

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ANNUAL AIR QUALITY MONITORING NETWORK PLAN

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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 (SCAQMD). It includes a review of actions taken during the 2015-2016 fiscal year and plans for action in the year ahead. This plan addresses the requirement for an annual network plan as listed in Title 40, Part 58, Section 10 of the Code of Federal Regulations (40 CFR § 58.10). Regulations require the report be submitted to the U.S. Environmental Protection Agency (EPA) by July 1 of each year after a 30 day public comment period. All monitors meet the requirement of appendices A, B, C, D, and E as required in 40 CFR § 58.10(a)(1) where applicable.

The SCAQMD 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. During the review, State and Local Air Monitoring Stations (SLAMS) designations, site type, and spatial scales of representativeness were assigned to the criteria pollutants monitored at each site. Since that time, the EPA Region IX and CARB staff visited selected sites to confirm compliance with applicable siting criteria and related requirements. The most recent site visits occurred in 2013 to conduct a comprehensive Technical System Audit (TSA) of the ambient air monitoring network. Each year, SCAQMD 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 network changes are made in consultation with the EPA and CARB. When relocation of monitoring sites is 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, a draft plan was made available for public inspection and comment beginning May 25, 2016 for a period of 30 days prior to submission of the final plan to EPA. Hard copies of the final document are made available by July 1, 2016 at the SCAQMD's Public Information Desk in Diamond Bar, CA. The Final document is also available on the SCAQMD website as of July 1, 2016 in the drop down menu under the "Library", "Clean Air Plans" and "Air Monitoring Network Plan." (http://www.aqmd.gov/home/library/clean-air-plans/monitoring-network-plan). No public comments were received, however if any were received they would be included in the final plan submitted to EPA to fulfill Federal regulatory requirements.

Network Design

The SCAQMD operates 38 permanent monitoring stations and 5 single-pollutant source impact Lead (Pb) air monitoring sites in the 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 sites were added as part of the near road monitoring network at Ontario Etiwanda and Route 60; Long Beach Route 710 and Anaheim Route 5. The Mecca site, which monitors windblown particulates and potential emissions from the Salton Sea, was established as a permanent site. The newest source impact Pb sites were added in January 2010 as required by EPA regulation. During 2014, the Burbank, Ontario Fire Station, and Riverside Magnolia sites were discontinued due to termination of leases and/or safety

concerns. Table 1 provides a list of monitoring locations, the EPA AQS site codes, and the pollutants measured at each site. Table 2 provides the spatial scale and the site type for each monitor at all sites.

Table 3 describes the monitoring purpose for the monitors at each site. Table 4 describes the site type, spatial scale and monitoring purpose for continuous particulate analyzers at each site. A requirement of the annual network plan, the *monitoring purpose* is the reason why a certain pollutant is being measured at a certain site.

A list and description of monitoring purposes are 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 can be used to assess the 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 site type and monitoring purposes as defined by EPA and given in Tables 2, 3, and 4.

TABLE 1. List of Monitoring Sites

	Location	AQS No.	Pollutants Monitored	Start Date
1	Anaheim	060590007	CO,NO2,O3,PM10,PM2.5	08/01
2	Anaheim Route 5 Near Road	060590008	CO, NO2	01/14
3	ATSF (Exide)	060371406	Pb	01/99
4	Azusa	060370002	CO,NO2,O3,PM10,PM2.5	01/57
5	Banning Airport	060650012	NO2,O3,PM10, PM2.5	04/97
6	Big Bear	060718001	PM2.5	02/99
7	Closet World (Quemetco)	060371404	Pb	10/08
8	Compton	060371302	CO,NO2,O3,Pb,PM2.5	01/04
9	Costa Mesa	060591003	CO,NO2,SO2,O3	11/89
10	Crestline	060710005	O3,PM10	10/73
11	Fontana	060712002	CO,NO2,SO2,O3,PM10,PM2.5,SO4	08/81
12	Glendora	060370016	CO,NO2,O3,PM2.5,PM10	08/80
13	Indio	060652002	O3,PM10,PM2.5	01/83
14	La Habra	060595001	CO,NO2,O3	08/60
15	Lake Elsinore	060659001	CO,NO2,O3,PM2.5,PM10	06/87
16	LAX Hastings	060375005	CO,NO2,O3,PM10,Pb,SO4	04/04
17	Long Beach (Hudson)	060374006	CO, NO2,SO2,O3,PM10	01/10
18	Long Beach Route 710 Near Road	060374008	NO2, PM2.5	01/15
19	Long Beach (North)	060374002	PM2.5	10/62
20	Long Beach (South)	060374004	PM10,Pb,PM2.5,SO4	06/03
21	Los Angeles (Main St.)	060371103	CO,NO2,SO2,O3,PM10,Pb,PM2.5,SO4	09/79
22	Mecca (Saul Martinez)	060652005	PM10	01/11
23	Mira Loma (Van Buren)	060658005	CO,NO2,O3,PM10,PM2.5	11/05
24	Mission Viejo	060592022	CO,O3,PM10,PM2.5	06/99
25	Norco	060650003	PM10	12/80
26	Ontario Etiwanda Near Road	060710026	CO, NO2	06/14
27	Ontario Route 60 Near Road	060710027	NO2, PM2.5	01/15
28	Palm Springs	060655001	CO,NO2,O3,PM10,PM2.5	04/71

TABLE 1. (cont) List of Monitoring Sites

	Location	AQS No.	Pollutants Monitored	Start Date
29	Pasadena	060372005	CO, NO2, O3, PM2.5	04/82
30	Perris	060656001	O3,PM10	05/73
31	Pico Rivera #2	060371602	CO,NO2,O3,Pb,PM2.5,SO4,PM10	09/05
32	Pomona	060371701	CO,NO2,O3	06/65
33	Redlands	060714003	O3,PM10	09/86
34	Rehrig (Exide)	060371405	Pb	11/07
35	Reseda	060371201	CO,NO2,O3,PM2.5	03/65
36	Rubidoux	060658001	CO,NO2,SO2,O3,PM10,Pb,PM2.5,SO4	09/72
37	San Bernardino	060719004	CO,NO2,O3,PM10,Pb,PM2.5	05/86
38	Santa Clarita	060376012	CO,NO2,O3,PM10,PM2.5	05/01
39	SA Recycling		Pb	
40	Temecula	060650016	O3, PM2.5	06/10
41	Uddelholm (Trojan Battery)	060371403	Pb	11/92
42	Upland	060711004	CO,NO2,O3,Pb,PM2.5,PM10,SO4	03/73
43	West Los Angeles	060370113	CO,NO2,O3	05/84

TABLE 2. FRM Criteria Pollutant Spatial Scales and Site Type

SPATIAL SCALE SITE TYPE

MI – Microscale
MS – Middle Scale
NS – Neighborhood Scale
US – Urban Scale
MI – Highest Concentration
PE – Population Exposure
IM – Source Oriented (Impact)
BK – General Background

	Location	СО	NO2	SO2	03	Manual PM10	Manual PM2.5	Pb
1	Anaheim	NS/PE	US/PE		NS/PE	NS/PE	NS/PE	
2	Anaheim Route 5 Near	MI/HC	MI/HC		115/12	110/12	TIGITE	
	Road							
3	ATSF (Exide)							MI/IM
4	Azusa	NS/PE	US/PE		US/HC	NS/PE	NS/PE	
5	Banning Airport		NS/PE		NS/PE	NS/PE		
6	Big Bear						NS/PE	
7	Closet World (Quemetco)							MI/IM
8	Compton	MS/HC	MS/PE		NS/PE		NS/PE	NS/PE
9	Costa Mesa	NS/PE	NS/PE	NS/PE	NS/PE			
10	Crestline				NS/HC	NS/PE		
11	Fontana	NS/PE	US/PE	NS/PE	US/PE	NS/HC/PE	NS/PE	
12	Glendora	NS/PE	NS/PE		NS/HC			
13	Indio				NS/PE	NS/HC	NS/PE	
14	La Habra	NS/PE	US/PE		NS/PE			
15	Lake Elsinore	NS/PE	NS/PE		NS/PE			
16	LAX Hastings	MS/PE/BK	MS/PE/BK	NS/PE/BK	NS/PE/BK	NS/PE/BK		NS/PE/BK
17	Long Beach (Hudson)	NS/HC	NS/PE	NS/HC	NS/PE	NS/HC		
18	Long Beach (North)						NS/HC	
19	Long Beach Route 710 Near Road		MI/HC				MI/HC	
20	Los Angeles (Main St.)	NS/PE	NS/HC	NS/PE	NS/PE	NS/PE	NS/HC	NS/PE
21	Mecca (Saul Martinez)	TIGITE	115/110	115/12	115/12	NS/PE	118/110	TIBITE
22	Mira Loma (Van Buren)	NS/PE	NS/PE		NS/PE	NS/HC	NS/HC	
23	Mission Viejo	NS/PE	110/12		NS/PE	NS/PE	NS/PE	
24	Norco	TIGITE			115/12	NS/PE	118/12	
25	Ontario Etiwanda Near	MI/HC	MI/HC			1,0,12		
23	Road	1411/110	1411,110					
26	Ontario Route 60 Near Road		MI/HC				MI/HC	
27	Palm Springs	NS/PE	NS/PE		NS/PE	NS/PE	NS/PE	
28	Pasadena	MS/PE	MS/HC		NS/PE	1.2,2	NS/PE	
29	Perris				NS/PE	NS/PE	- 1.2.1	
30	Pico Rivera #2	NS/PE	NS/HC		NS/PE		NS/PE	NS/PE
31	Pomona	MI/PE	MS/PE		NS/PE			
32	Redlands				NS/PE/HC	NS/PE		
33	Rehrig (Exide)							MI/IM
34	Reseda	NS/PE	US/PE		US/PE		NS/PE	
35	Rubidoux	NS/PE	US/PE	NS/PE	US/HC	NS/HC	NS/HC	NS/PE
36	San Bernardino	MS/PE	US/PE		NS/HC	NS/HC	NS/PE	NS/PE
37	Santa Clarita	NS/PE	NS/PE		US/HC	NS/PE		
38	South Long Beach					NS/HC	NS/HC	NS/HC
39	SA Recycling							HC/IM
40	Temecula				NS/HC			
41	Uddelholm (Trojan Battery)							MI/IM
42	Upland	NS/PE	NS/PE		NS/PE			NS/PE
43	West Los Angeles	NS/PE	MS/HC		NS/PE			

TABLE 3. FRM Criteria Pollutant Monitoring Purposes

MONITORING PURPOSE

 $\begin{array}{ll} BK-Background & RC-Representative \ Concentration \\ HC-High \ Concentration & RM-Real-Time \ Reporting/Modeling \end{array}$

TP – Pollutant Transport
EX – Population Exposure
SO – Source Impact

TR – Trend Analysis
CP – Site Comparisons
CO - Collocated

	Location	СО	NO2	SO2	03	Manual PM10	Manual PM2.5	Pb
1	Anaheim	TR	TR/RC		TR	TR/RC	TR/EX	
2	Anaheim Route 5 Near Road	SO/HC	SO/HC					
3	ATSF (Exide)							SO
4	Azusa	TR	TR/RC		TR	TR	TR/EX	
5	Banning Airport		TP/RC		TP	TP		
6	Big Bear						EX/SO/TP	
7	Closet World (Quemetco)							SO
8	Compton	TR/HC	TR/RC		TR/RC		EX/RC	EX
9	Costa Mesa	RC	TR/RC	TR	RC			
10	Crestline				HC	TP/RC		
11	Fontana	RC	TP/RC	TR	RC	НС	EX/TP	
12	Glendora	RC	TR/RC		HC			
13	Indio				TP	HC/CO	TP/EX	
14	La Habra	RC	TR/RC		RC			
15	Lake Elsinore	TP/RC	TP/RC		TP/RC			
16	LAX Hastings	BK	BK	BK	BK	BK		BK
17	Long Beach (Hudson)	TR	TR/RC	TR/HC	TR	TR/RC/HC		
18	Long Beach (North)						EX/HC	
19	Long Beach Route 710 Near		COAIC				CO/HC	
	Road		SO/HC				SO/HC	
20	Los Angeles (Main St.)	SO/RC	SO/HC	TR	TR/RC	TR/RC/CO	EX/HC/CO	EX/CO
21	Mecca (Saul Martinez)					EX/RC		
22	Mira Loma (Van Buren)	TR/RC	TR/RC		TR/HC	HC	EX/HC/CO	
23	Mission Viejo	RC			TR/RC	TR/RC	EX/RC	
24	Norco					TR/RC		
25	Ontario Etiwanda Near Road	SO/HC	SO/HC					
26	Ontario Route 60 Near Road		SO/HC				SO/HC	
27	Palm Springs	TP/RC	TP/RC		TP	TP/HC	EX/TP	
28	Pasadena	TR/RC	TR/HC		TR/RC		EX/RC	
29	Perris				TP	TR		
30	Pico Rivera #2	RC	HC		EX		EX/RC	EX
31	Pomona	RC	RC		EX			
32	Redlands				TP/RC	TP/RC		
33	Rehrig (Exide)							SO/CO
34	Reseda	RC	TR/RC		EX		EX/RC	
35	Rubidoux	TR/RC	TR/RC	TR	TR/HC	TR/HC/CO	EX/TR/HC/CO	EX
36	San Bernardino	TR/RC	TP/RC		TR/HC	TR/HC	EX/TR	EX
37	Santa Clarita	RC	TP/RC		TP/HC	RC	EX/RC	
38	South Long Beach					НС	EX/SO	EX
39	SA RECYCLING							SO/HC
40	Uddelholm (Trojan Battery)							SO
41	Temecula				TR/HC			
42	Upland	RC	TR/RC		TR/RC			EX
43	West Los Angeles	RC	TR/HC		RC			

TABLE 4. Continuous PM₁₀/PM_{2.5} Monitoring Purpose, Site Type and Spatial Scales

<u>SITE TYPE</u> <u>SPATIAL SCALE</u> <u>INSTRUMENT TYPE</u>

HC – High Concentration MI – Microscale TEOM

PE – Population Exposure NS – Neighborhood Scale BAM (NON-FEM)
BK - Background BAM (FEM)

MONITORING PURPOSE

 $\begin{array}{ll} SO-Source\ Impact & RM-Real-Time\ Reporting/Modeling \\ TP-Pollutant\ Transport & SPM-Special\ Purpose\ Monitoring \end{array}$

