ZELZAH
VANALDEN
BLVD
AVE
ST
PO
BM 741
754
752
747
743
745
742
736
737
741
734
735
728
723

Site Survey Report

Siting Information

Site Name: Reseda	Date: 4/21/10	State Code: 70074	AIRS Number: 060371201
Address: 18330 Gault St Reseda, CA 91702	Latitude: 34° 11' 56	Longitude: 118° 31' 57	Elevation (m): 224
	Senior AQIS: Albert Dietrich	Site Technician: Norm Broellos	Site Phone: (919) 991-2361
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Valley	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 16 - 19 meters	Region: Valley	Probe Last Cleaned: 4/10
	Count (Veh/Day): 2000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: Light Industry	Agency: South Coast AQMD	Autocalibrator Type: ENV100
	Distance: 10 meters	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: W	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Reseda			
AQS ID (AIRS #)	060371201			
GIS coordinates	Latitude: 34° 11’ 56 Longitude: 118° 31’ 57			
Location	Business Store Front			
Address	18330 Gault St, Reseda, CA 91702			
County	Los Angeles			
Dist. to road	16 -19 meters			
Traffic count	2000 veh/day			
Groundcover	Asphalt			
Representative Area	3110-Los Angeles, Long Beach, Santa Ana, CA MSA			
Pollutant	PM2.5	Carbon Monoxide	Nitrogen Dioxide	Ozone
Monitor obj	Population Oriented	Population Oriented	Population Oriented	Highest Concentration
Spatial scale	Neighborhood Scale	Neighborhood Scale	Urban Scale	Urban Scale
Sampling method	Andersen 300 RAAS 2.5	Horiba APMA360	API 200A	Teledyne 400E
Serial #	00274	576876075	1569	518
Property #	E000016	15558	E000083	N/A
Last Calibration Date	6/25/10	6/2/10	1/26/10	6/1/10
Analysis method	Gravimetric	Non dispersive infra red	Chemiluminescence	UV Photometric
Start date	01/24/99	3/65	3/65	3/65
Operation schedule	1:3	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.4	5.8	5.8	5.8
Distance from supporting structure	1.9	2.3	2.3	2.3
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	12	12	12	12
Distance from trees	12	12	12	12
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	Teflon	Teflon	Teflon
Residence time	N/A	6.0	7.8	6.7
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	Yes	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	Nightly	Nightly	Nightly

Pollutant	BAM-PM2.5			
Monitor obj	REPRESENTATIVE CONCENTRATION			
Spatial scale	Neighborhood Scale			
Sampling method	MetOne BAM 1020			
Serial #	Y14865			
Property #	E000071			
Last Calibration Date	3/14/10			
Analysis method	N/A			
Start date	2/19/09			
Operation schedule	1:1			
Sampling season	All Year			
Probe height	1.5 M			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	15 M			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	N/A			
Is it suitable for comparison against the annual PM2.5?	No			

Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	Bi-Weekly			
Frequency of one-point QC check (gaseous)	N/A			

Reseda
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Reseda
Site Photos (Cont.)

Looking at the probe from the North.

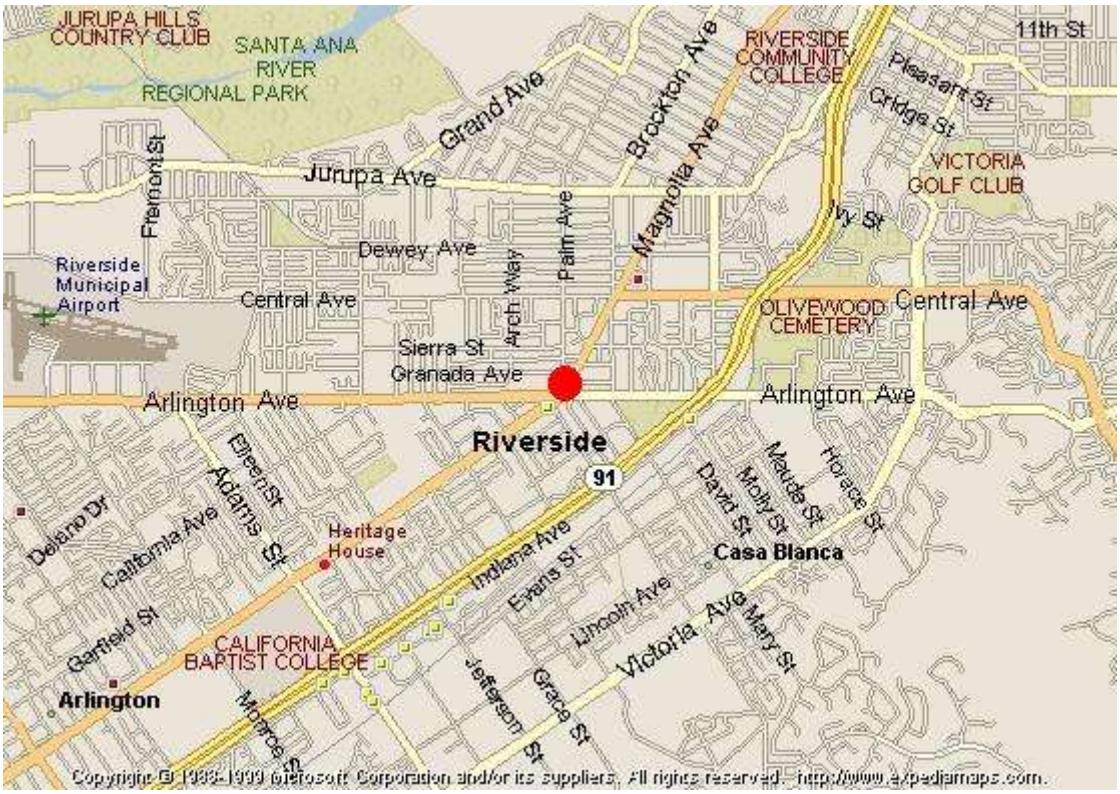
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

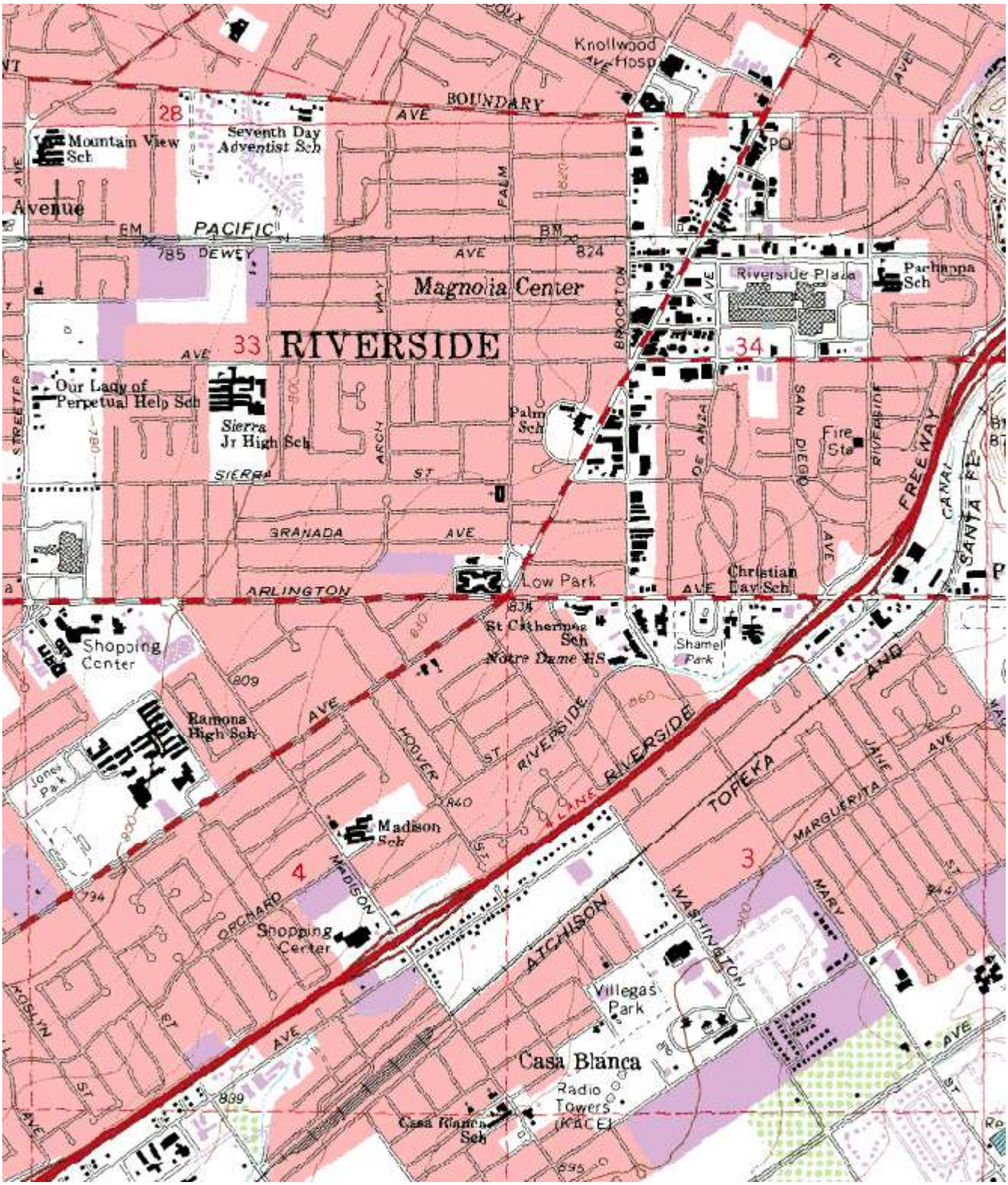
Quality Assurance
Site Survey Report for Riverside-Magnolia

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060651003	33146	10/72	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
7002 Magnolia Ave Riverside,CA 92506	Riverside	South Coast	33° 56' 45"	117° 24' 01"	256


Knollwood Hosp
BOUNDARY AVE
28
Mountain View Sch
Seventh Day Adventist Sch
Avenue
PACIFIC
785 DEWEY
AVE
824
Magnolia Center
Riverside Plaza
Pachappa Sch
33 RIVERSIDE
34
Our Lady of Perpetual Help Sch
Sierra Jr High Sch
Palm Sch
Fire Sta
SIERRA
ST
GRANADA AVE
ARLINGTON
Low Park
Christian Day Sch
St Catherines Sch
Notre Dame HS
Shamel Park
Shopping Center
Ramona High Sch
Jones Park
HOOVER ST
RIVERSIDE
TOPEKA
Madison Sch
4
3
ORCHARD
MADISON
Shopping Center
ATCHISON
WASHINGTON
Villegas Park
Casa Blanca
Radio Towers (KACE)
Casa Blanca Sch
FREEWAY
SANTA FE