TR – Trend Analysis CO - Collocated

Location	Co	ntinuous P	M10		Cor	ntinuous PM2.	5		PM10 – 2.5
	Type	Purpose	Site Type	Scale	Туре	Purpose	Site Type	Scale	Operational
Anaheim	BAM/FEM	RM/TR	PE	NS	BAM/FEM	RM/TR	PE	NS	
Banning Airport					BAM/NON-FEM	RM	PE	NS	
Crestline					BAM/NON-FEM	RM	PE	NS	
Glendora	BAM/FEM	RM	PE	NS	BAM/NON-FEM	RM	PE	NS	
Indio	TEOM/FEM	RM	HC	NS					
Lake Elsinore	TEOM/FEM	RM	PE	NS	BAM/NON-FEM	RM	PE	NS	
Long Beach Route 710 Near Road					BAM/FEM	RM/SO			
Los Angeles (Main St.)	BAM/FEM	RM/TR	PE	NS	BAM/FEM	RM	НС	NS	Yes
Mecca (Saul Martinez)	TEOM/FEM	RM/CO	PE	NS					
Mira Loma (Van Buren)	BAM/FEM	RM	НС	NS	BAM/FEM	RM	НС	NS	
Ontario Route 60 Near Road					BAM/FEM	RM/SO			
Palm Springs	TEOM/FEM	RM/TP	HC	NS					
Reseda					BAM/NON-FEM	RM	PE	NS	
Rubidoux	TEOM/FEM	RM/TR	НС	NS	BAM/FEM & NON-FEM	RM/TR/CO	НС	NS	Yes
San Bernardino	TEOM/FEM	RM/TR	НС	NS					
Santa Clarita					BAM/NON-FEM	RM	PE	NS	
South Long Beach					BAM/FEM	RM/SO	PE	NS	
Temecula					BAM/NON-FEM	RM	PE	NS	
Upland	BAM/FEM	RM	PE	NS	BAM/NON-FEM	RM	PE	NS	

A brief description of the criteria pollutant and program monitoring networks are provided below:

OZONE (03)

The SCAQMD operates 29 sites where O3 measurements are made as part of the Air Monitoring Network. O3 sites are spread throughout the SCAB with highest concentrations measured inland. Figure 1 in Appendix A shows the spatial distribution of these sites and Table 9 shows the minimum monitoring requirements.

PM10

Size-selective inlet manual high volume samplers are operated at 20 sites to meet the requirements for PM10 Federal Reference Method (FRM) sampling. The PM10 monitoring network contains five sites within 25% of the Federal NAAQS as shown in the 2015 Air Quality Data Table (http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year), Figure 9. The Indio, Mira Loma and Rubidoux sites are designated PM10 collocated and shown in Tables 5, 13 and 21. All PM10 FRM monitors operate on a one day in six day schedule, with the exception of Indio, Mira Loma and Rubidoux which operate on one day in three day schedule. The Anaheim and Mira Loma sites are shown as expected maximum value sites by MSA in Tables 13. Consequently, as expected maximum concentration sites, Mira Loma and Anaheim meet the minimum sampling schedule requirement shown in 40 CFR §58.12. The remaining sites meet or exceed the minimum 6 day sample schedule requirement as shown in Table 5.

PM10 continuous analyzers are operated at 11 sampling sites. These real-time devices are capable of making hourly particulate concentration measurements for real-time reporting. Table 4 describes the monitor type, site type, monitoring purpose, and spatial scale for continuous particulate analyzers. Figure 2 in Appendix A shows the spatial distribution of the sampling sites and Table 18 shows the minimum monitoring requirements. Real-time monitors, for the most part, are clustered in the high concentration areas, with three located in the Coachella Valley desert area where wind-blown crustal material has caused exceedances of the twenty-four hour standard during exceptional events. In downwind areas of the SCAB, a large fraction of particulate is formed in the atmosphere; PM10 typically reaches maximum levels in the SCAB during late summer through early winter months.

Where both 24 hour PM10 FRM samplers and PM10 FEM continuous analyzers are deployed together, they are sited as collocated for data comparison purposes where possible. FRM PM10 sampler remains the primary analyzer used for attainment purposes and continuous analyzers are designated as audit samplers unless the primary 24 hour FRM PM10 is offline then continuous FEM analyzer data can be substituted.

TABLE 5. Manual PM₁₀ FRM Monitoring Stations Assigned Site Numbers

Location	Site Code	ARB No.	AQS No.	Start Date	Schedule
Anaheim	ANAH	30178	060590007	01/03/99	1-in-6
Azusa	AZUS	70060	060370002	01/04/99	1-in-6
Banning	BNAP	33164	060650012	04/01/97	1-in-6
Crestline	CRES	36181	060710005	10/01/73	1-in-6
Fontana	FONT	36197	060712002	01/03/99	1-in-6
Indio "A"	INDI	33157	060652002	01/30/99	1-in-6
Indio "B"	INDI	33157	060652002	01/30/99	1-in-3
Indio "C" 1	INDI	33157	060652002	01/30/99	1-in-6
Los Angeles (Hastings)	LAXH	70111	060375005	04/01/04	1-in-6
Long Beach (Hudson)	HDSN	70033	060374006	01/01/10	1-in-6
Mecca (Saul Martinez)	SLMZ	33033	060652005	01/01/11	1-in-6
Los Angeles (Main St.)	CELA	70087	060371103	01/03/99	1-in-6
Mira Loma (Van Buren) "A"	MRLM	33165	060658005	11/09/05	1-in-6
Mira Loma (Van Buren) "B"	MRLM	33165	060658005	03/08/12	1-in-3
Mira Loma (Van Buren) "C" 1	MRLM	33165	060658005	03/08/12	1-in-6
Mission Viejo	MSVJ	30002	060592022	06/01/99	1-in-6
Norco	NORC	33155	060650003	12/01/80	1-in-6
Palm Springs	PLSP	33137	060655001	12/26/99	1-in-6
Perris	PERI	33149	060656001	05/01/73	1-in-6
Redlands	RDLD	36204	060714003	09/01/86	1-in-6
Rubidoux "A"	RIVR	33144	060658001	01/03/99	1-in-6
Rubidoux "B" 1	RIVR	33144	060658001	01/03/99	1-in-3
San Bernardino	SNBO	36203	060719004	01/03/99	1-in-6
Santa Clarita	SCLR	70090	060376012	05/01/01	1-in-6
South Long Beach	SLBH	70110	060374004	06/01/03	1-in-6

¹ – Run as collocated on 1-in-6 run day.

PM10-2.5

PM10-2.5 (PM Coarse) is required at NCore sites only, and is derived from the continuous BAM PM10 and PM2.5 particulate monitors at those sites. The Purpose, Site Type and Scale are similar to the continuous PM10 and PM2.5 instruments from which data is calculated. PM Coarse is currently measured at the Los Angeles (Main St.) and Rubidoux sites and is shown in Table 4.

NITROGEN DIOXIDE (NO2)

The NO2 network consists of 23 area wide, and 4 near road sites. These sites are located in areas of highest expected NO2 concentrations.

The Near Road monitoring network consists of four sites which were implemented in January of 2014 and 2015. These sites were selected based upon criteria based upon the U.S. EPA Near Road TAD, which were approved by U.S. EPA and were presented publically in a Near Road Workshop. In addition, U.S. EPA representatives visited the sites during the selection process. These sites are adjacent to the most heavily traveled roadways identified in the basin where peak hourly NO2 concentrations are expected to occur within the near-

road environment. Site selection took into consideration satisfying siting criteria, site logistics (e.g., gaining access to property and safety), and population exposure for those who live, work, play, go to school, or commute within the near-roadway environment. The spatial distribution of NO2 monitors is shown in Figure 3 in Appendix A and minimum monitoring requirements are shown in Table 14.

Additionally, the Regional Administrator identified 40 NO2 sites nationwide with a primary focus on siting these monitors in locations to protect susceptible and vulnerable populations. The Regional Administrator in collaboration with SCAQMD identified the Los Angeles (Main), Long Beach (North) and San Bernardino sites from the existing area-wide monitoring network to meet this requirement (58.10[a][5]). On September 30, 2013, the continuous monitors including NO2 were discontinued at Long Beach (North) due to termination of the lease by owner. SCAQMD, in consultation with U.S. EPA, designated Compton as a RA 40 site and formal designation is requested in Appendix D. SCAQMD is in the process of identifying a replacement monitoring location for Long Beach (North) in collaboration with Long Beach Department of Public Health and also considering potential consolidation with nearby sites. Review of 1992 through 2015 NO2 data shows the State and Federal standards for NO2 were not violated.

CARBON MONOXIDE (CO)

Area wide CO monitors measure concentrations at 23 ambient locations and 2 near road locations within the SCAQMD ambient air monitoring network. Figure 4 in Appendix A shows the spatial distribution of these sites. CO emissions, primarily from motor vehicles, show a pattern consistent with major freeway arteries. A review of data for 2015 shows State and Federal standards for CO were not exceeded.

SULFUR DIOXIDE (SO2)

SO2 monitors are located at 6 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.

On June 22, 2010 EPA strengthened the SO2 National Ambient Air Quality Standard (NAAQS). Network design requirements included new minimum requirements be determined by the Population Weighted Emissions Index (PWEI).

The PWEI shall be calculated by States for each CBSA they contain or share with another State or States for use in the implementation of or adjustment to the SO2 monitoring network. The PWEI shall be calculated by multiplying the population of each CBSA, using the most current census data or estimates, and the total amount of SO2 in tons per year emitted within the CBSA area, using an aggregate of the most recent county level emissions data available in the National Emissions Inventory (NEI) for each county in each CBSA. The resulting product shall be divided by one million, providing a PWEI value, the units of which are million persons-tons per year. For any CBSA with a calculated PWEI value equal to or greater than 1,000,000, a minimum of three SO2 monitors are required within that CBSA. For any CBSA with a calculated PWEI value equal to or greater than

100,000, but less than 1,000,000, a minimum of two SO2 monitors are required within that CBSA and for any CBSA with a calculated PWEI value equal to or greater than 5,000, but less than 100,000, a minimum of one SO2 monitor is required within that CBSA.

TABLE 6. PWEI Calculation and Minimum Required SO2

CBSA	Population Estimate	NEI SO2 Emmissions*	PWEI Value	Minimum Required SO2
31080	13,131,431	6,102.45	80,134	1
40140	4,380,878	2,307.02	10,107	1

^{*} NEI Data most recent available at https://www.epa.gov/air-emissions-inventories/national-emissions-inventory

SCAQMD exceeds the minimum requirement for SO2 monitors; the Federal standard has not been exceeded for nearly 34 years.

PARTICULATE LEAD

Total Suspected Particulate (TSP) Pb measurements are collected at 13 sites as part of the particulate network; 5 of the sites are Source Impact for Pb, and the remaining 8 sites measure ambient Pb. The Los Angeles, and Compton sites are designated as collocated for the area wide Pb monitoring network; minimum monitoring and collocation requirements are shown in Tables 17, 19 and 21. The spatial distribution of these sites is shown in Figure 6 in Appendix A.

On November 12, 2008, the EPA issued final revisions to the NAAQS for Pb. Network design requirements included 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 continues at the sites surrounding the Exide (Vernon), Quemetco (Industry), and the Trojan Battery facilities. Existing urban Pb monitoring conducted at Compton, LAX Hastings, Los Angeles (Main), Pico Rivera, Riverside Magnolia, Rubidoux, San Bernardino, South Long Beach, and Upland exceed the minimum monitoring requirements.

The final rule for Pb went into effect on January 26, 2011. In the final rule the Van Nuys Airport was no longer included on the list of airports where Pb monitoring was required, and emissions inventory showed Pb emissions less than the minimum monitoring requirement of 1.0 ton per year. Data review from the Van Nuys Airport Pb site showed no exceedances of the three month rolling average during the monitoring period. In consultation EPA the site was discontinued on June 4, 2013 based upon conditions cited in 40 CFR 58 Appendix D 4.5.

The most recent NEI data (https://www.epa.gov/air-emissions-inventories/national-emissions-inventory) as of 4/26/2016 shows no sites exceed the 1.0 tpy threshold requiring a monitoring plan:

TPY	State	County	Facility
0.8	$C\Lambda$	Los Angeles	LONG BEACH-DAUGHERTY
0.8	CA	Los Aligeles	FIELD AIRPORT
0.68	CA	Los Angeles	VAN NUYS AIRPORT
0.58	CA	Orange	JOHN WAYNE AIRPORT
0.58	CA	San Bernardino	CHINO AIRPORT

As of the end of 2015, SCAQMD is not in violation of the Pb NAAQS.

Photochemical Assessment Monitoring Stations

The Photochemical Assessment Monitoring Stations (PAMS) network was initiated in June 1994 at Pico Rivera and Upland. During 1995 sites were established 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, 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.

Although SCAQMD has used the PAMS data for trends analysis, trajectory modeling, and source emissions inventory reconciliation, SCAQMD has conducted an assessment of its PAMS program. The assessment indicated that although the existing program provides a robust data set, the measurement program can be modernized to compliment current and future U.S. EPA program requirements, strengthening the connection between the PAMS measurements objectives for better comprehension of ozone in the South Coast Basin. Thus, SCAQMD will focus its resources on optimizing the program, evaluating technologies, and shifting resources to prepare for the revised program. The general concept will be to conduct intensive one-year large scale Specialized PAMS (SPAMS) measurements every several years and in between SPAMS, conduct reduced core PAMS program during non-intensive years.

During non-intensive years the goal is to track annual statistics, trends (yearly, seasonally, monthly, weekly, daily, hourly), spatial distribution, comparison to other federal programs, and comparison data for special projects. Non intensive monitoring is proposed at four sites:

- Los Angeles (Main street): Proposed required by U.S. EPA, Station Leveraging, Current Type 2 site
- Azusa: Current Type 2 site, Trend site
- Rubidoux: Proposed required by U.S. EPA, Station leveraging, Current Type 3 site.
- Long Beach: Port/ Refineries activity and emissions

During the periodic intensive one year SPAMS intensive period, the goal is to conduct measurements with better spatial resolution (both vertical and horizontal), establish trend data (yearly, seasonally, monthly, weekly, daily, hourly) – develop control strategies, emissions inventory evaluations, local scale studies, full scale photochemical transport modeling, VOC/NOx profiling, and background characterization.

The 2016 PAMS network monitoring objectives and requirements are summarized in Table 7, Table 20 and Figure 7 in Appendix A which shows the distribution of the PAMS network. SCAQMD will not conduct the intensive season sampling schedule for PAMS sites in 2016, but will continue the current non intensive schedule for all current PAMS sites. During this non-intensive season 24-hour VOC canister samples are run every 6th day and 24-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. SCAQMD will be evaluating implementation options for the revised PAMS/ SPAMS programs by reviewing the U.S. EPA PAMS GC assessment, upgrading its air monitoring network infrastructure, preparing mobile platforms, and evaluating instruments and methods.

TABLE 7. PAMS Network

			January 1 to December 31		
Site Type	Date Established as PAMS	Site / AQS ID#	VOC	Carbonyl	Additional Requirements
1	04/01/2004	LAX Hastings (replaced Hawthorne)	1 x 24 hr sample every 6 th day	No Sampling	
2	06/01/1995	Azusa	1 x 24 hr sample every 6 th day	No Sampling	No/NOx required
2	07/01/1997	Burbank	1 x 24 hr sample every 6 th day	1 x 24 hr sample every 6 th day	
2	06/01/2009	Los Angeles (Main)	1 x 24 hr sample every 6 th day	1 x 24 hr sample every 6 th day	Trace level CO required at one type 2 site.
2	08/01/2005	Pico Rivera #2	1 x 24 hr sample every 6 th day	1 x 24 hr sample every 6 th day	
3	06/09/2009	Rubidoux	1 x 24 hr sample every 6 th day	No Sampling	NOy required
3	05/01/2001	Santa Clarita	1 x 24 hr sample every 6 th day	1 x 24 hr sample every 6 th day	

MONITORING OBJECTIVES:

- 1 Upwind and background characterization site (type 1 or 3)
- 2 Maximum O3 precursor emissions impact site or above 8-hr zone
- 3 Maximum O3 concentration site
- 4 Extreme downwind monitoring site

MONITORING REQUIREMENTS: REDUCED REQUIREMENTS:

One type 1 or type 3 site required per area Speciated VOC only required at type 2 and one other

One type 2 site required per area Carbonyl only required in areas classified as serious

No type 4 required NO/NOx required only at type 2

NOy required at one site per PAMS area (type 1 or 3)

PM2.5

A network of 17 area wide 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 Mira Loma site was added during October, 2005 and the Route 710 Long Beach and Route 60 Ontario near road sites were added during January, 2015. The current number of sites totals 19 area wide monitors, as depicted in Figure 8, Appendix A, and the starting date of each sampler is listed in Table 8.

Collocated sampling sites include Rubidoux, Central Los Angeles, and Mira Loma (Van Buren). Of the collocated sites, all three are located at sites with annual mean particulate concentrations among the highest 25 percent of the annual mean concentrations for all sites in the network as required in 40 CFR § 58 Appendix A 3.3.1. Supporting data is shown in Figure 9, 2014 Air Quality Data Table. The latest data can be found at:

(http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year).

Manual, 24-hour PM2.5 monitors are sited as neighborhood scale and population exposure representing community wide air quality with multiple sites are listed as population exposure. Because all of SCAQMD are in non-attainment for PM2.5, most of the sites are in areas of with PM2.5 levels higher than the NAAQS. Therefore multiple sites are listed as population exposure and high concentration. If a PM2.5 network modification were to be implemented for a site that was in exceedance of the PM2.5 NAAQS levels, SCAQMD would notify U.S. EPA Region IX via written communication. Public notice of network modifications occurs as part of the annual network plan process which is stated in the annual network plan as required in 40 CFR § 58.10(c). All sites in the Network using FRM samplers are suitable for comparison against the annual PM2.5 NAAQS.

Daily design value sites are shown in Table 17a, as the Los Angeles and Mira Loma sites. A replacement site is currently being sought for Burbank due to termination of lease and the Mira Loma site satisfies the minimum daily monitoring requirement. Monitors exceed the minimum NCore 1 in 3 requirements at the Rubidoux and Los Angeles (Main) sites. The remaining sites meet or exceed the 1 in 3 schedule with the exception of Big Bear which was approved at the inception of the PM2.5 program as a 1 in 6 site. The Federal minimum monitoring requirements for PM2.5 are being met and/or exceeded by the SCAQMD PM2.5 monitoring network.

Continuous PM2.5 Met One BAMs were first deployed in fiscal year 2001-02. Fifteen BAM monitors are now operating in the SCAB, FEM BAM are located at: Anaheim, Los Angeles (Main), Mira Loma (Van Buren), Rubidoux, Ontario 60 Near Road, Route 710 Near Road, and South Long Beach sites. NON-FEM BAM samplers are located at Reseda, Santa Clarita, Crestline, Upland, Banning, Lake Elsinore, Temecula, and Glendora In 2011, all FEM BAMs have been reclassified from special purpose monitors to SLAMS under 40 CFR § 58.20. During 2014, the Burbank and North Long Beach sites were discontinued due to termination of leases.

During 2013-2015, SCAQMD conducted PM2.5 Continuous Monitor Comparability Assessments in accordance with the PM NAAQS rule published on January 15th, 2013 (78 FR 3086). Specific to the provisions detailed in §58.10 (b)(13) and §58.11 (e), the assessment results indicate that all of the SCAQMD PM2.5 Continuous Monitors did not meet the criteria to be compared against the NAAQS. Subsequently, SCAQMD requested waivers to exclude PM2.5 continuous monitor data from NAAQS comparison which were approved by EPA for 2013-2014. Meanwhile, SCAQMD is conducting comparison studies of newer technology to determine their ability to meet the criteria to be compared against the NAAQS. At such time when the assessment indicates that the FEM monitors are within the acceptance criteria, then U.S. EPA will be notified of the results and the AQS parameters will be changed to indicate that the data will be eligible for comparison to the NAAQS upon U.S. EPA approval. SCAQMD requests a waiver for 2015 PM2.5 continuous monitors as shown in appendix C of this report.

Coarse particulate matter measurements (PM10-2.5) were required at NCore sites until the revision to 40 CFR Part 58 on March 28, 2016. To meet this optional parameter, SCAQMD measures this value utilizing the continuous BAM monitors at the Los Angeles (Main) and Rubidoux air monitoring sites. These monitors are shown in Table 4.

Where both 24 hour FRM PM2.5 samplers and FEM PM2.5 continuous analyzers are deployed together, they are sited as collocated for data comparison purposes if the FEM analyzer meets the acceptance criteria under 78 FR 3086.

FRM PM2.5 sampler remains the primary analyzer used for attainment purposes and continuous analyzers are designated as audit samplers unless the primary 24 hour FRM PM2.5 is offline then continuous FEM analyzer data can be substituted if the FEM analyzer meets the acceptance criteria under 78 FR 3086.

PM2.5 speciation sampling is also a part of the SCAQMD PM2.5 program. Collocated STN Met One SASS PM2.5 and one SCAQMD Met One SASS PM2.5 speciation samplers were deployed in March 2001 at Rubidoux. An additional STN Met One SASS and collocated SCAQMD SASS samplers were deployed at Central Los Angeles in 2002. In 2003, SCAQMD SASS PM2.5 speciation samplers were installed at Fontana and Anaheim air monitoring sites. Analysis of the filters from the SCAQMD ambient network SASS samplers are being conducted at SCAQMD's laboratory. The STN SASS sample filters are shipped to a U.S. EPA contract laboratory for analysis. This approach has the concurrence of CARB and U.S. EPA, Region IX.

TABLE 8. Manual 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
Compton	COMP	70112	060371302	11/08	1-in-3
Fontana	FONT	36197	060712002	01/03/99	1-in-3
Indio	INDI	33157	060652002	01/30/99	1-in-3
Long Beach (North) 1	LGBH	70072	060374002	01/03/99	Daily
Long Beach Route 710 Near Road	W710	70032	060374008	01/01/15	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) "A"	MRLM	33165	060658005	11/09/05	Daily
Mira Loma (Van Buren) "B"	MRLM	33165	060658005	03/08/12	1-in-6
Mission Viejo	MSVJ	30002	060592022	06/15/99	1-in-3
Ontario Route 60 Near Road	60NR	36036	060710027	01/01/15	Daily
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
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

¹Although the N. Long Beach station has been closed, FRM PM2.5 measurements have been allowed to be continued at the location until a suitable replacement site can be implemented.

National Air Toxics Trends Station (NATTS)

The NATTS program was developed to fulfill the need for long-term Hazardous Air Pollutant (HAP) monitoring data of consistent quality nationwide. SCAQMD 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 SCAB. For this reason, two NATTS sites are used to characterize the SCAB'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 2013, a system audit was conducted by the EPA, which assessed the SCAQMD NATTS program. The audit found no major issues with the operation of the network.

NCore

NCore monitoring rules required that SCAQMD make NCore sites operational by January 1st, 2011. To meet this goal, SCAQMD installed trace level analyzers for CO, NOY and SO2 at the Rubidoux and Central Los Angeles sites. Continuous PM10 and PM2.5 BAM

are utilized for PM10-PM2.5 measurements at both sites. Both the Los Angeles and Rubidoux sites are NATTS and PAMS monitoring locations.

Special Programs

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

Aliso Canyon

On November 10, 2015, SCAQMD field staff supported California Air Resources Board (CARB) monitoring efforts in the collection of samples to assess the identity and levels of pollution related to a large natural gas leak. In addition, on December 4, 2015, the SCAQMD Governing Board approved the purchase of equipment and services to enhance natural gas monitoring capability at the Aliso Canyon Facility. This equipment is currently used inside the Aliso Canyon facility and in the surrounding communities, including Porter Ranch. The new equipment provided increased accuracy and the flexibility for deployment in mobile and stationary platforms. SCAQMD monitoring activities can be found at: http://www.aqmd.gov/home/regulations/compliance/aliso-canyon-update/air-sampling

Fugitive Dust Study

In support of SCAQMD 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.

Hexavalent Chrome

The SCAQMD has an ongoing program to collect ambient hexavalent chromium samples in the vicinity of several chrome plating and cement production facilities located throughout the SCAB. Monitoring continues at Newport Beach, Riverside, and other locations throughout the SCAQMD jurisdiction.

GERDAU-TAMCO

GERDAU North America acquired the TAMCO Rancho Cucamonga steel mini mill in October, 2010. In 2012 an environmental audit was conducted at the facility and found discrepancies in reported emissions with respect to SOx and NOx. Further, it was suspected that Pb emissions can contribute to an exceedance of the NAAQS. SCAQMD conducted inspections of the facility to address issues and continues monitoring for Pb, Cr+6, and other metals at the facility. Monitoring efforts at TAMCO currently measure Pb, Total Metals and Cr+6 on a one in three day schedule.

Salton Sea Monitoring

On Sunday September 9, 2012, a strong thunderstorm over the Salton Sea caused odors to be released and transported to the northwest, across the Coachella Valley and through the Banning Pass into the SCAB. The odors also crossed through the mountain passes west of

the Salton Sea and into the Temecula Valley. The following day, SCAQMD received over 235 complaints of sulfur and rotten egg type odors

As the Salton Sea recedes, the potential exists for more of these large-scale odor events to occur. SCAQMD has installed PM10 and H2S air monitors at Mecca (Saul Martinez Elementary School) and the Imperial Irrigation District's Torrez-Martinez site, located near the lakeshore, to monitor the type of expected nuisance pollutants which are released from the Salton Sea. The primary objective of this monitoring network is to place monitoring resources at a lakeside location where peak hydrogen sulfide concentrations are expected to occur and in the nearby community. The monitoring sites will provide data that can be used to assess population exposures in case of odor events and for comparison to the state standard for hydrogen sulfide. The Mecca site has become part of the permanent ambient air monitoring network.

As the Salton Sea is projected to recede, these sites will be further enhanced for monitoring the predicted particulate matter (PM) emissions from the Salton Sea area that may influence the Coachella Valley and South Coast Air Basin PM levels.

AllenCo

AllenCo is an oil field and gas production facility located in the City of Los Angeles surrounded by residences including low income housing units, F.D. Lanterman High School, and Mount Saint Mary's College. For several years SCAQMD inspectors have responded to numerous odor complaints from the local community and suspects AllenCo to be the source of these odors. In October 2013 the SCAQMD initiated monitoring at sites around the AllenCo facility. At Mt. St Mary's College regularly scheduled VOC samples are collected,. On the roof of the low income housing building across the street from AllenCo, there is a remote controlled sampler capable of collecting a VOC grab sample should an odor complaint be called into the SCAQMD odor complaint line. In November 2013 AllenCo temporarily shut down operations to repair issues which it believes were the cause of the previous odor complaints. SCAQMD moved the continuous Non-Methane Hydrocarbon Measurements to support the Aliso Canyon monitoring efforts, but continues to collect VOC samples while AllenCo is shutdown. When AllenCo resumes operations, SCAQMD intends on resuming continuous monitoring briefly to assess air quality.

Duarte

To better assess expansion of rock and quarry operations and its impact on residents of Duarte, SCAQMD began continuous PM10 monitoring on May 21, 2013. The study assesses levels of PM10 in the City of Duarte.

CPV Sentinel

To better assess potential emission impacts from the CPV Sentinel power plant to the Desert Hot Springs area, SCAQMD has installed and is now operating an FEM PM2.5 directly downwind of the power plant at a Mission Springs Water District well site. Monitoring began on May 23, 2014 and measures levels of fine particulates (PM2.5) on a continuous basis, providing real-time hourly data (http://www.aqmd.gov/home/library/air-quality-data-studies/special-monitoring/cpv-sentinel-monitoring).

Carlton Forge

Carlton Forge Works (CFW) operates furnaces, presses and grinders at its facility in Paramount to manufacture large metal rings used by aerospace and other industries. As part of its on-going investigation of air quality complaints and community concerns about potential burnt metal odors and emission from CFW, SCAQMD has deployed TSP monitors to monitor for metals. Based on the results of air sampling to date, SCAQMD has found ambient levels of some metals measured on few days in August, September and October 2013 at concentrations significantly higher than average levels measured throughout the basin. However, more recent measured ambient concentrations have declined.