Site Survey Report

Siting Information

Site Name: Riverside-Magnolia	Date: 4/21/10	State Code: 33146	AIRS Number: 060651003
Address: 7002 Magnolia Ave Riverside, CA 92506	Latitude: 33° 56' 45"	Longitude: 117° 24' 01"	Elevation (m): 256
	Senior AQIS: Keith Brown	Site Technician: Richard Trzcinski	Site Phone: (951) 787-8142
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Arterial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 28 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 40000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: No	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Riverside-Magnolia			
AQS ID (AIRS #)	060651003			
GIS coordinates	Latitude: 33° 56’ 45” Longitude: 117° 24’ 01”			
Location	Store Front			
Address	7002 Magnolia Ave, Riverside, CA 92506			
County	Riverside			
Dist. to road	28 meters			
Traffic count	40,000 veh/day			
Groundcover	Asphalt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	TSP-A Pb	TSP-B Pb	PM2.5 RAAS
Monitor obj	Highest Concentration	Highest Concentration	Highest Concentration	Population Oriented
Spatial scale	Microscale	Microscale	Microscale	Neighborhood Scale
Sampling method	Horiba APMA-360			Andersen 300
Serial #	41346760055	54244	54249	00343
Property #	16510	N/A	N/A	E000001
Last Calibration Date	2/19/10	11/12/09	11/12/09	2/11/10
Analysis method	Non dispersive infra red	Gravimetric	Gravimetric	Gravimetric
Start date	10/72	10/72	10/72	01/06/99
Operation schedule	1:1	1:6	1:6	1:3
Sampling season	All Year	All Year	All Year	All Year
Probe height	7.9	7.9	7.9	7.9
Distance from supporting structure	1.5	1.4	1.4	1.4
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	15	15	15	15
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	2.0	2.0	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	N/A	N/A	N/A
Residence time	11.4	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	N/A	N/A	N/A

Pollutant	NO/NOX	BAM PM2.5		
Monitor obj	Special Purpose	Population Oriented		
Spatial scale	Neighborhood	Neighborhood		
Sampling method	Thermo 42i	MetOne 1020		
Serial #	0819331150			
Property #	164911			
Last Calibration Date	12/01/09	4/9/10		
Analysis method	Chemiluminescence	Beta attenuation		
Start date	12/08	4/9/9		
Operation schedule	1:1	1:1		
Sampling season	All Year	All Year		
Probe height	7.9	7.9		
Distance from supporting structure	1.5	1.5		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	15	15		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	Teflon/Glass	Stainless		
Residence time	12.9	N/A		
Will there be changes within the next 18 months?	No	No		
Is it suitable for comparison against the annual PM2.5?	No	No		
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers audit	N/A	Bi-weekly		
Frequency of one-point QC check (gaseous)	Daily	N/A		

Riverside-Magnolia
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Riverside-Magnolia
Site Photos (Cont.)

Looking at the probe from the North.

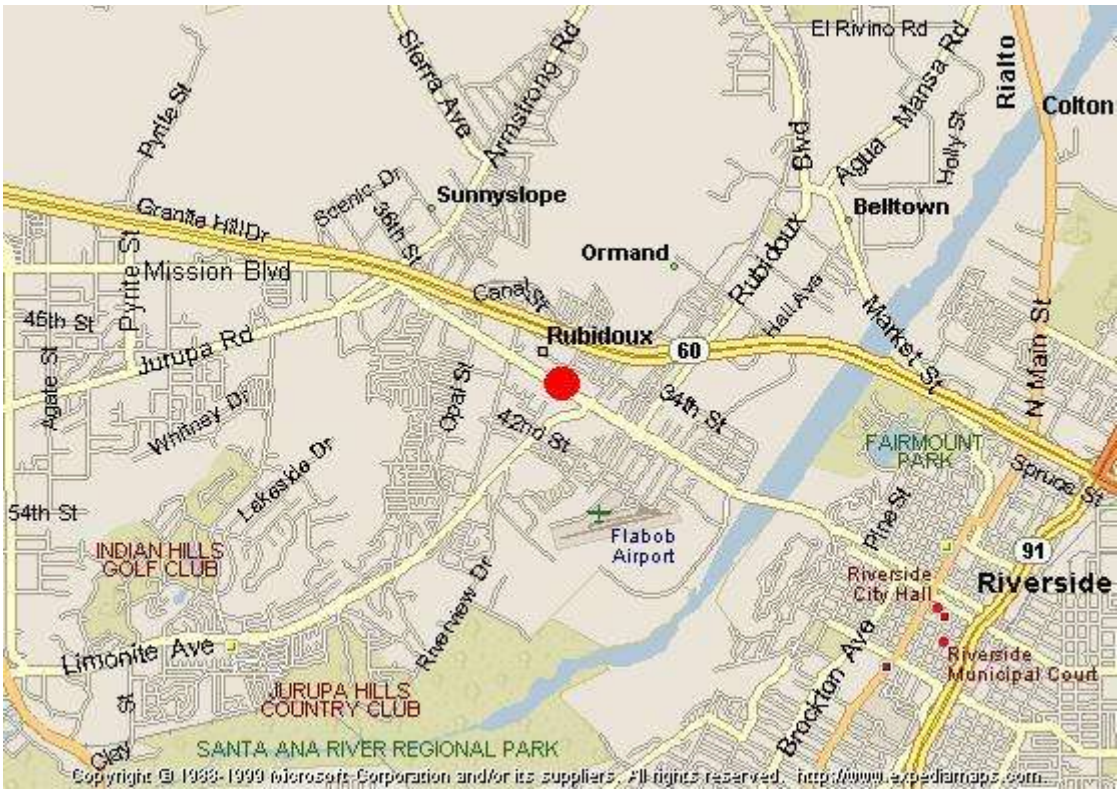
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

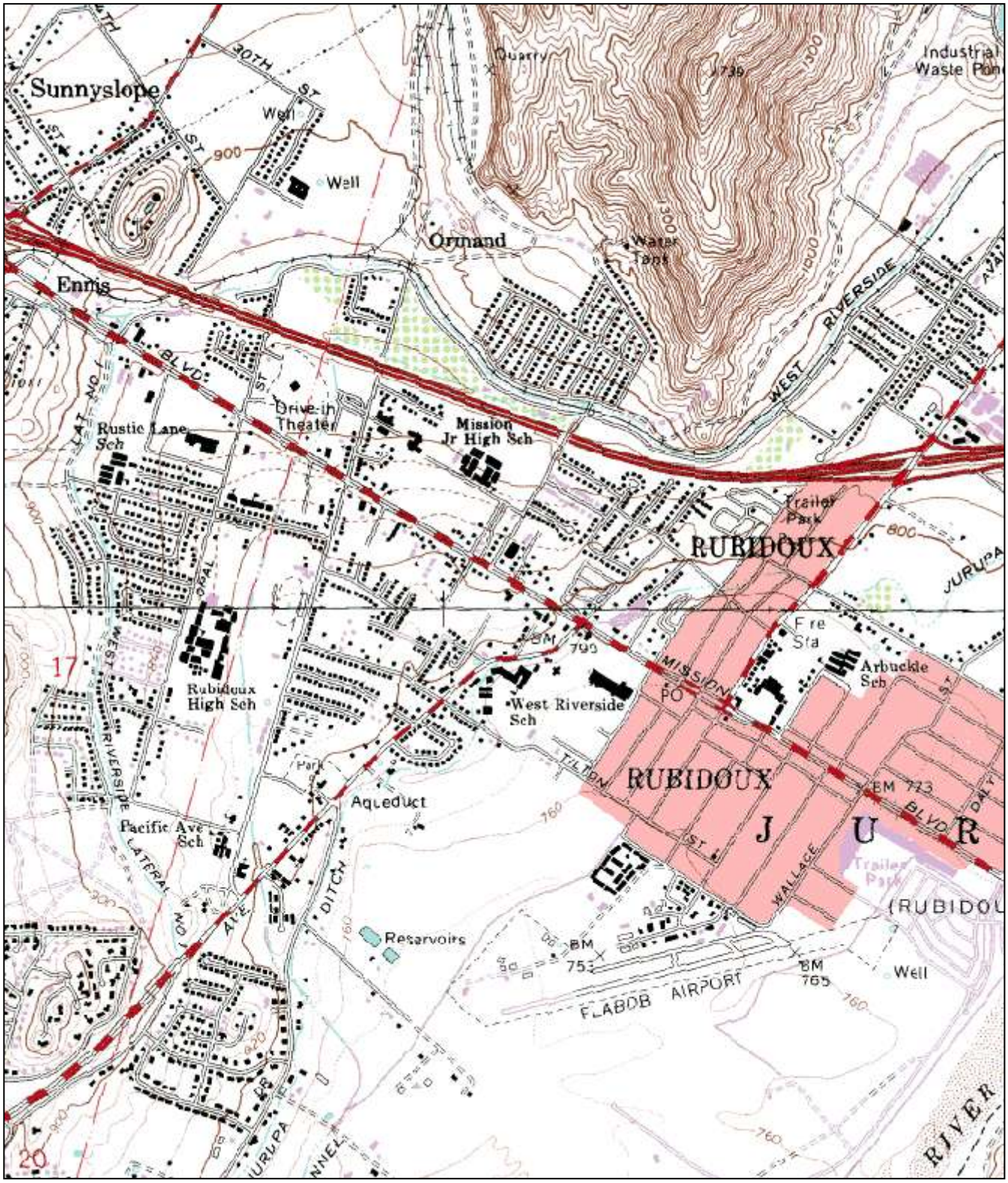
Quality Assurance
Site Survey Report for Riverside-Rubidoux

Last updated May, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060658001	33144	09/72	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
5888 Mission Blvd Riverside, CA 92509	Riverside	South Coast	33° 59' 58"	117° 24' 57"	248


Sunnyslope
Well
Well
Ormand
Quarry
Water Tank
Industrial Waste Pond
Ennis
Rustic Lane Sch
Drive-in Theater
Mission Jr High Sch
Trailer Park
RUBIDOUX
Fire Sta
Arbuckle Sch
Rubidoux High Sch
West Riverside Sch
PO
RUBIDOUX
Aqueduct
Pacific Ave Sch
Reservoirs
Trailer Park
(RUBIDOUX
Well
FLABOB AIRPORT
RIVER
17
20
WEST RIVERSIDE LATERAL NO 1
DITCH
JURUPA
MISSION BLVD
WALLACE AVE
BM 799
BM 753
BM 765
EM 713

Site Survey Report

Siting Information

Site Name: Riverside-Rubidoux	Date: 4/21/10	State Code: 33144	AIRS Number: 060658001
Address: 5888 Mission Blvd Riverside, CA 92509	Latitude: 33° 59' 58"	Longitude: 117° 24' 57"	Elevation (m): 248
	Senior AQIS: Keith Brown	Site Technician: Lila Enriquez	Site Phone: (951) 683-0211
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 119 meters	Region: Level	Probe Last Cleaned: 3/18/10
	Count (Veh/Day): 20,000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Rural	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Riverside-Rubidoux
AQS ID (AIRS #)	060658001
GIS coordinates	Latitude: 33° 59’ 58” Longitude: 117° 24’ 57”
Location	Vacant Lot
Address	5888 Mission Blvd, Riverside, CA 92509
County	Riverside
Dist. to road	119 meters
Traffic count	20,000 veh/day
Groundcover	Gravel
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA

Pollutant	Carbon Monoxide	Sulfur Dioxide	Nitrogen Dioxide	Ozone
Monitor Objective	Population Oriented	Population Exposure	Population Exposure	Highest Concentration
Spatial Scale	Middle Scale	Neighborhood Scale	Urban Scale	Urban Scale
Sampling Method	Horiba APMA 370	Thermo 43i	Thermo 42i	Thermo 49i
Serial #	J000VU6D	0527612599	CM08360050	0624418403
Property #	E000358	16633	16736	E000315
Last Calibration Date	3-2-10	3-2-10	2-28-10	2-24-10
Analysis Method	Non-Dispersive infra red	Pulsed fluorescence	Chemiluminescence	UV absorption
Start Date	9/72	9/72	9/72	9/72
Operation Schedule	1:1	1:1	1:1	1:1
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	4m	4m	4m	4m
Distance from Supporting Structure	1.52	1.52	1.52	1.52
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	5.1	7.0	7.1	5.2
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for	N/A	N/A	N/A	N/A

automated PM analyzers audit				
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly
Last Annual Performance Evaluation (gaseous)	3-25-10	3-25-10	3-25-10	3-25-10
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A

Pollutant	BAM-PM2.5	BAM-PM2.5	TEOM-PM10	XonTech 910
Monitor Objective	Population Oriented	Population Oriented	Highest Concentration	Population Oriented
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	MetOne BAM 1020 FEM	MetOne BAM 1020	R & P 1400	XonTech 910
Serial #	H3185	ARB Unit	ARB Unit	4147
Property #	16719	20021141	20013773	15752
Last Calibration Date	4-1-10	4-1-10	3-8-10	3-5-10
Analysis Method	Beta Attenuation	Beta Attenuation	TEOM	TO-15 NATTS
Start Date	12-08	2-06	12-03-04	9-07
Operation Schedule	1:1	1:1	1:1	1:6
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	4m	4m	4m	4m
Distance from Supporting Structure	N/A	N/A	N/A	N/A
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	1m	1m	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	Stainless Steel
Residence time	N/A	N/A	N/A	8.4
Will there be changes within the next 18 months?	No	No	No	Yes
Is it suitable for comparison against the annual PM2.5?	Yes	Yes	No	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	Monthly	Monthly	Monthly	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A

Pollutant	XonTech 910	XonTech 910	XonTech 910	XonTech 910
Monitor Objective	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	XonTech 910	XonTech 910	XonTech 910	XonTech 910
Serial #	5192	3991	5741	4149
Property #	E000284	N/A	E000305	15484
Last Calibration Date	11-18-09	2-10-10	4-2-10	4-8-10
Analysis Method	TO-15 NATTS	TO-15 NATTS	TO-15 NATTS	TO-15 NATTS
Start Date	11-04	7-09	6-09	7-09
Operation Schedule	1:Every other Month	1:6	1:3	1:6
Sampling Season	All Year	All Year	PAMS	PAMS
Probe Height	4m	4m	4m	4m
Distance from Supporting Structure	N/A	N/A	N/A	N/A
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Residence time	8.3	6.3	N/A	5.0
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A

Pollutant	XonTech 910-PC	PM2.5-RAAS-A	PM2.5-RAAS-B	PM2.5-SASS
Monitor Objective	Population Oriented	Highest Concentration	Highest Concentration	Highest Concentration
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	XonTech 910	Andersen 300 RAAS	Andersen 300 RAAS	MetOne SASS
Serial #	ARB Unit	498	112	B3802
Property #	20062213	N/A	E000011	E000178
Last Calibration Date	11-09	11-17-09	9-09	3-24-10
Analysis Method	CARB Lab	Gravimetric	Gravimetric	Gravimetric
Start Date	11-09	01-03-99	12-04-98	10-13-04
Operation Schedule	1:12	1:1	1:6	1:6
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	4m	3m	3m	3m
Distance from Supporting Structure	N/A	1.6	1.6	1.6
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	10	10	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	1.5	1.5	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Stainless Steel	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	Yes	NO	NO	No
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	Yes	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	5-6-09, 11-09	5-6-09, 11-23-10	11-09

Pollutant	PM2.5-SASS-A	PM2.5-SASS-B	PM2.5-URG-A	PM2.5-URG-B
Monitor Objective	Highest Concentration	Highest Concentration	Highest Concentration	Highest Concentration
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	MetOne SASS	MetOne SASS	URG	URG
Serial #	A5521	A5525	3N-B0288	3N-B0155
Property #				
Last Calibration Date	3-25-10	3-24-10	3-25-10	3-25-10
Analysis Method	RTI (EPA STN Lab)	RTI (EPA STN Lab)	RTI (EPA STN Lab)	RTI (EPA STN Lab)
Start Date	10-13-04	10-13-04	5-3-07	5-3-07
Operation Schedule	1:3	1:6	1:3	1:6
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	3m	3m	2m	2m
Distance from Supporting Structure	1.6	1.6	1	1
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	1m	1m	1.5	1.5
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	11-23-09	11-23-09	N/A	N/A

Pollutant	Total PM (TSP)	PM10-SSI-A	PM10-SSI-B	XonTech 924
Monitor Objective	Representative Concentration	Highest Concentration	Highest Concentration	Population Oriented
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	TSP	SA 1200	SA 1200	XonTech 924
Serial #	N/A	N/A		6139
Property #	1566	4941	50468	16760
Last Calibration Date	3-17-10	3-17-10	2-4-10	12-9-09
Analysis Method	Inductively Coupled Argon Plasma-Mass Spectrometry	Gravimetric	Gravimetric	TO-15 NATTS
Start Date	9-6-90	01-14-97	5-14-09	1/07
Operation Schedule	1:6	1:3	1:6	1:6
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	2m	2.5m	2.5	3m
Distance from Supporting Structure	1.6	1.6	1.6	
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	10	10	10	10
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	4	4	4
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	11-23-09, 3-16-10	5-6-09, 11-09	11-23-09	N/A

Pollutant	XonTech 924	XonTech 924	PUF-A	PUF-B
Monitor Objective	Population Oriented	Population Oriented	Population Oriented	Population Oriented
Spatial Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling Method	XonTech 924	XonTech 924	Tisch Env	Gaseby
Serial #	N/A	20021474		
Property #	16681	ARB Unit	50491	13895
Last Calibration Date	2-12-10	8-09	12-3-09	2-12-10
Analysis Method	TO-15 NATTS	CARB Lab	Eastern Research Group - TO-15 NATTS	Eastern Research Group - TO-15 NATTS
Start Date	1/07	1-03-99	7-2007	7-2007
Operation Schedule	1:Every other Month	1:12	1:6	1:Every other Month
Sampling Season	All Year	All Year	All Year	All Year
Probe Height	3m	3m	2m	2m
Distance from Supporting Structure	1.6	1.6	1.6	1.6
Distance from obstructions on Roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from Trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	3m	N/A	3m	3m
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM	N/A	N/A	N/A	N/A

monitors				

Riverside-Rubidoux
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Riverside-Rubidoux
Site Photos (Cont.)

Looking at the probe from the North.

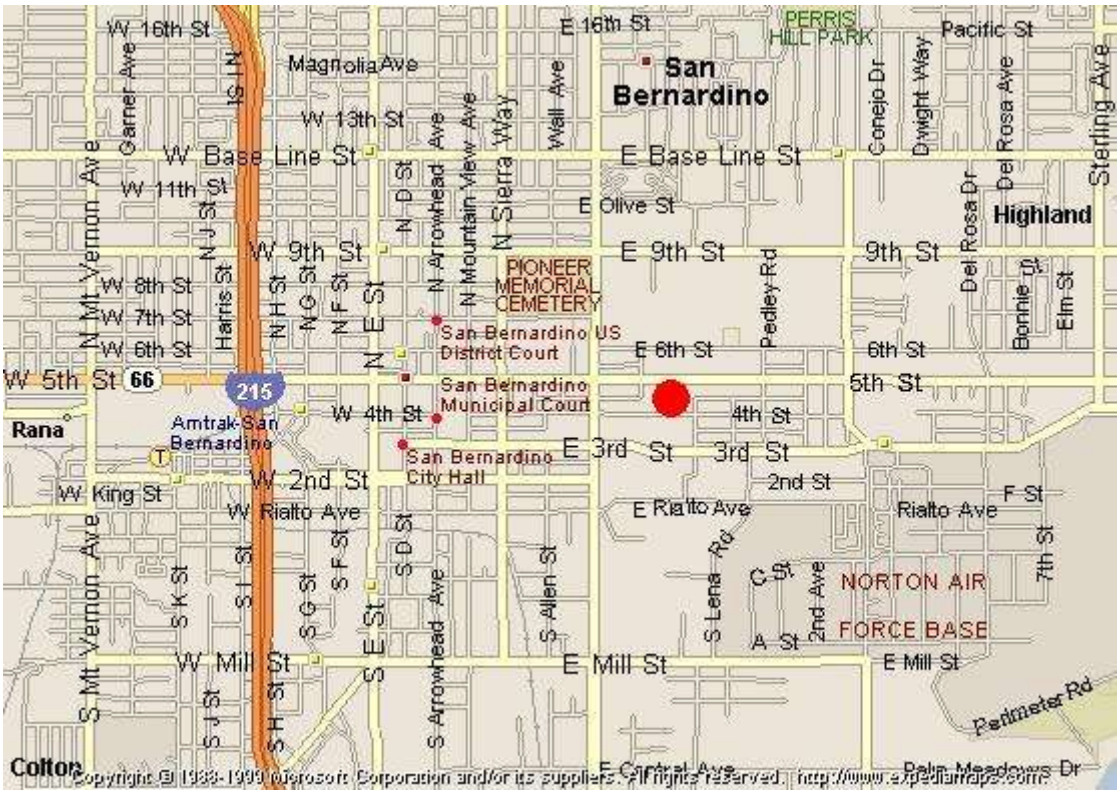
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

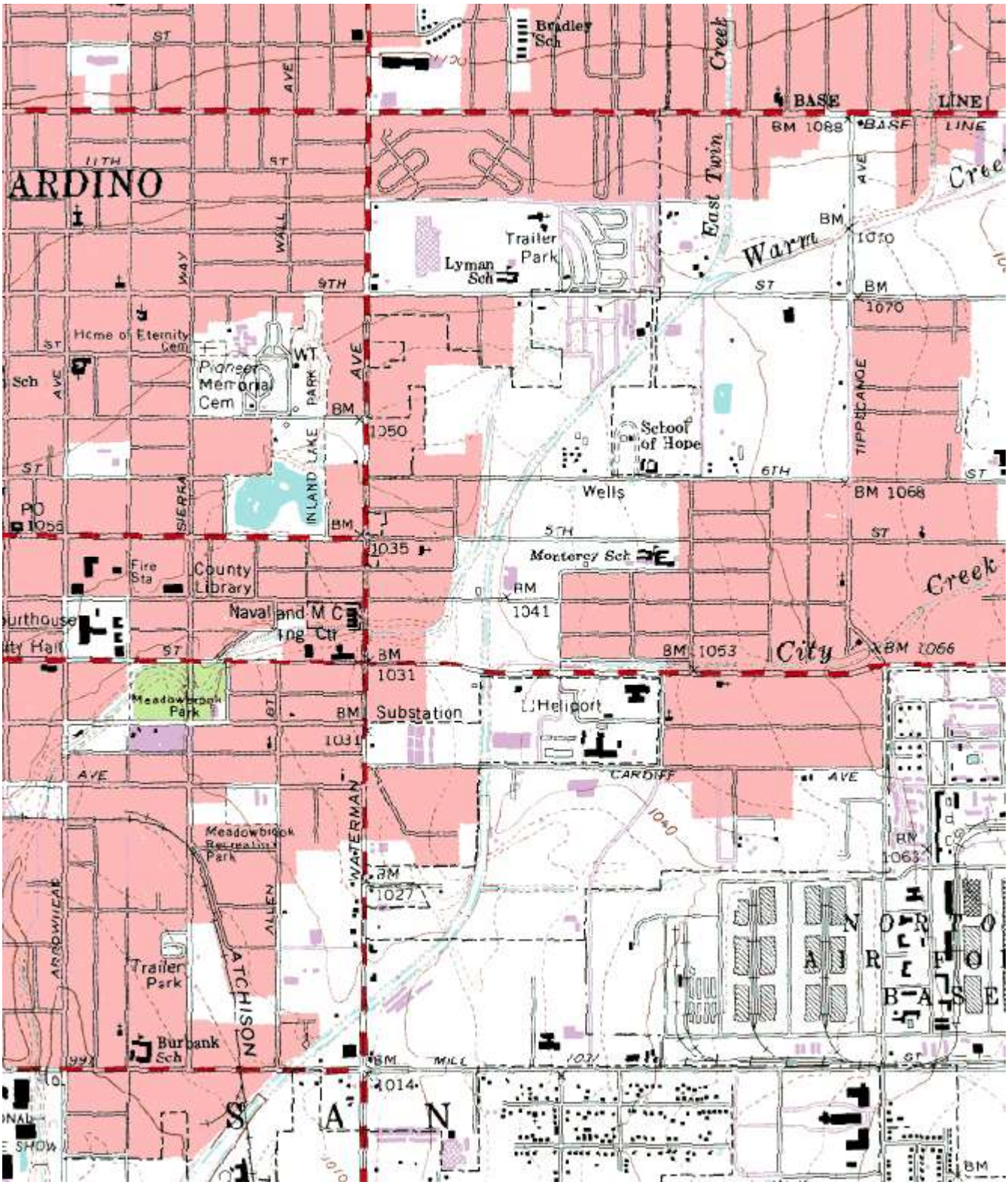
Quality Assurance
Site Survey Report for San Bernardino