Recent or Proposed Modifications to Network

5 Year Network Assessment

During 2015, an assessment of the monitoring network was conducted as required. A summary of suggested air monitoring network changes are provided below. There are many purposes and objectives for air quality monitoring, some beyond those described in the assessment. Meeting minimum monitoring requirements is just one factor in determining the value of sites and measurements. Given the challenges of meeting air quality standards in Southern California and the need for information to help in developing control strategies to achieve attainment, the SCAQMD monitoring network will far exceed the minimum requirements. Forecasting and public reporting are also critical in the network design. Furthermore, closing, relocating or creating monitoring sites requires significant resources and often a long period of concurrent monitoring to show comparability. Thus, the suggestions summarized below are under review and must be weighed against many other factors before being implemented.

- Consider a general reduction in the number of sites monitoring for SO2, NO2, and CO pollutants in the network while still maintaining all monitoring objectives and purposes.
- Reconsider the values of the Glendora, La Habra and Pomona sites, and potentially consolidate measurements at nearby sites or at a new site in Diamond Bar.
- Reconsider the value of the Big Bear Lake PM2.5 site.
- Consider consolidating all South Long Beach and North Long Beach measurements to a site that is closer to port activities and will better achieve the original purpose of the two sites.
- Reconsider the value of the Norco particulate sites, and potentially consolidate measurements at nearby sites or at a new site between the two.
- Continue to transition to continuous PM measurements that can eventually replace filter-based measurements.

Crestline

SCAQMD has been operating the Crestline site 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 site improvement. As part of regular air monitoring station maintenance, a new station shelter has been outfitted to replace the existing trailer. SCAQMD has received approved drawings from the San Bernardino County Planning, Building and Safety departments for construction plans. Construction is anticipated during fall 2016; however the schedule is dependent upon the approval and contract process.

West LA

SCAQMD has been operating the West LA site since 1983. The deteriorating state of the shelter along with compromises made to the siting criteria due to obstructions has made it a candidate for site improvement. As part of regular air monitoring station maintenance, a new station shelter has been outfitted to replace the existing platform. However, due to recent legislation, the SCAQMD lease is under review by the Veterans Administration. Construction schedule is dependent upon pending lease renewal.

Burbank

SCAQMD has been operating the Burbank site since October, 1961. Due to the termination of the lease by the owner, the site was shut down June, 2014. SCAQMD is working with Los Angeles County Department of Public Health to find a suitable location for monitoring within 2.5 miles of the previous location. SCAQMD is in consultation with U.S. EPA Region IX and is assessing the relocation of the site. A waiver for closure of the site is include in Appendix D of this report.

South Long Beach

SCAQMD has been operating the South Long Beach station as part of the ambient air-monitoring network. Recent construction of the buildings adjacent to the site potentially compromises the siting criteria. During the FY 2016-17 a data comparison between a more centralized monitoring location in Long Beach will be undertaken. If comparison of data between the two locations demonstrates some comparability, or if the metropolitan site shows consistently higher levels of PM, the South Long Beach site may be relocated in consultation with EPA Region IX.

Long Beach (North)

At the request of the owner, the Long Beach (North) site lease was terminated on September 30, 2013. As a result some pollutants were discontinued while a replacement site is sought. Consideration is being given to consolidation with nearby sites to better represent the Long Beach area.

Minimum Monitoring Requirements

The SCAQMD jurisdictional boundary encompasses two MSAs and two CBSAs whose boundaries and codes mirror those of the MSAs as defined by the U.S. Office of Management and Budget. Los Angeles-Long Beach-Anaheim MSA\CBSA (Code 31080) has an estimated population of 13,131,431 and the Riverside-San Bernardino-Ontario MSA\CBSA (Code 40140) has an estimated population of 4,380,878 according to U.S. Census estimates for 2013. The minimum number of monitors for each pollutant is based on MSA population as described in 40 CFR § 58 Appendix D. The SCAQMD is a Primary Quality Assurance Organization (PQAO) and the network exceeds the minimum monitoring requirements for all criteria pollutants. Details are provided below.

<u>**Table 9 Minimum Monitoring Requirements for Ozone.**</u> (Note: Refer to section 4.1 and Table D-2 of Appendix D of 40 CFR Part 58.)

MSA	Counties	Population and Census Year	8-hr Design Value (ppb) DV, Years ¹	Design Value Site (name AQS ID0	Monitors Required	Monitors Active	Monitors Needed
30180	Los Angeles Orange	13,131,431 2013	97 2012-2014	Santa Clarita 060376012	4	16	0
40140	San Bernardino Riverside	4,380,878 2013	102 2012-2014	Redlands 060714003	3	13	0

¹DV Years – The three years over which the design value was calculated.

Monitors required for SIP or Maintenance Plan: 29

<u>Table 10 Minimum Monitoring Requirements for PM2.5 SLAMS (FRM/FEM/ARM)</u> (Note: Refer to sections 4.71, 4.72, and Table D-5 of Appendix D of 40 CFR Part 58.)

(- : - : - : - : - : - : - : - : - : - :	Note: Refer to sections 4.71, 4.72, and Table B 3 of Appendix B of 40 CTR Tart 30.7								
MSA	Counties	Population and Census Year	Annual Design Value [ug/m3], DV & Years ¹	Annual Design Value Site (Name, AQS ID)	Daily Design Value [ug/m3], DV & years	Daily Design Value site (name AQS ID)	# Required SLAMS Monitors	# Active SLAMS Monitors	# Additional SLAMS needed
30180	Los Angeles Orange	13,131,431 2013	12.4 2012-2014	Los Angeles 060371103	32 2012- 2014	Los Angeles 060371103	3	10	0
40140	San Bernardino Riverside	4,380,878 2013	14.7 2012-2014	Mira Loma 060658005	38 2012- 2014	Mira Loma 060658005	3	9	0

DV Years – The three years over which the design value was calculated.

Monitors required for SIP or Maintenance Plan: 19

<u>Table 11 Minimum Monitoring Requirements for Continuous PM2.5 Monitors (FEM and Non-FEM)*</u>

(FEM/ARM and non-FEM see 40 CFR 58 Appendix D Section 4.72.)

MSA	Counties	Population and Census Year	Annual Design Value [ug/m3], DV & Years ¹	Annual Design Value Site (Name, AQS ID)	Daily Design Value [ug/m3], DV & years	Daily Design Value site (name AQS ID)	# Required Continuous Monitors	# Active Continuous Monitors	# Additional Continuous needed
30180	Los Angeles Orange	13,131,431 2013	19.58 2012-2014	Los Angeles 060371103	41.7, 2012-2014	Los Angeles 060371103	2	4-FEM 3-Non FEM	0
40140	San Bernardino Riverside	4,380,878 2013	19.37, 2012-2014	Mira Loma 060658005	52.6, 2012-2014	Rubidoux 060658001	2	3-FEM 6-Non FEM ²	0

¹DV Years – The three years over which the design value was calculated.

Monitors required for SIP or Maintenance Plan: 15

Table 12 Minimum Monitoring Requirements for Speciated PM2.5 Monitors

(Note: Refer to sections 4.74 of Appendix D of 40 CFR Part 58.)

MSA	Counties	Population and Census Year	Monitors Required ¹	Monitors Active	Monitors Needed
30180	Los Angeles Orange	13,131,431 2013	1	2	0
40140	San Bernardino Riverside	4,380,878 2013	1	2	0

¹Sites designated as part of the PM_{2.5} Speciation Trends Network (STN).

Monitors required for SIP or Maintenance Plan: 4

²One Non FEM is collocated at the Rubidoux site with a FEM.

^{*} Currently all active continuous monitors do not meet acceptance criteria under 78 FR 3086 and is requested to not be compared to the NAAQS.

Table13 Minimum Monitoring Requirements for PM10

(Note: Refer to section 4.6 and Table D-4 of Appendix D of 40 CFR Part 58.)

Trotter to be used the same running of the error table by									
MSA	Counties	Population and Census Year	2014 Max Concentration [ug/m3]	Max Concentration site (name AQS ID)	# Required Monitors	# Active Monitors	# Additional Monitors Needed		
30180	Los Angeles Orange	13,131,431 2013	98	Azusa 060370002	2-4 Low Conc	8	0		
40140	San Bernardino Riverside	4,380,878 2013	136 ¹	San Bernardino 060719004	4-8 Med Conc	11	0		

Monitors required for SIP or Maintenance Plan: 19

Table 14 Minimum Monitoring Requirements for NO2

(Note: Refer to section 4.3 of Appendix D of 40 CFR Part 58.)

CBSA	Population and Census Year	Max AADT Counts (2013) ¹	# Required Near Road Monitors ²	#Active Near Road Monitors	#Additional Near Road Monitors Needed	#Required Area Wide Monitors	#Active Area Wide Monitors	#Additional Area wide Monitors Needed
30180	13,131,431 2013	377,000 2013	2	2	0	1	15	0
40140	4,380,878 2013	267,000 2013	2	2	0	1	8	0

¹Max AADT Counts – 2013 is the latest data available from CA DOT

Monitors required for SIP or Maintenance Plan: 13 (area wide), 4 (near road)

Monitors Required for PAMS: 7

EPA Regional Administrator-required monitors per 40 CFR 58, Appendix D 4.3.4: 3

¹Excluding high concentration at Indio (298 ug/m3, on 8/18/2014.)

²Four required beginning January 1, 2015.

Table 15 Minimum Monitoring Requirements for SO2

(Note: Refer to section 4.4 of Appendix D of 40 CFR Part 58.)

CBSA	Counties	Total SO2 ¹ [tons/year]	Population Weighted Emissions Index ² [million persons-tons per year]	#Active Near Road Monitors	#Required Area Wide Monitors	#Active Area Wide Monitors	#Additional Area wide Monitors Needed
30180	Los Angeles Orange	6102.45 2013	80,134	0	1	4	0
40140	San Bernardino Riverside	2307.02 2013	10,107	0	1	2	0

¹Using latest NEI data 2013, available on EPA website: http://www.epa.gov/ttn/chief/net/2013inventory.html

Monitors required for SIP or Maintenance Plan: 6

EPA Regional Administrator-required monitors per 40 CFR 58, Appendix D 4.4.3: 0

Table 16 Minimum Monitoring Requirements for CO

(Note: Refer to section 4.2 of Appendix D of 40 CFR Part 58.)

CBSA	Population and Census Year	#Required Near Road Monitors ¹	#Active Near Road Monitors ²	#Required Area Wide Monitors	#Active Area Wide Monitors
30180	13,131,431 2013	1	1	0	16
40140	4,380,878 2013	1	1	0	7

¹Required beginning January 1, 2015

Monitors required for SIP or Maintenance Plan: 23 (area wide), 2 (near road)

EPA Regional Administrator-required monitors per 40 CFR 58, Appendix D 4.4.2: 0

Table 17 Minimum Monitoring Requirements for Pb at NCore

(Note: Refer to section 4.5 of Appendix D of 40 CFR Part 58.)

NCore Site (name, AQS ID)	CBSA	Population and Census Year	# Required Monitors	# Active Monitors	# Additional Monitors Needed
Los Angeles (Main Street) 060371103	30180	13,131,431 2013	1	21	0
Rubidoux 060658001	40140	4,380,878 2013	1	1	0

¹ Collocated Monitor.

²Calculated by multiplying CBSA population and total SO2 and dividing product by one million.

²Required sites to be active by January 1, 2015; to be collocated with near road NO2 sites.

Table 18 Source Oriented Pb Monitoring (Including Airports)

		Pb Emissions ¹	Emission Inventory	Max 3-Month Design	Design Value Date(third month,	# Required	# Active	# Additional
Source Name	Address	(tons per year)	Source ² and Data Year	Value ¹ [ug/m3]	year)	Monitors	Monitors	Monitors Needed
Van Nuys Airport	16461 Sherman Way, Van Nuys, CA 91406	0.68	NEI 2011	0.06	7; 2012	0	0	0
TAMCO	12459-B Arrow Route, Rancho Cucamonga, CA 91739	0.42	NEI 2011	Unavailable	Unavailable	0	1	0
Exide Technologies	2700 S Indiana St, Vernon, CA 90058	0.1	NEI 2011	0.46	7; 2011	1	2	0
Trojan Battery	9440 Ann St., Santa Fe Springs, CA 90670	0.00556	NEI 2011	0.11	4; 2011	0	1	0
Quemetco Inc.	720 S 7th Ave, City Of Industry, CA 91746	0.0048	NEI 2011	0.11	7; 2010	0	1	0

(Note: Refer to section 4.5 of Appendix D of 40 CFR Part 58.)

Monitors Required for SIP or Maintenance Plan: 5

EPA Regional Administrator required monitors per 40 CFR 58, Appendix D 4.5(C) c: 0

<u>Table 19 Minimum Monitoring Requirements for Pb, Non-Source, Non-NCore Monitoring</u> (Note: Refer to section 4.5 of Appendix D of 40 CFR Part 58.)

CBSA	Population and Census Year	Annual Design Value [ug/m3], DV & Years ¹	# Required Area Wide Monitors	# Active Area Wide Monitors	# Additional Monitors Needed
30180	13,131,431 2013	0.01, 2012-2014	0	4	0
40140	4,380,878 2013	0.01, 2012-2014	0	2	0

¹DV Years – The three years over which the design value was calculated.

¹Consider data from past three years.

²Data found at http://www.epa.gov/ttn/chief/net/2011inventory.html (5/1/2015)

Table 20 Minimum Monitoring Requirements for PAMS

(Note: Refer to section 4.5 of Appendix D of 40 CFR Part 58.)

Area	Туре	# Required PAMS Sites	# Active PAMS Sites	# PAMS Sites Needed
CAAOMD	1 or 3	1	3	0
	2	1	4	0
SCAQMD Monitoring Area	4	0	0	0
Womoning Area	Upper Air Meteorology	1	5	0

<u>Table 21 Collocated Manual PM2.5, PM10, and Non-NCore Pb Networks</u> (Note: Refer to section 3.2.5, 3.3.5, 3.3.1, and 3.3.4.3 of Appendix A, 40 CFR Part 58.)

Pollutant	Method Code	# Primary Monitors	# Required Collocated Monitors	# Active Collocated Monitors
PM2.5 (RAAS)	780, 120	19	3	3
PM10 (SSI Hi-Vol)	063, 102	19	3	3
Pb (TSP Hi-Vol)	110 (Non Source)	8	1	2
Pb (Tsp Hi-Vol)	110 (Source)	5	1	1

Table 22 Collocated Automated (continuous) PM2.5 Network

(Note: Refer to section 3.2.5 & 3.3.5 of Appendix A, 40 CFR Part 58.)