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060719004	36203	05/86	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
24302 E 4th St San Bernardino, CA 92410	San Bernardino	South Coast	34° 06' 24"	117° 16' 26"	316


ARDINO
Bradley Sch
BASE LINE
BM 1088
East Twin Creek
Warm Creek
Trailer Park
Lyman Sch
BM 1070
Home of Eternity Cem
Pioneer Memorial Cem
WT
BM 1050
School of Hope
Wells
BM 1068
PO
Fire Sta
County Library
Monterey Sch
BM 1041
Naval and M C Ing Ctr
BM 1053
City
BM 1066
BM 1031
Meadowbrook Park
Substation
Heliport
CARDIFF
Meadowbrook Recreation Park
BM 1027
Trailer Park
Burbank Sch
BM 1014
NORTON AIR FORCE BASE
SAN

Site Survey Report

Siting Information

Site Name: San Bernardino	Date: 4/21/10	State Code: 36203	AIRS Number: 060719004
Address: 24302 E. 4th St San Bernardino, CA 92410	Latitude: 34° 06' 24"	Longitude: 117° 16' 26"	Elevation (m): 316
	Senior AQIS: Keith Brown	Site Technician: Richard Trzcinski	Site Phone: (909) 888-3051
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 16 - 23 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 2500	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 9100
	Distance: N/A	Urbanization: Urban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	San Bernardino			
AQS ID (AIRS #)	060719004			
GIS coordinates	Latitude: 34° 06’ 24” Longitude: 117° 16’ 26”			
Location	Elementary School			
Address	24302 E 4th St, San Bernardino, CA 92410			
County	San Bernardino			
Dist. to road	16 - 23 meters			
Traffic count	2500 veh/day			
Groundcover	Asphalt			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10 TEOM
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	Highest Concentration
Spatial scale	Middle Scale	Urban Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA 370	Thermo 42 i	API-Teledyne 400E	TEOM 1400A
Serial #	H000KT6D		513	20003798
Property #	E000343	16725	N/A	N/A
Last Calibration Date	01/13/10	4/14/10	11/14/09	1/6/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV photometric	Gravimetric
Start date	5/86	5/86	5/86	09/01/04
Operation schedule	1:1	1:1	1:1	Cont
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.8	4.8	4.8	2.4
Distance from supporting structure	1.4	1.4	1.4	1.4
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	< 20	< 20	< 20	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	TSP (Lead)	PM2.5 RAAS	PM10-SSI	
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	
Sampling method	GMW2000	Andersen 300 RAAS	Andersen GMW-1200	
Serial #	N/A	00444	N/A	
Property #	1569		4993	
Last Calibration Date	11/24/09	3/25/10	11/24/09	
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry	Gravimetric	Gravimetric	
Start date	9/90	08/27/08	1/97	
Operation schedule	1:6	1:3	1:6	
Sampling season	All Year	All Year	All Year	
Probe height	2.0	2.0	2.0	
Distance from supporting structure	1.0	1.0	1.0	
Distance from obstructions on roof	N/A	N/A	N/A	
Distance from obstructions not on roof	N/A	N/A	N/A	
Distance from trees	N/A	N/A	N/A	
Distance to furnace or incinerator flue	N/A	N/A	N/A	
Distance between collocated monitors	N/A	N/A	N/A	
Unrestricted airflow	Yes	Yes	Yes	
Probe material	N/A	N/A	N/A	
Residence time	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	
Is it suitable for comparison against the annual PM2.5?	N/A	Yes	No	
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A		
Frequency of one-point QC check	N/A	N/A		

San Bernardino
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

San Bernardino
Site Photos (Cont.)

Looking at the probe from the North.

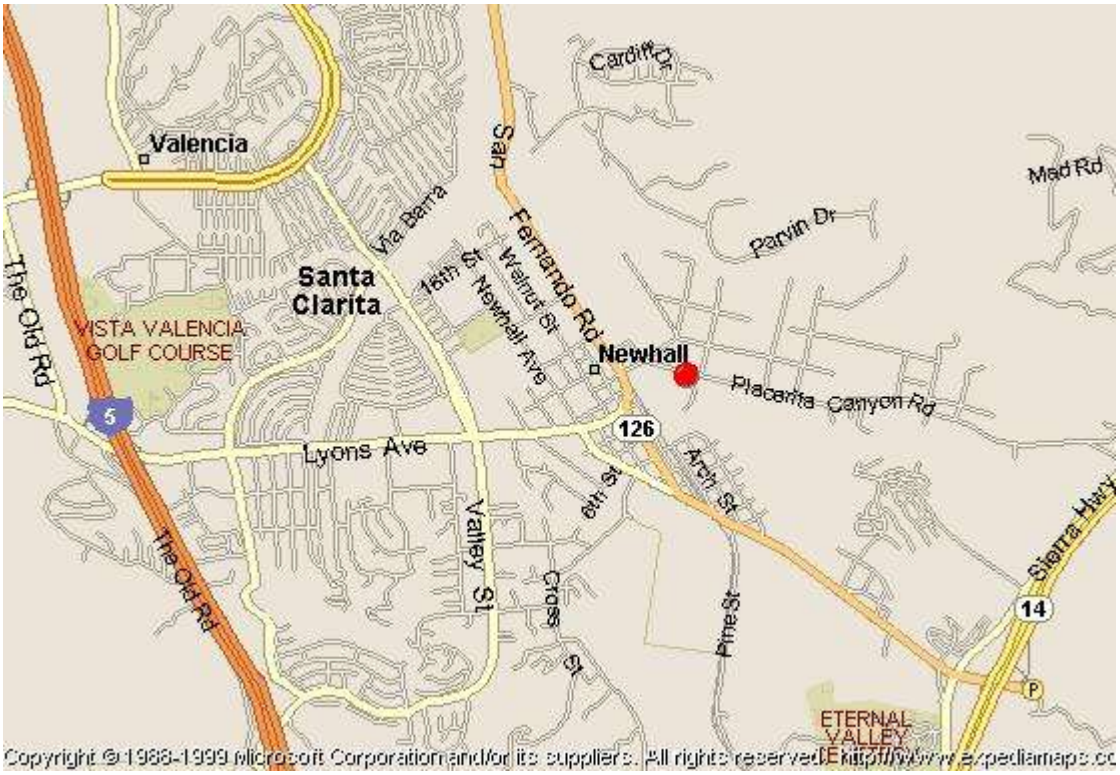
Looking at the probe from the East.

Looking at the probe from the South.

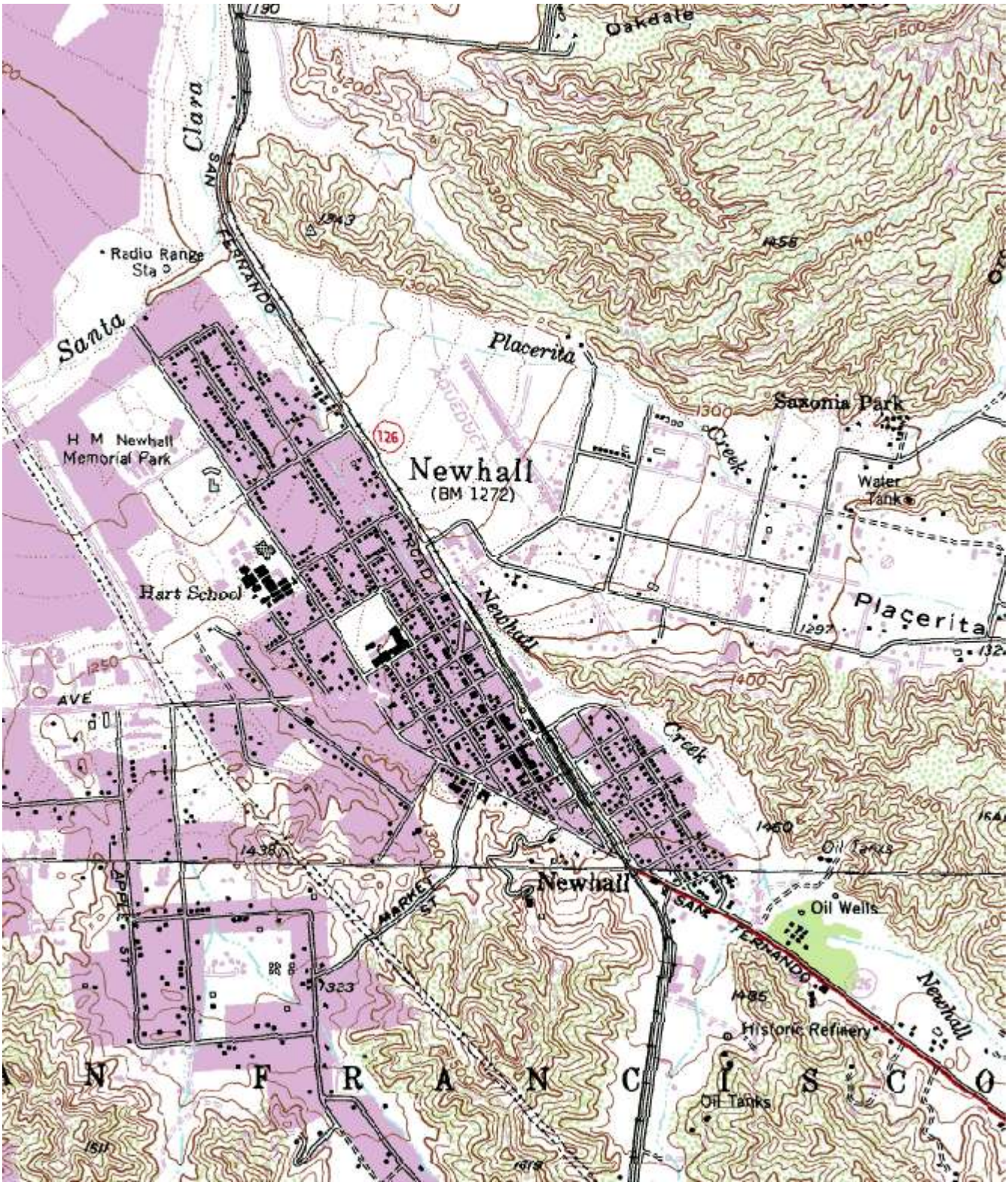
Looking at the probe from the West.

Quality Assurance
Site Survey Report for Santa Clarita-Placerita

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060376012	70090	05/01	South Coast AQMD (061)		
Site Address	**County**	**Air Basin**	**Latitude**	**Longitude**	**Elevation**
22224 Placerita Canyon Rd Santa Clarita, CA 91321	Los Angeles	South Coast	34° 23' 0"	118° 31' 42"	386


Oakdale
Clara
San
Fernando
Radio Range Sta
Santa
Placerita
Saxonia Park
Creek
Water Tank
H M Newhall Memorial Park
126
Newhall
(BM 1272)
Road
Hart School
Newhall
Placerita
Creek
Oil Tanks
Newhall
Oil Wells
San Fernando
Historic Refinery
Oil Tanks
Market St
Ave
N F R A N C I S C O

Site Survey Report

Siting Information

Site Name: Santa Clarita-Placerita	Date: 4/21/10	State Code: 70090	AIRS Number: 060376012
Address: 22224 Placerita Canyon Rd Santa Clarita, CA 91321	Latitude: 34° 23' 0"	Longitude: 118° 31' 42"	Elevation (m): 386
	Senior AQIS: Albert Dietrich	Site Technician: Norm Broellos	Site Phone: (661) 287-3785
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SE
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 91 meters	Region: Hilly	Probe Last Cleaned: 4/10
	Count (Veh/Day): 5000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type:Environics 9100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Santa Clarita-Placerita			
AQS ID (AIRS #)	060376012			
GIS coordinates	Latitude: 34° 23’ 0” Longitude: 118° 31’ 42”			
Location	LA County Road Yard			
Address	22224 Placerita Canyon, Santa Clarita, CA 91321			
County	Los Angeles			
Dist. to road	91 meters			
Traffic count	5,000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles, Long Beach, Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10-SSI
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Urban Scale	Neighborhood Scale
Sampling method	Horiba APMA-360	API 200	API/Teledyne 400	Sierra Andersen 1200
Serial #	577274015	262	509-S	1565
Property #	0016213	E000217	N/A	N/A
Last Calibration Date	4/15/10	4/20/10	4/16/10	2/10/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Gravimetric
Start date	5/2001	5/2001	5/2001	5/2001
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.4	4.4	4.4	2.4
Distance from supporting structure	1.8	1.8	1.8	1.4
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	30	30	30	30
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.0	7.1	6.6	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A

Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	Carbonyl-PAMS	VOC-PAMS	VOC-PAMS	BAM
Monitor obj	Highest Concentration	Highest Concentration	Highest Concentration	Population Oriented
Spatial scale	Urban Scale	Urban Scale	Urban Scale	Neighborhood Scale
Sampling method	Atec Model 8000	RM Environmental Systems Inc. 910A	RM Environmental Systems Inc. 910A & Xontec 912	Met One BAM 1020
Serial #	25210	005097	005098 / 3068	3169
Property #	E000298	E000156	E000157 / 0013086	ARB 20021149
Last Calibration Date	4/10	4/10	4/10	3/14/10
Analysis method	TO-15 PAMS	TO-15 PAMS	TO-15 PAMS	Beta attenuation
Start date	5/2001	5/2001	5/2001	10/23/09
Operation schedule	1:6 / 1:3	1:6 / 1:3	1:6 / 1:3	1:1
Sampling season	Seasonal	Seasonal	Seasonal	All year
Probe height	4.4	4.4	4.4	5.4
Distance from supporting structure	1.8	1.8	1.8	1.8
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	16	16	16	16
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	SS	SS	SS	SS
Residence time				
Will there be changes within the next 18 months?	No	No	No	No

Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A

Santa Clarita-Placerita
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Santa Clarita-Placerita
Site Photos (Cont.)

Looking at the probe from the North.

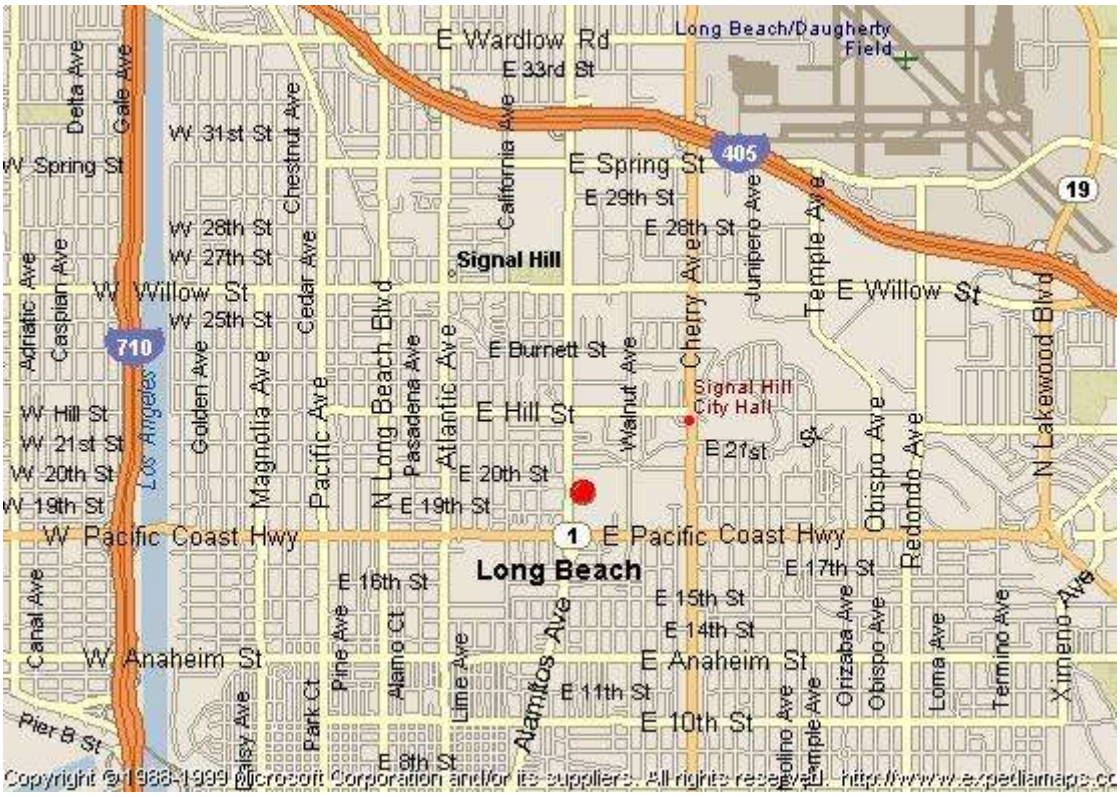
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

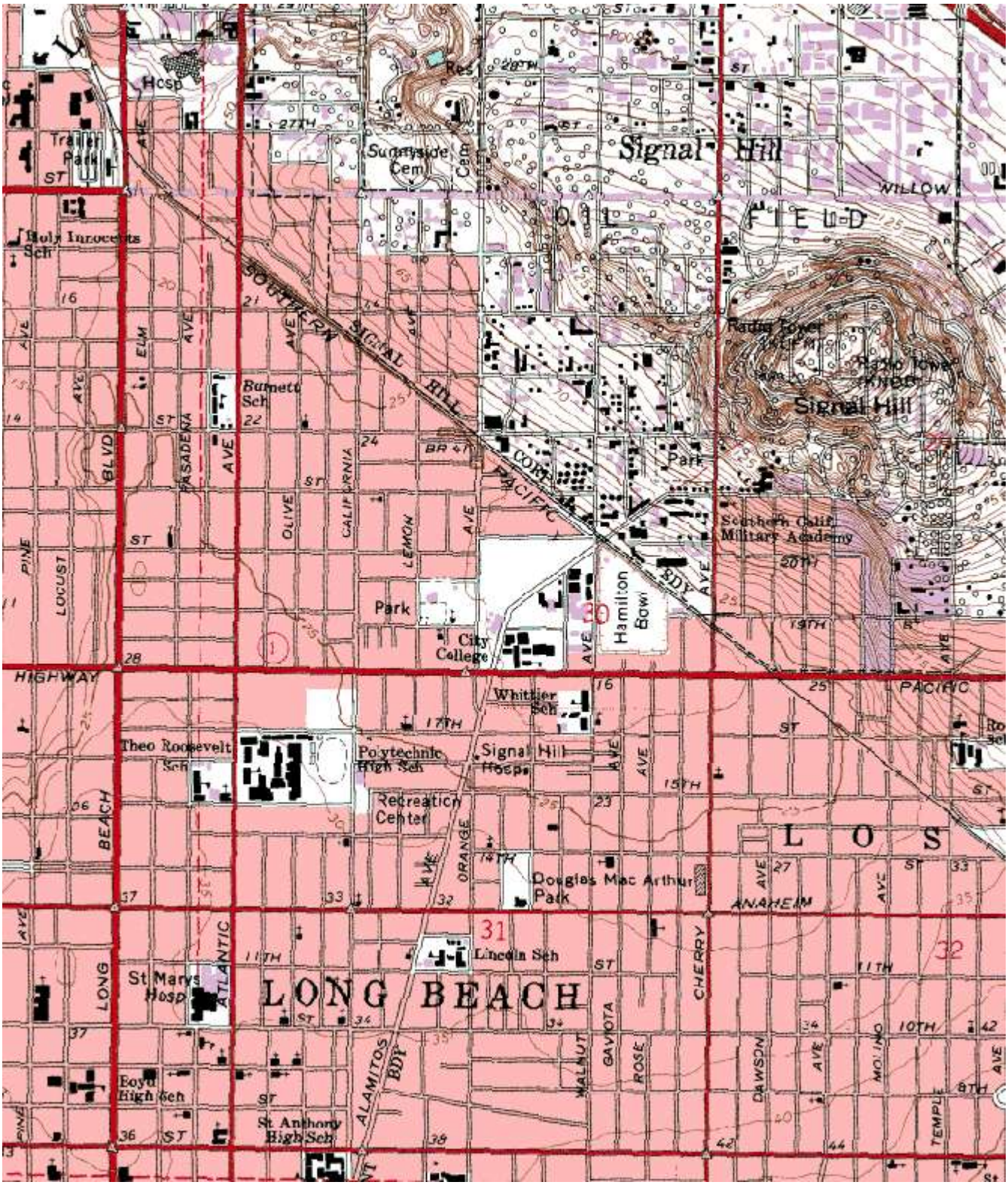
Quality Assurance
Site Survey Report for Long Beach (South)

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374004	70110	06/03	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
1305 E. Pacific Coast Hwy Long Beach, CA 90806	Los Angeles	South Coast	33° 47' 32"	118° 10' 30"	6


Hosp
Trailer Park
Sunnyside Cem
Signal Hill
WILLOW
FIELD
Holy Innocents Sch
SOUTHERN PAC
SIGNAL HILL
Radio Tower
Radio Tower
Signal Hill
Burnett Sch
Park
CORP
PACIFIC
Southern Calif. Military Academy
Park
City College
Hamilton Bowl
HIGHWAY
Whittier Sch
PACIFIC
Theo Roosevelt Sch
Polytechnic High Sch
Signal Hill Hosp
Recreation Center
Douglas Mac Arthur Park
ANAHEIM
Lincoln Sch
St Marys Hosp
LONG BEACH
Boyd High Sch
St Anthony High Sch
ALAMITOS BDY

Site Survey Report

Siting Information

Site Name: Long Beach (South)	Date: 4/21/10	State Code: 70110	AIRS Number: 060374004
Address: 1305 E. Pacific Coast Hwy Long Beach, CA 90806	Latitude: 33° 47' 32"	Longitude: 118° 10' 30"	Elevation (m): 6
	Senior AQIS: Albert Dietrich	Site Technician: Charlie Decker	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: No	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 86 meters	Region: Level	Probe Last Cleaned: N/A
	Count (Veh/Day): 10000	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: Yes	Description: None	Agency: SCAQMD	Autocalibrator Type: N/A
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Long Beach (South)			
AQS ID (AIRS #)	060374004			
GIS coordinates	Latitude: 33° 47’ 32” Longitude: 118° 10’ 30”			
Location	Long Beach Community College			
Address	1305 E Pacific Coast Hwy, Long Beach, CA 90806			
County	Los Angeles			
Dist. to road	86 meters			
Traffic count	10,000 veh/day			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	PM10 -SSI	TSP (Lead)	BAM-PM2.5	PM2.5 RAAS
Monitor obj	Highest Concentration	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Andersen 1200	Tisch TE 300-310	MetOne BAM 1020	Andersen RAAS 2.5-3.0
Serial #	N/A	N/A	E4236	348
Property #	2726	1555	164834	E000012
Last Calibration Date	11/06/09	11/06/09	3/30/10	01/06/10
Analysis method	Gravimetric	Inductively Coupled Argon Plasma-Mass Spectrometry	Beta attenuation	Gravimetric
Start date	06/20/03	06/20/03	06/20/03	06/20/03
Operation schedule	1:6	1:6	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	2.44	2.11	2.64	2.84
Distance from supporting structure	1.5	1.12	2.64	1.83
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	N/A	N/A	N/A	N/A
Residence time	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	Yes

Frequency of flow rate verification for manual PM samplers audit	Monthly	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	Monthly	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A

Long Beach (South)
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Long Beach (South)
Site Photos (Cont.)