Method Code	# Primary	# Required	# Active Collocated
	Monitors	Collocated Monitors	Monitors ¹
None	0	0	6

¹No FEM PM2.5 BAMs are listed as primary monitors; therefore no collocation requirement exists but all are collocated with FRM monitors.

Data Submittal and Archiving Requirements

As required in 40 CFR 58.16(a), data is reported via AQS including all ambient air quality data and associated quality assurance data for SO2, CO, O3, NO2, Near Road NO2, NO, NOy, NOX, Pb-TSP mass concentration, Pb-PM10 mass concentration, PM10 mass concentration, PM2.5 mass concentration, filter-based PM2.5 FRM/FEM field blank mass, sampler-generated average daily temperature, and sampler-generated average daily pressure, chemically speciated PM2.5 mass concentration data, PM10-2.5 mass concentration, meteorological data from NCore and PAMS sites, average daily temperature\average daily pressure for Pb sites and metadata records\information as specified by the AQS Data Coding Manual through December 31, 2015.

A data certification letter has been submitted to the EPA Regional Administrator certifying applicable data collected at all SLAMS and at all FRM, FEM, and ARM SPM stations that meet criteria in appendix A, to part 58, for January 1 through December 31, 2015.

APPENDIX A

SCAQMD Network Depictions

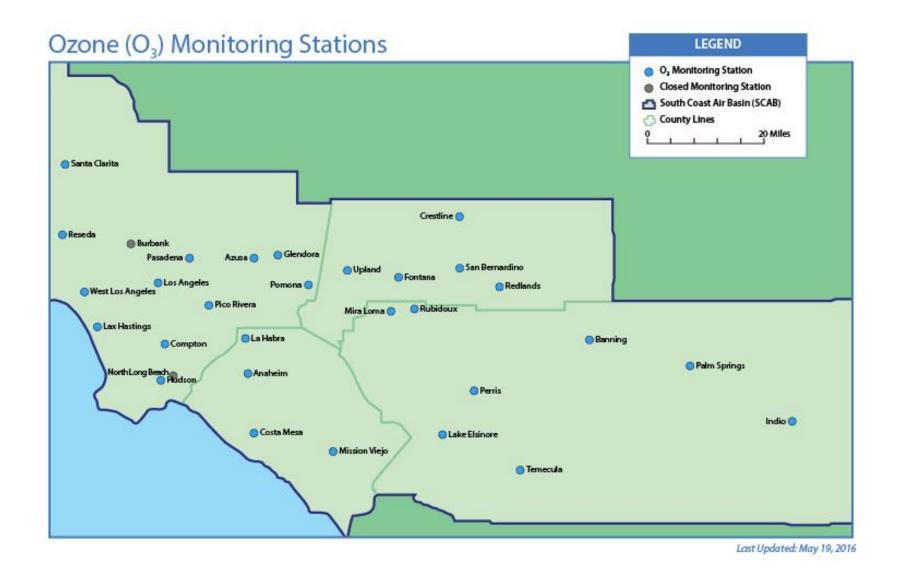


Figure 1 SCAQMD Ozone Monitoring Locations



Figure 2 SCAQMD PM10 Monitoring Locations

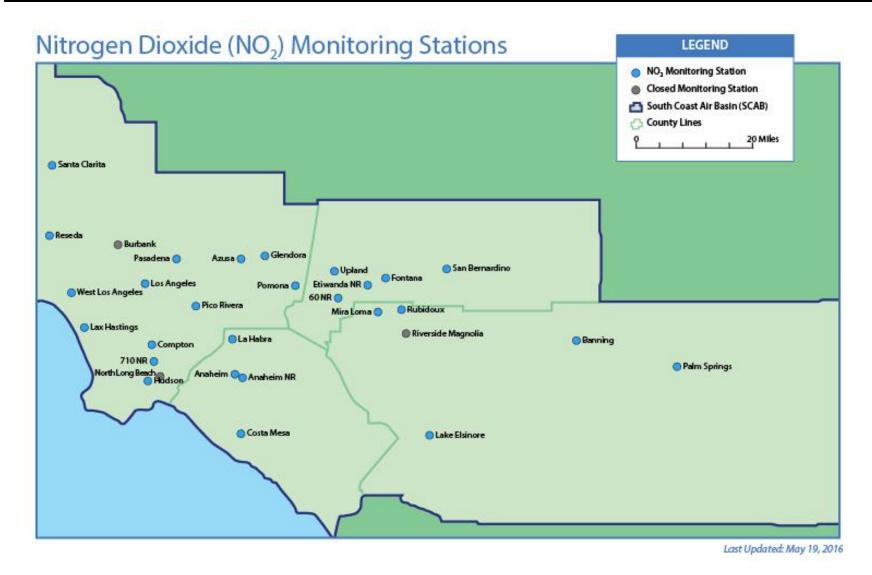


Figure 3 SCAQMD Monitoring Locations for Nitrogen Dioxide

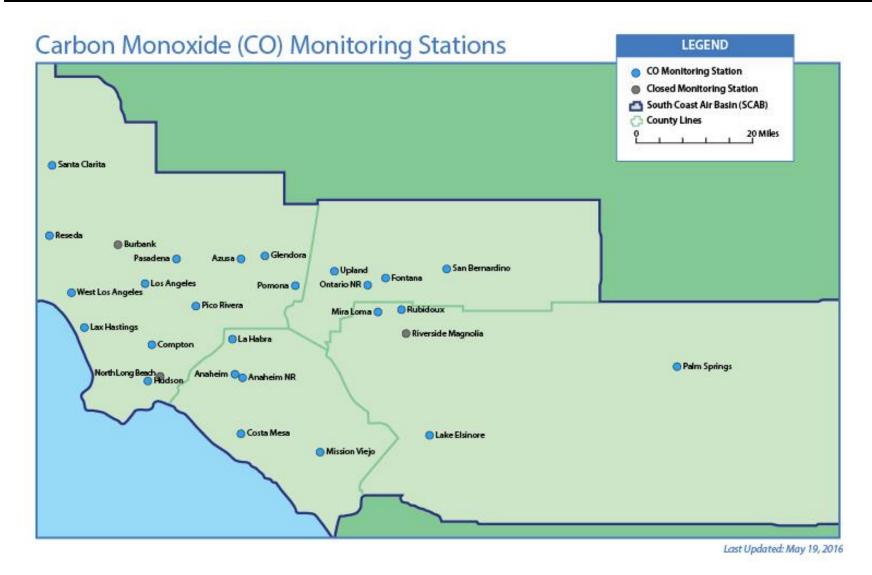


Figure 4 SCAQMD Monitoring Locations for Carbon Monoxide

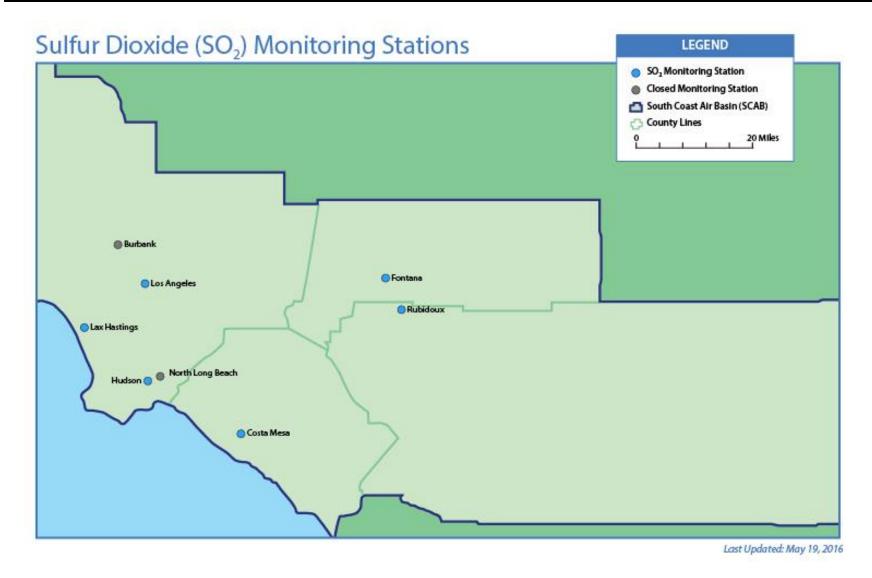


Figure 5 SCAQMD Monitoring Locations for Sulfur Dioxide

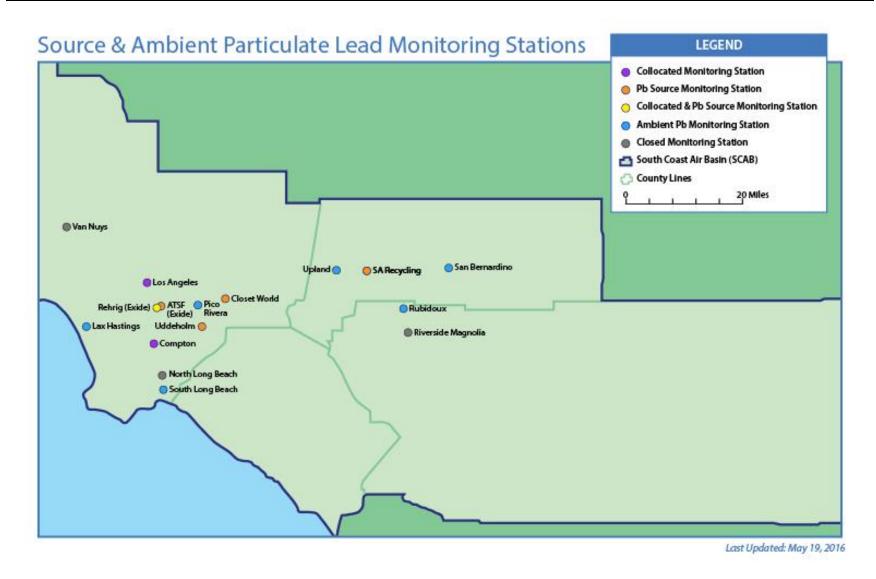


Figure 6 SCAQMD Source and Ambient Particulate Lead Monitoring Locations

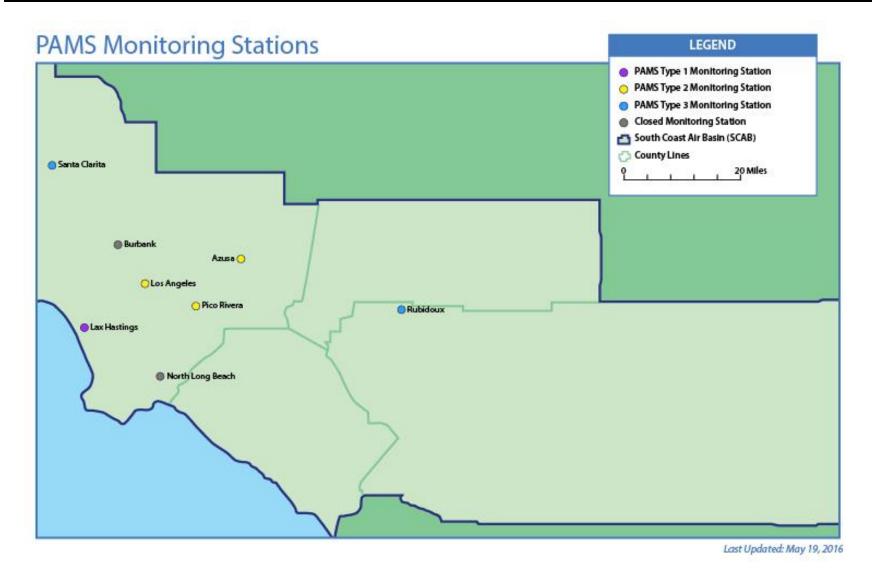


Figure 7 SCAQMD PAMS Monitoring Locations



Last Updated: May 19, 2016

Figure 8 SCAQMD PM2.5 Monitoring Locations

2014 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	Carbon Monoxide a)						Ozone									Nitrogen Dioxide b)				Sulfur Dioxide c)		
	2014			No. Days						s Standard E	xceeded											
Same	2014	Station	No. Days of	Max Conc. in ppm	Max Conc. in ppm	No. Days of	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. ppm	Old Federal > 0.124 ppm	Current Federal > 0.075 ppm	1997 Federal > 0.084 ppm	Current State > 0.09 ppm	Current State > 0.070 ppm	No. Days of	Max Conc. in ppb	98 th Percentile Conc. ppb	Annual Average <u>AAM</u> Conc.	No. Days of	Max. Conc. in ppb	99 th Percentile Conc. ppb	
No.		No.	Data	1-hour	8-hour	Data	1-hour	8-hour	8-hour	1-hour	8-hour	8-hour	1-hour	8-hour	Data	1-hour	1-hour	ppb	Data	1-hour	1-hour	
LOS	ANGELES COUNTY																					
1	Central LA	087	365	3	2.0	365	0.113	0.094	0.072	0	2	1	3	7	365	82.1	67.4	22.2	364	5.4	4.4	
2	Northwest Coastal LA County	091	365	2	1.3	365	0.116	0.094	0.077	ō	4	2	ĭ	6	337	63.9	53.9	13.3	_	_	_	
3	Southwest Coastal LA County	820	365	3	1.9	365	0.114	0.080	0.075	0	3	ō	i	6	365	87.3	66.4	11.9	365	15.3	9.1	
4	South Coastal LA County 1	072	-	-	-	-	_	-	-	_	-	-	_	-	_	_	_	-	-	_	_	
4	South Coastal LA County 2	077		-	-	-	-	_	-	-	-	-	-	-	_	_	-	-	-	_	_	
4	South Coastal LA County 3	033	345	4	2.6	351	0.087	0.072	0.061	0	0	0	0	.1	340	135.9	84.8	20.7	288	14.7	10.1	
6	West San Fernando Valley	074	365	4	3.0	365	0.116	0.092	0.083	0	11	2	6	31	327	58.9	52.4	11.7	_	_	_	
7	East San Fernando Valley	069	158*	3	3.0	161*	0.091	0.079	0.069	0	1	0	0	.2	150*	73.2	65.2	21.8	154*	4.5	3.9	
8	West San Gabriel Valley East San Gabriel Valley 1	088 060	348 365	3	1.8	333 365	0.124	0.096	0.086	0	7 11	4	6 11	13 20	347 361	75.2 70.2	60.1 60.6	16.6 17.8	-	_	-	
- 9	East San Gabriel Valley 2	591	365	1	0.7	364	0.123	0.101	0.096		38	14	41	60	352	65.7	51.1	13.1	-			
10	Pomona/Walnut Valley	075	365	;	1.6	358	0.123	0.099	0.090	ő	33		22	56	365	88.9	63.8	22.1	_	_	_	
11	South San Gabriel Valley	085	364	4	2.5	361	0.121	0.092	0.079	ŏ	5	í	7	7	365	86.7	61.9	19.5	_	_	_	
12	South Central LA County	112	356	6	3.8	355	0.094	0.081	0.073	0	2	ō	0	4	350	68.2	59.2	15.6	_	_	_	
13	Santa Clarita Valley	090	361	3	1.2	360	0.137	0.110	0.097	2	45	16	32	65	360	57.7	46.1	12.7	_	_	_	
ORA	NGE COUNTY																					
16	North Orange County	3177	363	4	2.1	362	0.119	0.088	0.075	0	2	2	5	6	361	83.6	56.6	15.2	_	_	_	
17	Central Orange County	3176	365	3	2.1	338	0.111	0.081	0.076	ō	4	ō	2	6	338	75.8	59.8	15.2	_	_	_	
18	North Coastal Orange County	3195	365	3	1.9	364	0.096	0.079	0.076	0	4	0	ī	6	365	60.6	53.7	10.8	357	8.8	3.7	
19	Saddleback Valley	3812	365	1	0.7	365	0.115	0.088	0.078	0	5	2	4	10	_	-	-	-	-	_	-	
RIVE	RSIDE COUNTY																					
22	Norco/Corona	4155	-	_	_	-	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_	
23	Metropolitan Riverside County 1	4144	365	2	1.9	365	0.141	0.104	0.091	1	41	12	29	69	362	59.9	53.2	15.1	365	5.6	3.5	
23	Metropolitan Riverside County 2	4146	363	2	1.4	-	-	_	-	-	-	-	_	-	361	56.3	50.2	15.8	-	_	_	
23	Mira Loma	4165	364	2	2.4	364	0.138	0.102	0.087	1	29	6	17	55	364	57.7	49.2	13.7	-	-	_	
24	Perris Valley	4149	-	-	-	341	0.117	0.094	0.089	0	38	7	16	63	-				-	_		
25	Lake Elsinore	4158	355	2	1.4	354	0.104	0.086	0.079	0	6	1	4	13	334	45.3	39.6	8.2	-	-	-	
26 29	Temecula Banning Airport	4031 4164	_	-	_	345 362	0.119	0.100	0.077	0	4 38	ıi	1 22	14 58	351	52.3	45.5	8.5	-	-	_	
30	Coachella Valley 1**	4137	365	2	0.9	365	0.108	0.093	0.089	ŏ	35	"		61	341	46.3	41.2	7.1	_	_	_	
30	Coachella Valley 2**	4157	363	_	0.5	365	0.095	0.091	0.084	ŏ	10	2	2	30	341	40.3	71.2	7.1	_	_	_	
	BERNARDINO COUNTY						0.070	0.071	0.001		-			-								
32	Northwest San Bernardino Valley	5175	361	3	1.2	361	0.126	0.101	0.093	1	42	15	34	60	357	74.1	56.7	16.6	ı			
33	Southwest San Bernardino Valley	5817	361	-	-	-	0.126	0.101	0.093	-	-		7	-	-	74.1	30.7	10.0	I _	_	_	
34	Central San Bernardino Valley 1	5197	331	3	1.2	330*	0.127	0.105	0.093	ī	37	14	31	52	330	70.4	63.6	20.2	330	4.0	2.8	
34	Central San Bernardino Valley 2	5203	360	4	2.4	365	0.121	0.099	0.095	·	51	21	38	76	365	72.6	56.1	18.0	-	-		
35	East San Bernardino Valley	5204	_	_	_	365	0.128	0.104	0.099	2	55	27	47	83	_	-	-	-	-	_	_	
37	Central San Bernardino Mountains	5181	-	-	_	365	0.130	0.106	0.102	ī	68	41	50	97	-	_	_	-	-	_	_	
38	East San Bernardino Mountains	5818	-	-	-	_	-	_	-	_	_	-	-	-	-	-	-	-	-	-	-	
	DISTRICT MAXIMUM			6	3.8		0.141	0.110	0.102	5	68	41	50	97		135.9	84.8	22.2		15.3	10.1	
	SOUTH COAST AIR BASIN				3.8		0.141	0.110	0.102	10	92	54	74	129		135.9	84.8	22.2		15.3	10.1	
	# Incomplete data			Ale Daele		_																