Looking at the probe from the North.

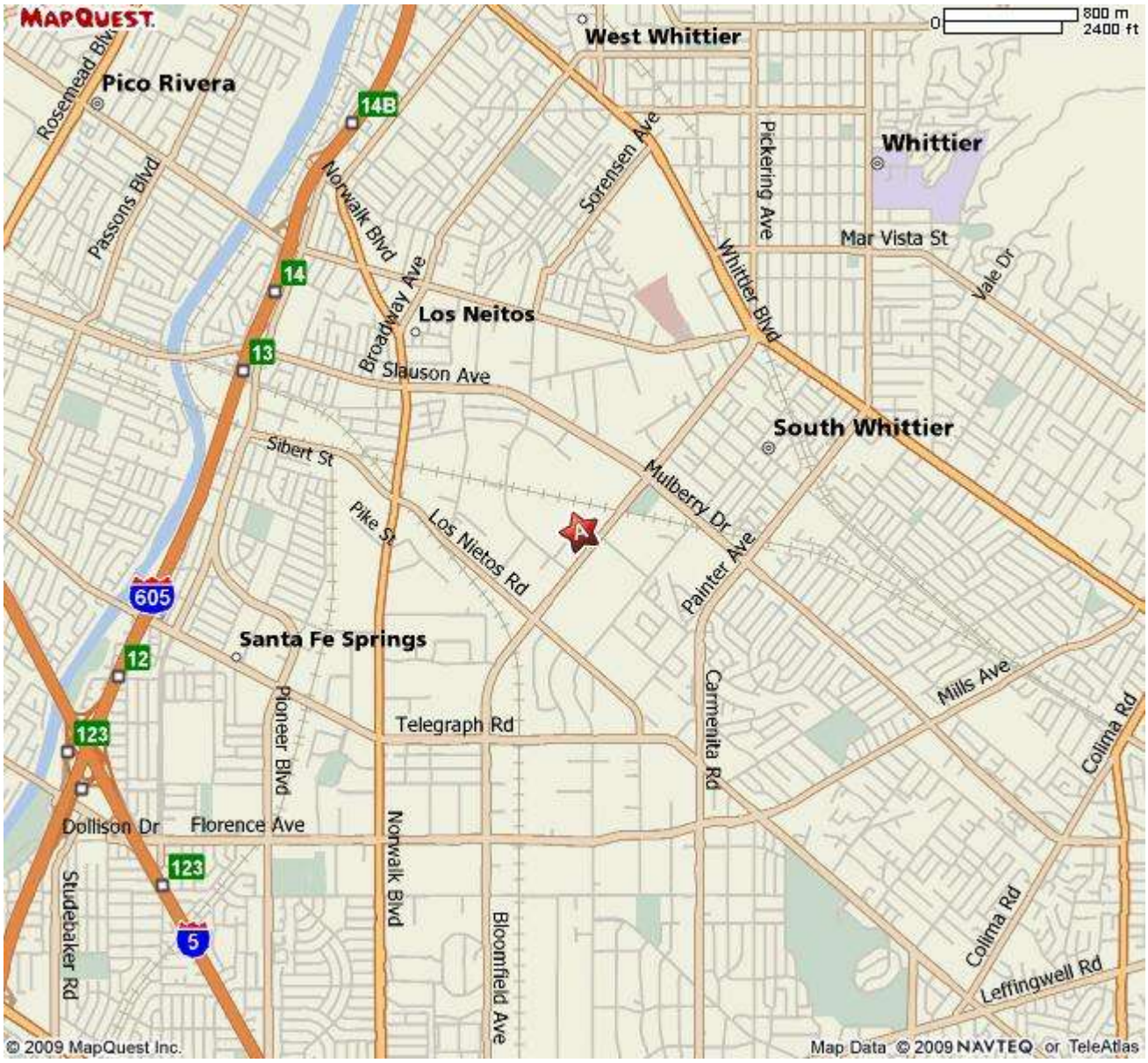
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

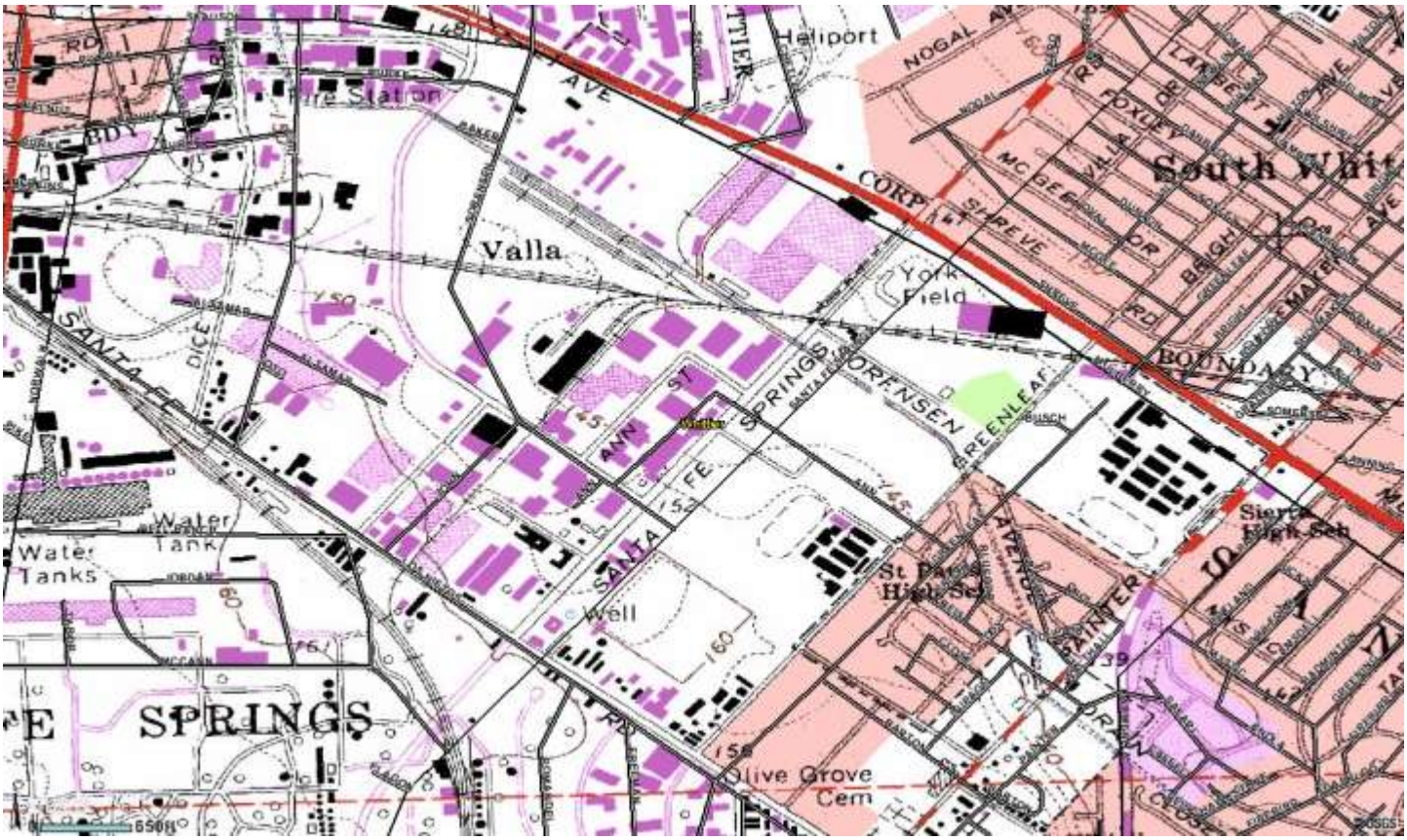
Quality Assurance
Site Survey Report for Uddeholm (Quemetco)

Last updated April 13, 2009



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371403	NA	11/26/92	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
9440 Ann St. Santa Fe Springs, CA 90670	Los Angeles	South Coast	33° 57' 17"	-118° 03' 19"	44 m


Valla
SPRINGS
Water Tanks
Well
Olive Grove Cem
Heliport
Fire Station
York Field
South Whitt
BOUNDARY
SANTA FE
S. ANN ST
SPRINGS
ORFNSEN
GREENLEAF
NOGAL AVE
CORP LT
SHREVE
FOXLEY
MC GEE
DICE
Sierra High Sch
St Paul's High Sch

Site Survey Report

Siting Information

Site Name: Uddeholm (Trojan Battery)	Date: 4/13/10	State Code: NA	AIRS Number: 060371403
Address: 9440 Ann St. Santa Fe Springs, CA 90670	Latitude: 33° 57' 17"	Longitude: 118° 03' 19"	Elevation (m): 44
	Senior AQIS: Albert Dietrich	Site Technician: Tuong Mac	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: No	Description: Suburban	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance: 26	Region: Level	Probe Last Cleaned Date: N/A
	Count (Veh/Day): 30000	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Lead Smelter	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 38	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: SW	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Uddelholm (Trojan Battery)			
AQS ID (AIRS #)	060371403			
GIS coordinates	Latitude: 33° 57’ 17” Longitude: 118° 03' 19"			
Location	Parking lot			
Address	9440 Ann St. Santa Fe Springs, CA 90670			
County	Los Angeles			
Dist. to road	26			
Traffic count	30000			
Groundcover	Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	TSP			
Monitor obj	Source Impact			
Spatial scale	Microscale			
Sampling method	GMW TSP			
Serial #	NA			
Property #	4903			
Last Calibration Date	12/30/08			
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry			
Start date	11/26/92			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			

Frequency of flow rate verification for manual PM samplers audit	N/A			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			
Last Annual Performance Evaluation (gaseous)	N/A			
Last two semi-annual flow rate audits for PM monitors	N/A			

Trojan Battery - UDDH
Site Photos

Looking North from the probe

Looking East from the probe.

Looking South toward the probe.

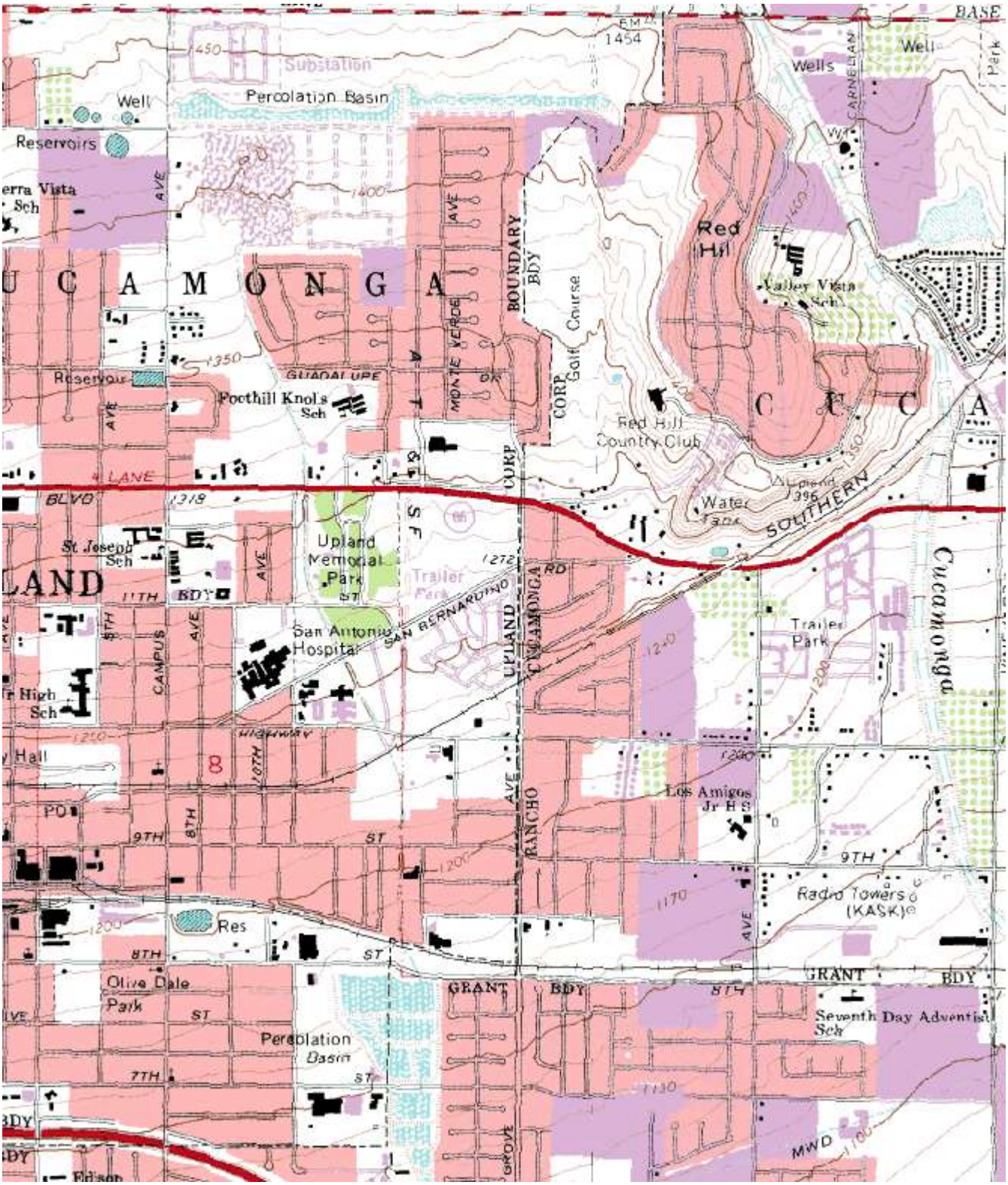
Looking West from the probe

Quality Assurance
Site Survey Report for Upland

Last updated April, 2010

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060711004	36175	03/73	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
1350 San Bernardino Rd Upland, CA 91786	San Bernardino	South Coast	34° 06' 13"	117° 37' 44"	385


Substation
Well
Percolation Basin
Reservoirs
Wells
Red Hill
Valley Vista Sch
Reservoir
Foothill Knols Sch
Red Hill Country Club
Golf Course
BOUNDARY BDY
CORP
SOUTHERN
Upland Memorial Park
St Joseph Sch
San Antonio Hospital
SAN BERNARDINO
UPLAND
CUCAMONGA
RANCHO
Trailer Park
Los Amigos Jr H S
Radio Towers (KASK)
Olive Dale Park
Percolation Basin
Res
GRANT
BDY
Seventh Day Adventist Sch
MWD
Edison
PD
CAMPUS
HIGHWAY
9TH
8TH
7TH
11TH
10TH
BLVD
AVE
ST
RD

Site Survey Report

Siting Information

Site Name: Upland	Date: 4/21/10	State Code: 36175	AIRS Number: 060711004
Address: 1350 San Bernardino Rd, #62 Upland, CA 91786	Latitude: 34° 06' 13"	Longitude: 117° 37' 44"	Elevation (m): 385
	Senior AQIS: Keith Brown	Site Technician: Jeff Baerenwald	Site Phone: (909) 982-8214
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: N
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 80 meters	Region: Valley	Probe Last Cleaned: 5/10
	Count (Veh/Day): 10,000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Gravel	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Upland			
AQS ID (AIRS #)	060711004			
GIS coordinates	Latitude: 34° 06’ 13” Longitude: 117° 37’ 44”			
Location	Trailer Park			
Address	1350 San Bernardino Rd, #62, Upland, CA 91786			
County	San Bernardino			
Dist. to road	80 meters			
Traffic count	10,000 veh/day			
Groundcover	Gravel			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	BAM PM 10
Monitor obj	Population Oriented	Population Oriented	Highest Concentration	Population Oriented
Spatial scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA360	Thermo Scientific 42 i	API/Teledyne 400E	Met One 1020
Serial #	577583094	CM08360048	511-S	F4427
Property #	16477	0016732		
Last Calibration Date	12/11/09	02/05/10	12/10/09	4/2/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Beta Attenuation
Start date	3/73	3/73	3/73	4/2/10
Operation schedule	1:1	1:1	1:1	1:1
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.7	4.7	4.7	5.1
Distance from supporting structure	1.3	1.3	1.3	1.7
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	SS
Residence time	8.4	8.7	9.5	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for	N/A	N/A	N/A	Monthly

automated PM				
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A

Pollutant	BAM PM2.5	TSP-Particulates		
Monitor obj	Population Oriented	Population Oriented		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	Met One 1020	GMW 1200		
Serial #	A1147	4957		
Property #	0016565	N/A		
Last Calibration Date	4/2/10	12/29/09		
Analysis method	Beta Attenuation	Inductively Coupled Argon Plasma-Mass Spectrometry		
Start date		9/90		
Operation schedule	1:1	1:6 / 1:3		
Sampling season	1:1	All Year		
Probe height	All Year	2.9		
Distance from supporting structure	1.7	2.0		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	N/A	N/A		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	SS	SS		
Residence time	N/A	N/A		
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A	N/A		
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers audit	Bi – weekly	N/A		
Frequency of one-point QC check (gaseous)	N/A	N/A		

Upland
Site Photos

Looking North from the probe.

Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Upland
Site Photos (Cont.)

Looking at the probe from the North.

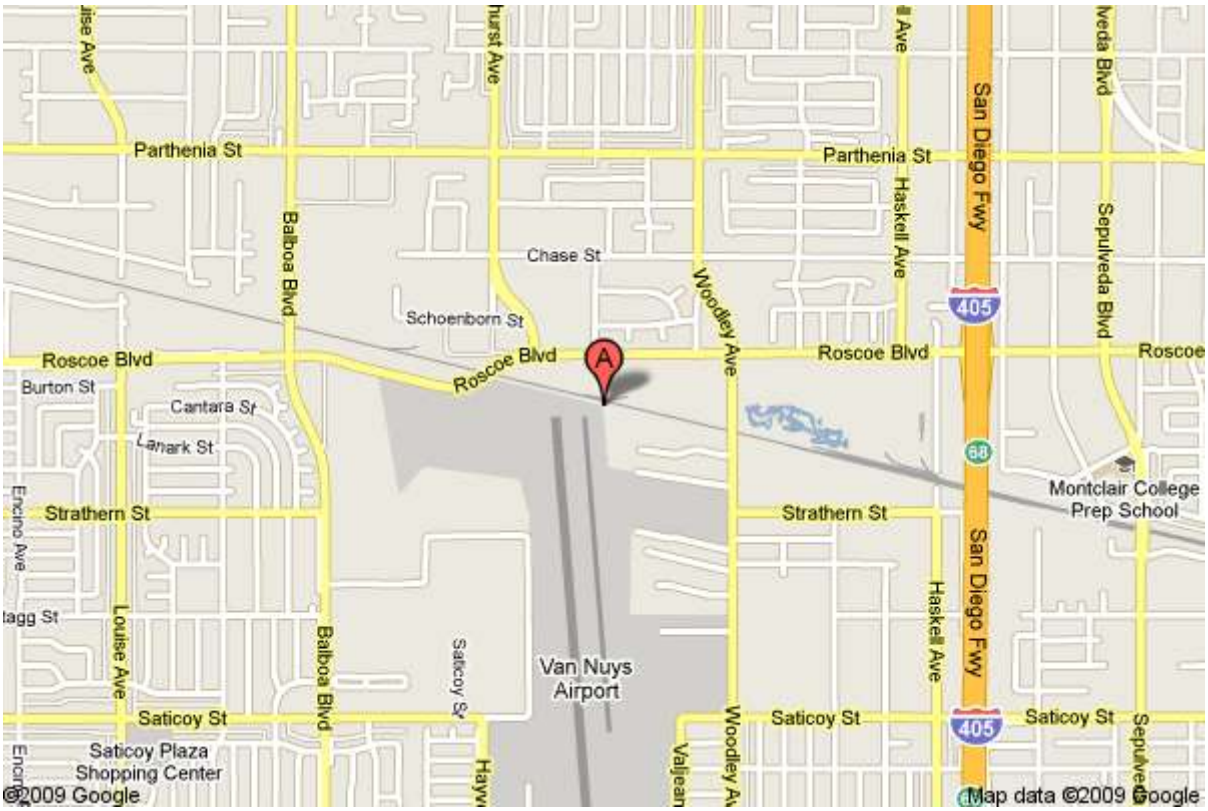
Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.