AAM = Annual Arithmetic Mean

ppm - Parts Per Million parts of air, by volume ppb - Parts Per Billion parts of air, by volume AAM = Annus
a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.

a) - The reterior a-most statement of the contraction of the state of the statement of the

0.18 ppm (180 ppb) and 0.030 ppm (30 ppb).
c) - The federal SO₂ 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO₂ > 0.25 ppm (250 ppb) and 24-hour average SO₂ > 0.04 ppm (40 ppb).

South Coast Air Quality Management District 21865 Copley Drive AOMD Diamond Bar, CA 91765-4182 www.aqmd.gov

For information on the current standard levels and most recent revisions please refer to "Appendix II — Current Air Quality" of the "Final 2012 AQMP" which can be accessed at <a href="http://www.aqmd_gov/docs/default-source/clean-air-plans/air-quality-manuscreent-obs/final-2012-agms-fibrogram-docs-ii-final-2012-adm-fibrogram-docs-ii-final-2012-adm-fibrogram-docs-ii-final-2012-adm-fibrogram-docs-ii-final-2012-adm-fibrogram-fibrogram-docs-ii-final-2012-adm-fibrogram-fibrogr

Figure 9 SCAQMD 2014 Air Quality Data Summary

Appendix A Page 10

2014 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

			Suspended Particulates PM10 d.f)						Fine l	Particulate	s PM2.5g)	Leadi)		PM10 Sulfatei)		
No.	2014 Location	Station No.	No. Days of Data	Max. Conc. in μg/m ³ 24-hour	No. (%) Exceeding Federal > 150 µg/m ³ 24-hour	Samples g Standards <u>State</u> > 50 µg/m ³ 24-hour	Annual. Average Conc. 4) (AAM) µg/m ³	No. Days of Data	Max. Conc. in μg/ms 24-hour	98th Percentile Conc. in µg/ms 24-hour	No (%) Samples Exceeding Federal Std > 35 µg/ms 24-hour	Annual. Average Conc. h) (AAM) µg/ms	Max. Monthly Average Conc. µg/m ³	Max. 3-Months Rolling Averages µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour
LOS AN	GELES COUNTY				_	_										
1 2	Central LA Northwest Coastal LA County	087 091	58	66	0	3	30.6	341	59.9	34.5	6(1.8%)	12.36	0.013	0.01	57	11.0
3	Southwest Coastal LA County	820	60	46	-	-	22.0	_	-	_		_	0.008	0.01	60	5.1
4	South Coastal LA County 1	072	_	-	_	_		346	51.5	31.3	2(0.6%)	11.42	0.000	-	_	-
4	South Coastal LA County 2	077	59	59	0	2	26.6	329	52.2	27.2	2(0.6%)	10.72	0.012	0.01	59	4.5
4	South Coastal LA County 3	033	-	_	_		-	-	-	-		-	-	_	_	-
6	West San Fernando Valley	074	_	_	_	_	-	109	27.2	20.9	0(0%)	9.72	_	_	_	_
7	East San Fernando Valley	069	29	60	0	1	31.2	178*	64.6	29.0	2(1.1%)	12.08	_	_	29*	4.0
8	West San Gabriel Valley	088	_	_	_	_	_	113	38.8	26.3	1(0.9%)	11.29	_	_	_	_
9	East San Gabriel Valley 1	060	60	96	0	22	44.1	118	32.4	29.9	0(0%)	11.63	_	-	59	14.3
9	East San Gabriel Valley 2	591	-	-	_	-	-	-	-	-		-	_	-	-	-
10	Pomons/Walnut Valley	075	-	-	-	-	-	-	_	_		_		_	-	-
11	South San Gabriel Valley	085	-	-	_	-	-	116	35.1	30.1	0(0%)	12.08	0.017	0.01	-	-
12	South Central LA County	112	59	47	-	-		113	35.8	30.9	1(0.9%)	12.64	0.013	0.01	58	43
13	Santa Clarita Valley	090	39	47	0	0	23.2	_		_			-	-	38	4.3
	E COUNTY															
16	North Orange County	3177	-	-	-	-	-						_	-	-	
17	Central Orange County	3176	61	85	0	2	26.8	344	56.2	34.4	6(1.7%)	10.53	_	-	61	9.4
18 19	North Coastal Orange County Saddleback Valley	3195 3812	60	41	0	-	20.2	115	25.5	21.6	0(0%)	8.02	-	-	60	4.0
		3812	60	41			20.2	115	25.5	21.6	0(0%)	8.02	-	_	60	4,0
RIVERSI	DE COUNTY		l												l	
22	Norco/Corona	4155	59	65	0	3	30.9	-	_	-		-	_	_	59	3.8
23	Metropolitan Riverside County 1	4144	117	100	0	17	36.7	346	48.9	34.3	5(1.4%)	12.48	0.011	0.01	170	4.1
23	Metropolitan Riverside County 2	4146	-	-	-	-	-	110	30.9	26.0	0(0%)	10.94	0.010	0.01	-	-
23	Mira Loma	4165	61	85	0	18	42.9	351	73.6	40.0	9(2.6%)	14.48	_	-	61	4.2
24	Perris Valley	4149	60	87	0	8	35.1	-		-			-	_	60	3.5
25	Lake Elsinore	4158	-	-	-	-	-	-	-	-		-	-	-	-	-
26 29	Temecula Banning Airport	4031 4164	58	45	-	-	20.7	-	-	_		-	_	-	58	2.7
30	Coachella Valley 1**	4137	54	57	ŏ	2	22.2	113	15.5	14.5	0(0%)	6.42	_	_	54	2.6
30	Coachella Valley 2**	4157	120+	121+	0+	24	41.2	112	26.5	16.8	0(0%)	8.32	_	_	180	3.2
	RNARDINO COUNTY				-				20.0	10.0	4,010				100	
32	Northwest San Bernardino Valley	5175	_				_	_		_		_	0.009	0.01	_	
33	Southwest San Bernardino Valley	5817	30	67	-	4	33.2	58*	38.4	34.6	1(1.7%)	12.96	0.009	0.01	58	3.9
34	Central San Bernardino Valley 1	5197	58	68	ŏ	13	39.7	109	78.9	34.5	1(0.9%)	13.18	_	_	58	5.0
34	Central San Bernardino Valley 2	5203	60	136	ŏ	4	33.9	110	73.9	28.1	1(0.9%)	11.67	0.012	0.01	60	4.6
35	East San Bernardino Valley	5204	60	62	ŏ	2	25.9	-	-		arian and	_	-	-	59	3.4
37	Central San Bernardino Mountains	5181	61	47	0	ō	18.5	_	_	-		_	_	_	60	2.9
38	East San Bernardino Mountains	5818	_	_	_	_	-	56	24.2	19.1	0(0%)	7.03	-	_	_	_
	DISTRICT MAXIMUM			136	0	24	44.1		78.9	40.0	9	14.48	0.017	0.01		14.3
	SOUTH COAST AIR BASIN			136	0	44	44.1		78.9	40.0	15	14.48	0.017	0.01		14.3
	COULT COMME THAT BEIGHT		_				*****			10.0			0,020	4141		

µg/m³ - Micrograms per cubic meter of air d) - Federal Reference Method (FRM) PM10 samples were collected every 6 days at all sites except for Stations 4144 and 4157, where samples were collected every 3 days. PM10 statistics listed above are for the FRM data only. Federal Equivalent

i) – Federal lead standard is 3-months rolling average > 0.15 µg/m³, state standard is monthly average ≥ 1.5 µg/m³. Lead standards were not exceeded.
 Higher lead concentrations were recorded at source-oriented monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.07 µg/m³ and 0.10 µg/m³, respectively j) - State sulfate standard is 24-hour ≥ 25 μg/m³. There is no federal standard for sulfate.



Figure 9 SCAQMD 2014 Air Quality Data Summary Continued

Appendix A Page 11

Method (FEM) PM10 continuous monitoring instruments were operated at some of the above locations. Max 24-hour average PM10 at sites with FEM monitoring was 152 µg/m³, at Indio.

e) - State standard is annual average (AAM) > 20 µg/m³. Federal annual PM10 standard (AAM > 50 µg/m³) was revoked in 2006.

f) - High PM10 data sample (298 µg/m³ on August 18 at Indio) excluded due to the high wind in accordance with the EPA Exceptional Event Regulation. Also, multiple high PM10 FEM data recorded in Coachella Valley and the Basin

g) - PM2.5 samples were collected every 3 days at all sites except for station numbers 072, 077, 087, 3176, 4144 and 4165, where samples were taken daily, and station number 5818 where samples were taken every 6 days. PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations for special purposes studies.

h) – Both Federal and State standards are annual average (AAM) > 12.0 μg/m³.

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.