Quality Assurance
Site Survey Report for Van Nuys Airport

Last updated March 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371402	70041	1/1/10	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
16345 Raymer (Lot A) Van Nuys CA, 91406-1212	Los Angeles	South Coast	34° 13' 10"	-118° 29' 21"	244 m


Lorne Elementary School
Stagg Elementary School
White Oak Covenant Church
Sherman Oaks Galleria
Amanda Elementary School
Jesse Owens Park
Gault Elementary School
Mulholland Middle School
Lemay Elementary School
Birmingham General Hospital (Historical)
Birmingham Senior High School
Sepulveda Flood Control Basin
Lake Balboa Park
Van Nuys Airport
Los Angeles Fire Department Station Number 96
Church of Jesus Christ of Latter Day Saints
Cohasset Elementary School
Saint Bridget of Sweden School
Saint Bridget of Sweden Church
Saint Michael Antiochian Orthodox Church
Los Angeles Fire Department Station Number 100
Van Nuys Golf Course
Nike Site LA-96 (Historical)
Monterey College Prep School
Raytheon
Valley Mission Church
Valerie Elementary School
Van Nuys Post Office
Saint Andrews Lutheran Church
Sassafr Elementary School
Valley Presbyterian Hospital
Columbus Avenue Elementary School
Sylvan Park Elementary School
Delano Park
Exit 96
Exit 95
VAN NUYS AIRPORT
SOUTHERN PACIFIC
SAN FERNANDO VALLEY
0.2mi

Site Survey Report

Siting Information

Site Name: Van Nuys A.P.	Date: 03/02/10	State Code: NA	AIRS Number: 060371402
Address: 16345 Raymer (Lot A) Van Nuys CA, 91406-1212	Latitude: 34° 13' 10"	Longitude: -118° 29' 21"	Elevation (m): 244 m
	Senior AQIS: Albert Dietrich	Site Technician: Norm Broellos	Site Phone: N/A
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: NNW
Controlled: No	Description: Commercial	Site: Level	Arc Air Flow (Deg): 360
Recorded: No	Distance: 520m	Region: Level	Probe Last Cleaned Date: N/A
	Count 30,882	**QA Manual**	Manifold Clean: N/A
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: N/A
Located With Instruments: No	Description: Airplane	Agency: South Coast AQMD	Autocalibrator Type: N/A
	Distance: 30m	Urbanization: Urban	Site Survey Complete: Yes
	Direction: South West	Ground Cover: Dirt / Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Van Nuys Airport			
AQS ID (AIRS #)	060371402			
GIS coordinates	Latitude: 34° 13' 10"' Longitude: -118° 29' 21"			
Location	Commercial			
Address	16345 Raymer (Lot A) Van Nuys CA, 91406-1212			
County	Los Angeles			
Dist. to road	520m (Roscoe Blvd \ Woodley Ave.)			
Traffic count	30,882			
Groundcover	Dirt/Asphalt			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana			
Pollutant	TSP			
Monitor obj	Source Impact			
Spatial scale	Microscale			
Sampling method	GMW TSP			
Serial #	1561			
Property #	53354			
Last Calibration Date	1/1/10			
Analysis method	Inductively Coupled Argon Plasma-Mass Spectrometry			
Start date	1/1/10			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.6			
Distance from supporting structure	N/A			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	N/A			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			
Residence time	N/A			
Will there be changes within the next 18 months?	No			
Is it suitable for comparison against the annual PM2.5?	N/A			
Frequency of flow rate verification for manual PM samplers audit	N/A			

Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			

Van Nuys Airport
Site Photos

Looking North toward probe

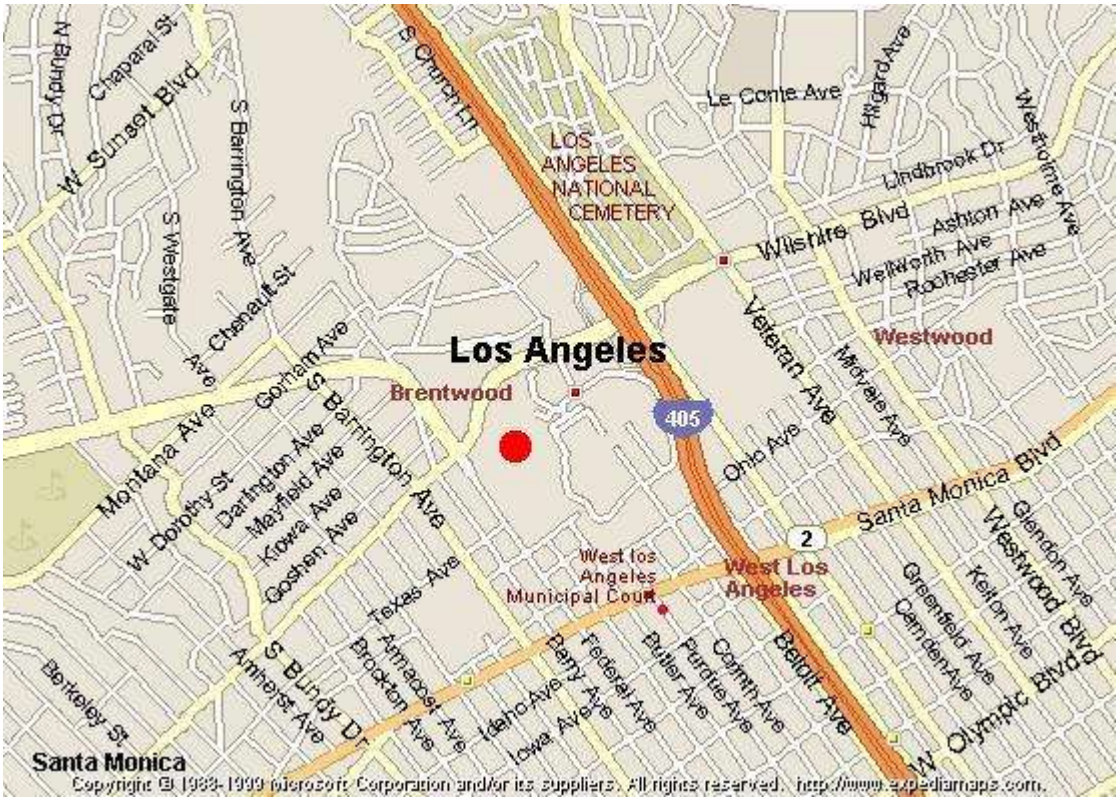
Looking East from the probe.

Looking South toward the probe.

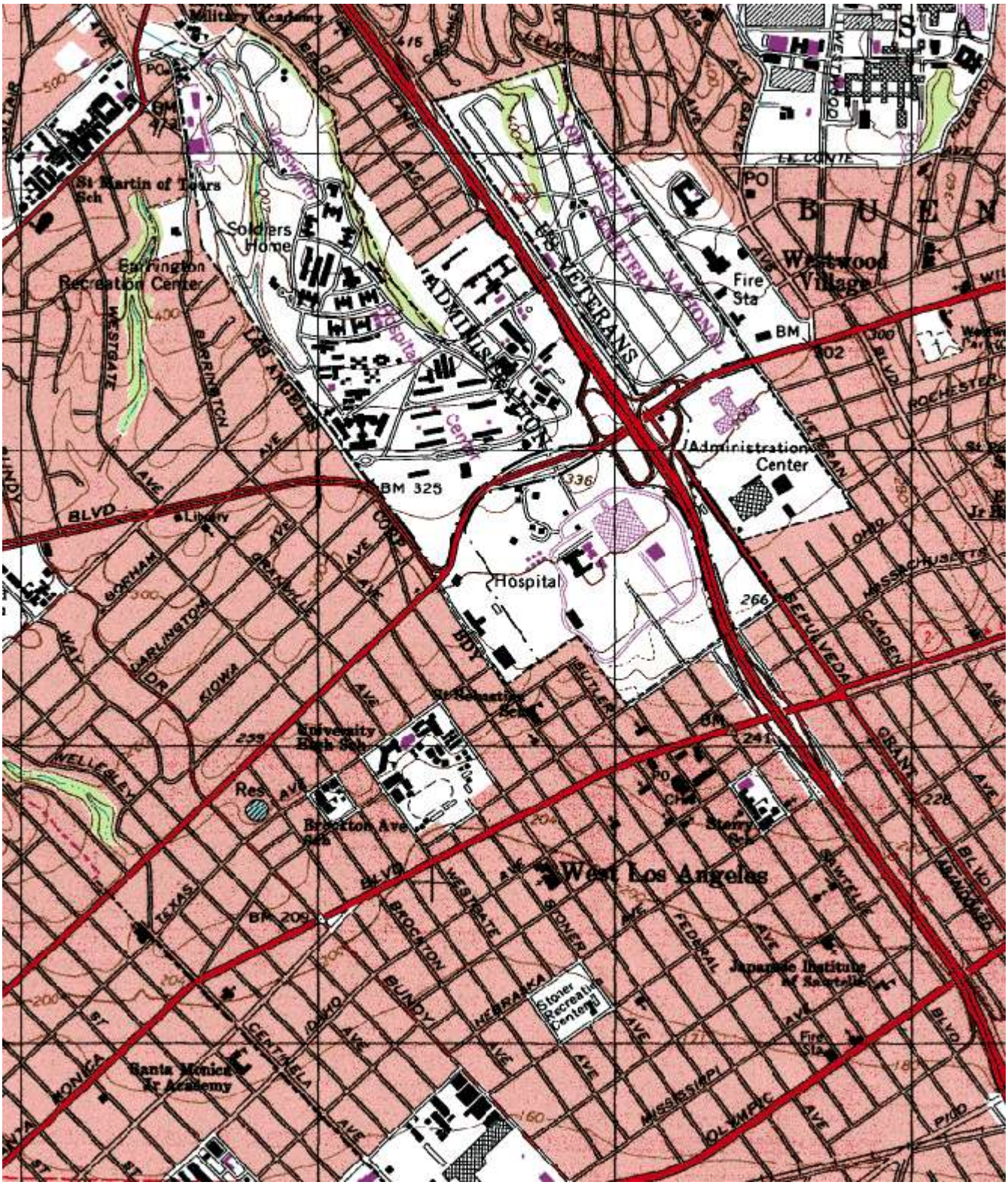
Looking West toward the probe

Quality Assurance
Site Survey Report for Los Angeles-VA Hospital

Last updated April, 2010



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060370113	70091	05/84	South Coast AQMD (061)		
Site Address	**County**	**Air Basin**	**Latitude**	**Longitude**	**Elevation**
Wilsire Blvd & Sawtelle Blvd Los Angeles, CA 90025	Los Angeles	South Coast	34° 03' 03"	118° 27' 23"	92



Site Survey Report

Siting Information

Site Name: Los Angeles-VA Hospital	Date: 4/21/10	State Code: 70091	AIRS Number: 060370113
Address: Wilshire Blvd & Sawtelle Blvd Los Angeles, CA 90025	Latitude: 34° 03' 03"	Longitude: 118° 27' 23"	Elevation (m): 92
	Senior AQIS: Albert Dietrich	Site Technician: Paul Mayo	Site Phone: (310) 478-1410
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: SW
Controlled: Yes	Description: Urban	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: No	Distance: 23 meters	Region: Level	Probe Last Cleaned: 4/10
	Count (Veh/Day): 10000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: SCAQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Urban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Dirt/Grass	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	Los Angeles-VA Hospital			
AQS ID (AIRS #)	060370113			
GIS coordinates	Latitude: 34° 03' 03" Longitude: 118° 27' 22"			
Location	Los Angeles Veterans Administration Hospital Grounds			
Address	Wilshire Blvd & Sawtelle Blvd, Los Angeles, CA 90025			
County	Los Angeles			
Dist. to road	15 meters			
Traffic count	1,000 veh/day			
Groundcover	Dirt/Grass			
Representative Area	31100-Los Angeles-Long Beach-Santa Ana, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	TSP
Monitor obj	Population Oriented	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Neighborhood Scale	Middle Scale	Middle Scale	Neighborhood Scale
Sampling method	Horiba APMA360	Thermo 42 i	Teledyne 400E	GMW SSI
Serial #	41346760053	CM08360055	521-S	
Property #	0016509	16738	N/A	
Last Calibration Date	12/15/09	3/9/10	12/15/09	2/12/10
Analysis method	Non dispersive infra red	Chemiluminescence	UV Photometric	Inductively Coupled Argon Plasma-Mass Spectrometry
Start date	05/84	05/84	05/84	5/84
Operation schedule	1:1	1:1	1:1	1:6
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.2	4.2	4.2	3
Distance from supporting structure	1.7	1.7	1.7	1
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	23	23	23	23
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	6.9	7.9	7.5	N/A
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	No
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Montly

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A