- 1. Anaheim
- 2. Anaheim Route 5 Near Road
- 3. ATSF (Exide)
- 4. Azusa
- 5. Banning Airport
- 6. Big Bear
- 7. Closet World (Quemetco)
- 8. Compton
- 9. Costa Mesa
- 10. Crestline
- 11. Fontana
- 12. Glendora
- 13. Indio
- 14. La Habra
- 15. Lake Elsinore
- 16. LAX Hastings
- 17. Long Beach (Hudson)
- 18. Long Beach Route 710 Near Road
- 19. Long Beach North
- 20. Long Beach South
- 21. Los Angeles (Main Street)
- 22. Mecca (Saul Martinez)
- 23. Mira Loma (Van Buren)
- 24. Mission Viejo
- 25. Norco
- 26. Ontario Etiwanda Near Road
- 27. Ontario Route 60 Near Road
- 28. Palm Springs
- 29. Pasadena
- 30. Perris
- 31. Pico Rivera #2
- 32. Pomona
- 33. Redlands
- 34. Rehrig (Exide)
- 35. Reseda
- 36. Rubidoux
- 37. San Bernardino
- 38. Santa Clarita
- 39. SA Recycling²
- 40. Temecula
- 41. Uddelholm (Trojan Battery)
- 42. Upland
- 43. West Los Angeles

Table 26 Selected POC, Parameter and Method Codes¹

Instrument	Pollutant	POC Code	Method Code	Parameter Code
910	NATTS VOCs	4	172	43218, 43372, 43505, 43551, 43552, 43802, 43803, 43804, 43815, 43817, 43824, 43829, 43843, 43860, 45109, 45201, 45202, 45203, 45204, 45220, 45805, 45807.
910	PAMS VOCs	2, 7, 2, or 8	126	43000, 43102, 43202, 43203, 43204, 43205, 43206, 43212, 43214, 43216, 43217, 43220, 43221, 43224, 43226, 43227, 43230, 43231, 43232, 43233, 43235, 43238, 43242, 43243, 43244, 43245, 43247, 43248, 43249, 43250, 43252, 43253, 43261, 43262, 43263, 43280, 43284, 43285, 43291, 43954, 43960, 45109, 45201, 45202, 45203, 45204, 45207, 45208, 45209, 45210, 45211, 45212, 45213, 45218, 45219, 45220, 45225.
ATEC 8000	PAMS Carbonyls	2 or 8	102	43502, 43503.
GMW 1200	PM10	1,2,4, or 6	063 and 102	81102, 85101, 82203, 82308, 82403.
Anderson RAAS	PM2.5 Particulate	1 or 2	780	68108, 68107, 68106, 68105, 68104, 68103, 68101, 68109, 68102
Anderson RAAS	PM2.5 Particulate	1 or 2	120	88101
Met One SASS	Speciated PM2.5	11 or 12	812	88301, 88306, 88302, 88403.
Met One SASS	Speciated PM2.5	11 or 12	810	68108, 68107, 68106, 68105, 68104, 68103, 88502.
Met One SASS	Speciated PM2.5	11 or 12	780	68101, 68109, 68102.
Met One SASS	Speciated PM2.5	11 or 12	811	88102, 88103, 88107, 88110, 88111, 88118, 88115, 88112, 88113, 88114, 88126,88128, 88132, 88134, 88136, 88152, 88180, 88176, 88154, 88165, 88168, 88169, 88160, 88161, 88179, 88164, 88183, 88167.
Met One SASS	Speciated PM2.5	11 or 12	816	88380, 88383, 88384, 88385, 88370, 88374, 88375, 88376, 88377.
Xontech 924	CR6	4 or 5	920	12115
Xontech 924	Carbonyls	4	102	43502, 43503.
Xontech 924	Metals	2 or 4	110	85102, 85103, 85105, 85110, 85128, 85132, 85136.

¹ Sampler and monitor locations along with specific method codes are identified in the detailed site plans, Appendix B

APPENDIX C

PM2.5 Continuous Monitor Comparability Assessment and Request for Waiver

Introduction

The SCAQMD monitoring program has historically operated PM2.5 continuous monitors primarily to support forecasting and reporting of the Air Quality Index (AQI). These monitors supply data every hour to update the AQI on our web site as well as national web sites such as AirNow (www.airnow.gov). SCAQMD has been using these monitors since the early part of the last decade as the PM2.5 monitoring program was implemented. Over the last few years, a number of PM2.5 continuous monitors have been approved as Federal Equivalent Methods (FEMs). By utilizing an approved FEM, any subsequent data produced from the method may be eligible for comparison to EPA's health based standard known as the NAAQS. The primary advantage of operating a PM2.5 continuous FEM is that it can support the AQI, while also supplying data that are eligible for comparison to the NAAQS. Thus, a network utilizing PM2.5 continuous FEMs can potentially lower the number of filter-based FRMs operated in the network, which are primarily used for comparison to the NAAQS. These filter-based FRMs are resource intensive in that they require field operations as well as pre- and post-sampling laboratory analysis which results in data not being available for approximately 2-4 weeks after sample collection.

The SCAQMD monitoring program has been evaluating PM2.5 continuous FEMs over the past several years. Although the PM2.5 continuous FEMs are automated methods, these methods still require careful attention in their set-up, operation, and validation of data. Once enough data was collected, we began to evaluate the performance of these methods compared to collocated FRMs. That evaluation is explained further below and includes our request regarding the use of the data from these methods.

Request for Exclusion of PM2.5 Continuous FEM data from Comparison to the NAAQS

The network technical requirements for requesting exclusion of data from comparison to the NAAQS are identified in 40 CFR §58.11(e). These requirements refer to the performance criteria

described in Table C-4 to subpart C of part 53. To accommodate the differences in how routine monitoring agencies operate their networks, several additional provisions are described in §58.11(e). When a topic is not addressed in §58.11(e), then the test specifications from table C-4 applies.

As shown in the Table below, the slopes of the regression between collocated FRM and FEM measurements at the Anaheim, Central Los Angeles, North Long Beach, South Long Beach, and Rubidoux (POC 3) stations are higher than 1.1, which is outside the test specification indicated in \$53 Table C-4 (i.e. slope = 1 ± 0.1). Although the slope criteria was met for Anaheim, Rubidoux, and Mira Loma (Central LA and South Long Beach failed intercept test), the intercept of the regression relationship between FRM and FEM data of ± 2.0 (also indicated in \$53 Table C-4) failed for Anaheim (5.06), Central LA (4.51), Rubidoux (3.37), and Mira Loma (4.98). Failure of one or both criteria in the EPA equivalency acceptance "box test" was observed at all FEM/FRM paired sites in the SCAQMD jurisdiction for PM2.5 monitoring.

Thus, in accordance with the PM NAAQS rule published on January 15th, 2013 (78 FR 3086) and specific to the provisions detailed in §58.10 (b)(13) and §58.11 (e), SCAQMD is requesting that data from the all of the SCAQMD FEM PM2.5 monitors be set aside for comparison to the NAAQS. While SCAQMD is working to optimize the monitoring instrumentation to meet all of our monitoring objectives, the performance is not yet at a point where the comparability of the PM2.5 continuous FEMs operated in our network compared to collocated FRMs is acceptable. After assessing the comparability of the PM2.5 FEMs to the collocated FRMs for our network, the sites listed below do not meet the comparability requirements. Detailed one-page assessments from which the information described below was obtained are included at the end of this section.

Table – Request for Exclusion of PM2.5 Continuous FEM Data

Site Name	City	Site ID	Cont POC	Cont Method Description	PM _{2.5} Cont Begin Date	PM _{2.5} Cont End Date	Continuous/ FRM Sampler Pairs Per Season	Slope (m)	Intercept (y)	Meets Bias Requirement	Correlation (r)
			Sites	with PM _{2.5} continuous	FEMs tha	t are collo	cated with FRM	S			
Anaheim	Anaheim	06-059- 0007	3	Met-One BAM 1020 w/VSCC	01/01/ 2013	12/31/ 2015	Winter = 241 Spring = 252 Summer = 241 Fall = 214 Total = 948	0.99	5.06	No	0.85
Central Los Angeles	Los Angeles	06-037- 1103	3	Met-One BAM 1020 w/VSCC	01/01/ 2013	11/16/ 2015	Winter = 232 Spring = 244 Summer = 236 Fall = 211 Total = 923	1.18	4.51	No	0.91
South Long Beach	Long Beach	06-037- 4004	3	Met-One BAM 1020 w/VSCC	01/03/ 2013	12/31/ 2015	Winter = 201 Spring = 248 Summer = 253 Fall = 243 Total = 945	1.21	1.22	No	0.91
Riverside/ Rubidoux	Rubidoux	06-065- 8001	9	Met-One BAM 1020 w/PM2.5 SCC	01/01/ 2013	12/31/ 2015	Winter = 232 Spring = 244 Summer = 255 Fall = 247 Total = 978	1.12	2.86	No	0.62
Mira Loma	Riverside	06-065- 8005	3	Met-One BAM 1020 w/VSCC	01/01/ 2013	12/31/ 2015	Winter = 262 Spring = 236 Summer = 245 Fall = 232 Total = 975	0.99	4.98	No	0.89

Period of Exclusion of Data from the PM2.5 Continuous FEMs

The above table details the period of available data by monitor on which the request to exclude PM2.5 continuous FEM data is based. Per EPA Regional Office approval, these data will be entered into EPA's AQS database in a manner where the data are only used for the appropriate monitoring objective(s) (i.e., use data for just the AQI). Additionally, SCAQMD will continue to load any new data generated for the next 18 months (intended to represent the period until December 31 of 2017) in the same manner or until such time we request and receive approval from the EPA Regional Office to change the status of these monitors.

PM2.5 Continuous FEM data for Reporting the AQI

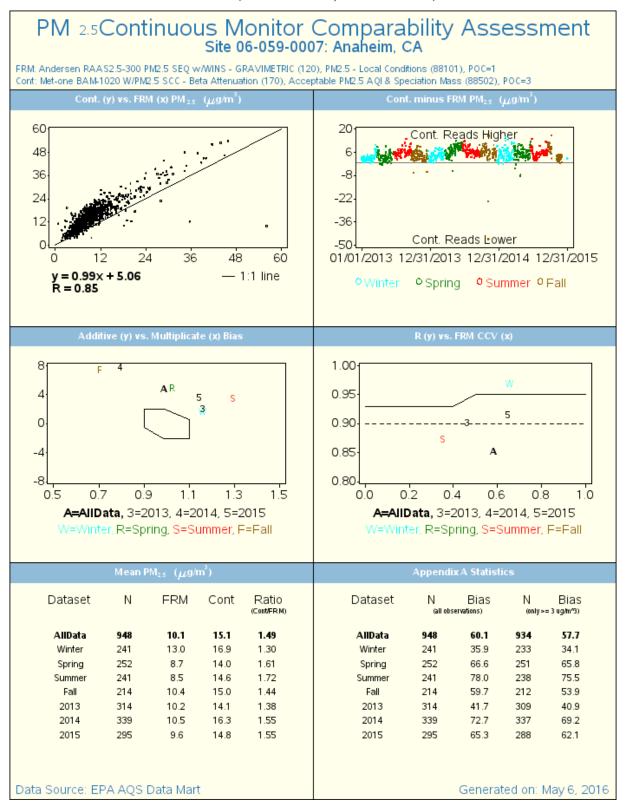
While the analysis supports the request for the monitors above not be used for comparison to the NAAQS, the data are of sufficient comparability to collocated FRMs that they be used for public AQI reporting. Therefore, with EPA Regional Office approval we will report these data on our web site and to AIRNow (www.airnow.gov). As such, data submitted to EPA's AQS database will be under "acceptable AQI" reporting (i.e., parameter code 88101) so that data users will know that these data are appropriate for use in AQI calculations, but not NAAQS comparison.

Assessments

The following one-page assessments are locations where our agency has collocated PM2.5 FRM and continuous FEM monitors. Each of these assessments is represented in the "Table – Request for Exclusion of PM2.5 Continuous FEM Data" above.

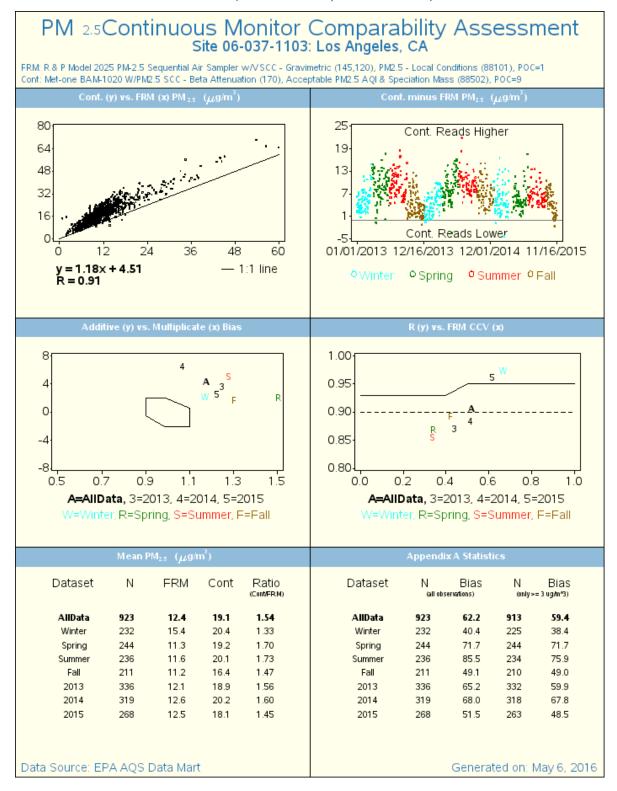
Anaheim

(FRM POC: 1; FEM POC: 3)



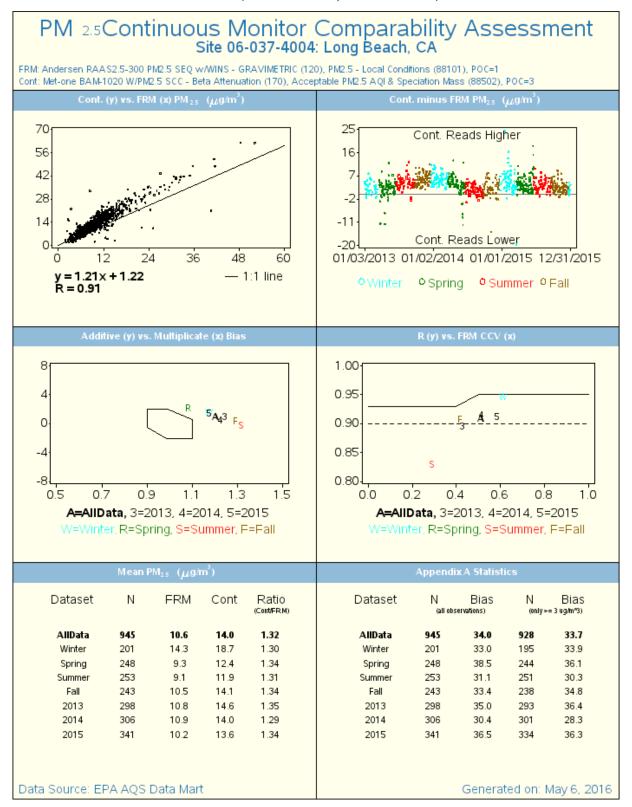
Central Los Angeles

(FRM POC: 1; FEM POC: 9)



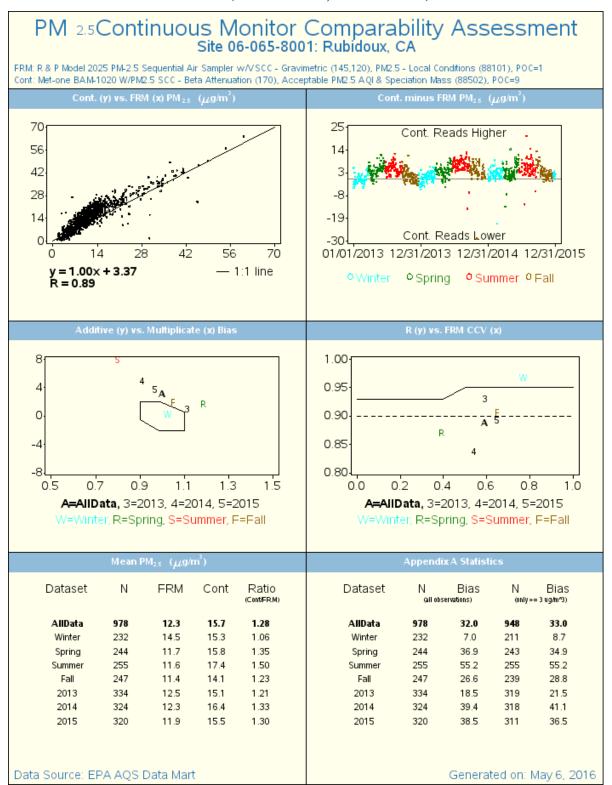
South Long Beach

(FRM POC: 1; FEM POC: 3)



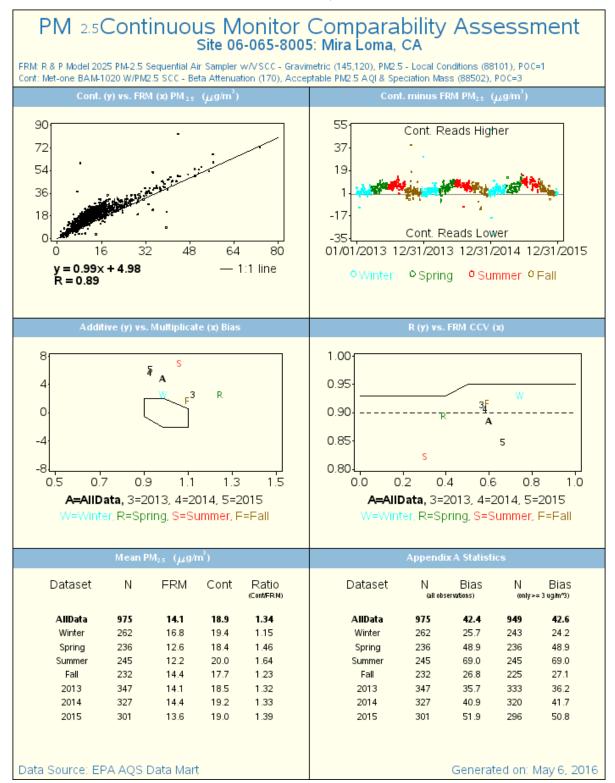
Rubidoux

(FRM POC: 1; FEM POC: 9)



Mira Loma

(FRM POC: 1; FEM POC: 3)



APPENDIX D

NETWORK WAIVER REQUESTS

Burbank

The Palm Avenue Burbank air monitoring site was decommissioned During June, 2014 at the request of the property owner by means of non-extension of lease. Currently SCAQMD is working with LADWP to relocate to a site within one mile of the former site. EPA was informed of this closure via email in prior to its closure.

At the time of closure, the Burbank was the DV location for the Los Angeles CBSA with a 24 hour value of 30.8 ug/m3 and Mira Loma the basin DV at 36.6 ug/m3. This year the DV site for the Los Angeles is the Los Angeles Main site at 32.0 ug/m3 and basin DV Mira Loma at 36.6 ug/m3. SCAQMD is working in consultation with EPA to establish a new site to represent Burbank in FY 2015-2016. It is requested a waiver be granted for suspension of monitoring until a suitable replacement site can be located. This request is per 40 CFR 58.14 (c)(6) which states

A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site.

Even with the site closure, SCAQMD exceeds the minimum monitoring requirements for all criteria pollutants and monitoring programs.

North Long Beach

The North Long Beach air monitoring site was decommissioned during September, 2013 at the request of the property owner by means of non-extension of lease. Currently SCAQMD is working with Long Beach Public Health to locate a suitable site within one mile of the former site. EPA was informed of this closure via email prior to closure. In consultation with EPA Compton was designated as a RA-40 NO2 site. A separate smaller site at the rear of the facility remains open measuring PM2.5 FRM particulate only. It is requested a waiver be granted for suspension of monitoring until a suitable replacement site can be located. This request is per 40 CFR 58.14 (c)(6) which states

A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site.

Even with the site closure, SCAQMD exceeds the minimum monitoring requirements for all criteria pollutants and monitoring programs. SCAQMD is working in consultation with EPA to establish a new site to represent Burbank in FY 2015-2016. It is requested a waiver be granted for suspension of monitoring and formal designation of Compton as a RA-40 NO2 site until a suitable replacement site can be located.

Ontario

The Ontario (Fire Station) air monitoring site was decommissioned during June, 2014 at the request of the property owner by means of non-extension of lease. Currently SCAQMD is working with San Bernardino County Public Health to consolidate measurements with nearby sites. EPA was informed of this closure via email prior to its closure. At the time of closure, Ontario was a collocated site for PM10. In order to meet the minimum collocation requirements a PM10 was relocated to the Mira Loma (Van Buren) site. It is requested a waiver be granted for suspension of monitoring until a suitable replacement site can be located under 40 CFR 58.14 (c)(6) which states

A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site.

Even with the site closure, SCAQMD exceeds the minimum monitoring requirements for all criteria pollutants and monitoring programs. It is requested a waiver be granted to discontinue monitoring at Ontario.

Riverside Magnolia

The Riverside Magnolia air monitoring site was decommissioned during March 2015 at the end of the lease due to safety issues. Specifically the monitoring site was assessed and determined the roof was inadequate to safely maintain the weight of the air monitoring equipment and platform. Additionally, the interior ceiling contained asbestos and side walls were in a state of deterioration. Currently SCAQMD is assessing relocation of the site and considering underrepresented areas identified in the 5 year network assessment. EPA was informed of this closure via email prior to its closure. It is requested a waiver be granted for suspension of monitoring until a suitable replacement site can be located under 40 CFR 58.14 (c)(6) which states

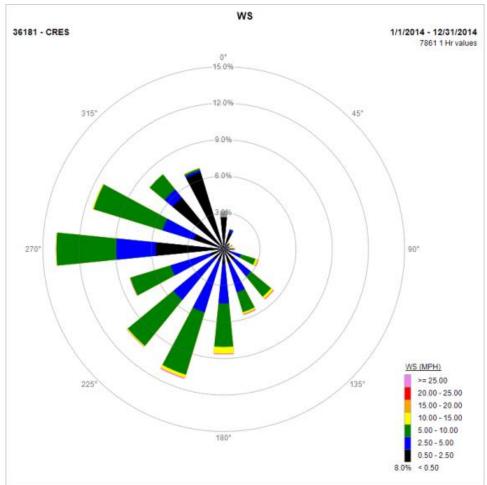
A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site.

Due to safety issues at the site, along with the owner's inability to resolve the issues, it is requested a waiver be granted to discontinue monitoring until a suitable replacement site is identified. Even with the site closure, SCAQMD exceeds the minimum monitoring requirements for all criteria pollutants and monitoring programs.

Crestline

The Crestline air monitoring site is located on the grounds of the Lake Gregory, San Bernardino County Regional Park within the San Bernardino National Forest. The site began operation in October, 1973 and has at times been a design value site for ozone. Since the time of its

inception, trees adjacent to the facility have grown to a height greater than the inlet probe. Because these trees are parallel to the site a majority of the time they are not considered an obstruction per 40 CFR 58 Appendix E. Readings remain unaffected since the nearest tree is at 10 meters from the inlet probe and the predominant wind direction is from the west. A wind rose showing direction for 2014 is shown below. 40 CFR 58 Appendix E 10.1.1 states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met. Section 10.1.2 also states a waiver can be granted if, "The monitor or probe cannot reasonably be located so as to meet the siting criteria because of physical constraints (e.g., inability to locate the required type of site the necessary distance from roadways or obstructions)." Furthermore, the current site maintains a historical trend dating back to October, 1973 which adds support to the waiver request. It is requested a waiver be granted for siting at Crestline based on predominant wind direction, probe being in the optimal location for the site, along with the historical trend dating back to October 1973.



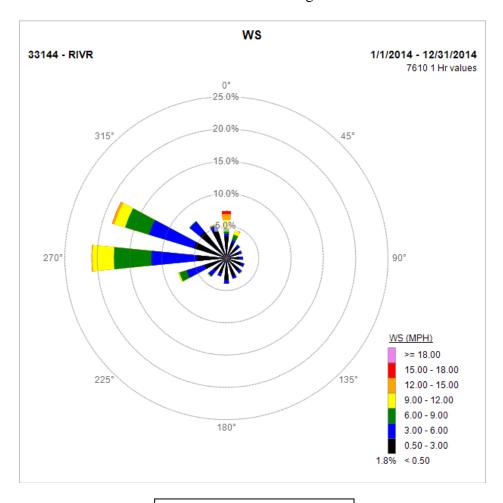
Crestline Wind Data 2014



Crestline Satellite View

Rubidoux

The Rubidoux air monitoring site is located on property owned by Southern California Edison. The site began operation in September, 1972. Since that time trees north east of the particulate samplers have grown to a height exceeding siting criteria; however measurements remain unaffected since the predominant wind direction is parallel to trees. Contract revisions with Southern California Edison are expected to be completed during December, 2016 which will allow for extra space to move the particulate samplers further from trees to meet EPA siting criteria. A waiver is requested based on 40 CFR 58 Appendix E 10.1.1 which states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met. Section 10.1.2 also states a waiver can be granted if, "The monitor or probe cannot reasonably be located so as to meet the siting criteria because of physical constraints (e.g., inability to locate the required type of site the necessary distance from roadways or obstructions)." Furthermore, the current site maintains a historical trend dating back to September, 1972 which adds support to the waiver request. It is requested a waiver be granted for siting at Rubidoux to continue monitoring until contract modifications are completed and monitors can be moved to meet EPA siting criteria.



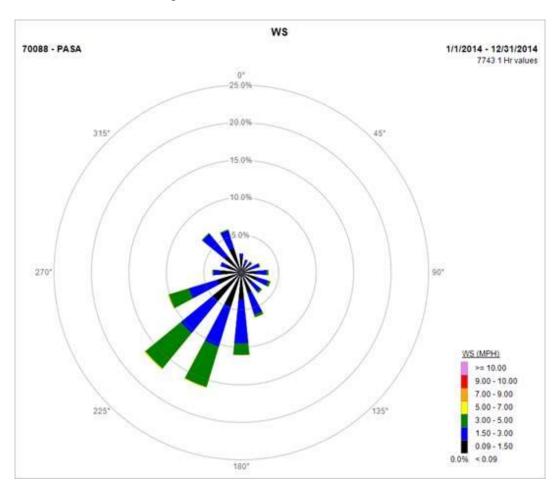
Rubidoux Wind Data 2014



Rubidoux Satellite View

Pasadena

The Pasadena air monitoring site is located on property owned by Caltech Pasadena. The site began operation in April, 1982. Since that time trees east and west of the particulate samplers have grown to a height exceeding siting criteria and while they can be considered an obstruction, it is requested a waiver be granted to continue morning based on population exposure. Longer term, the site was examined in the 5 year network assessment for consolidation with nearby sites. Decisions regarding site consolidation will be made in consultation with EPA Region IX representatives. Section 10.1.2 states a waiver can be granted if, "The monitor or probe cannot reasonably be located so as to meet the siting criteria because of physical constraints (e.g., inability to locate the required type of site the necessary distance from roadways or obstructions)." Furthermore, the current site maintains a historical trend dating back to April, 1982 which adds support to the waiver request. It is requested a waiver be granted for siting at Pasadena to continue monitoring until a suitable site, or location to consolidate can be secured.



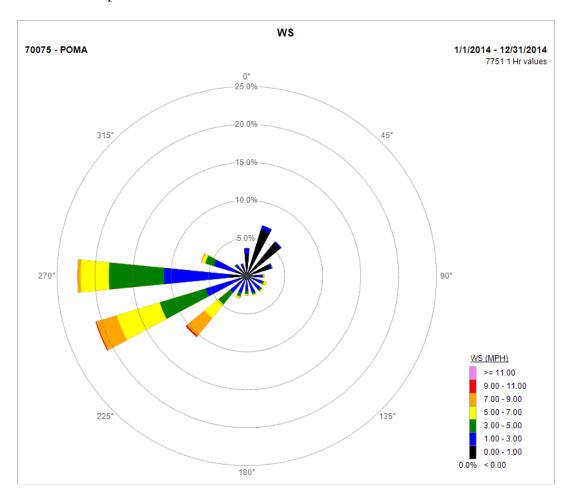
Pasadena Wind Data 2014



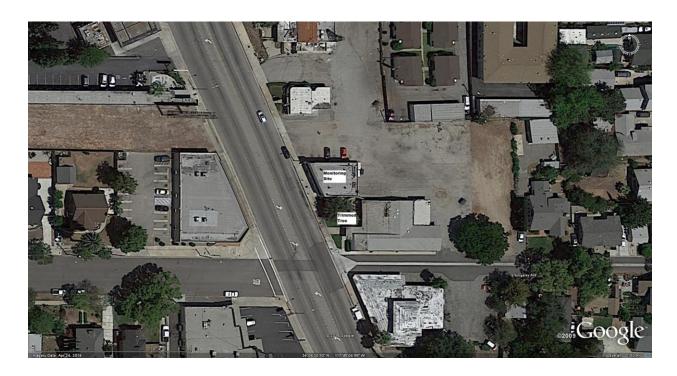
Pasadena Satellite View

Pomona

The Pomona air monitoring site has been in operation since June, 1965. The site was originally a microscale site for carbon monoxide. Since the time of inception it was noted trees south of the site grew to be an obstruction, however they were trimmed during December, 2014 to a height below the inlet. It is requested a waiver be granted for Pomona based on site maintenance completed and data continuity until the 5 year network assessment is complete and further discussions can take place to consolidate or close the site.



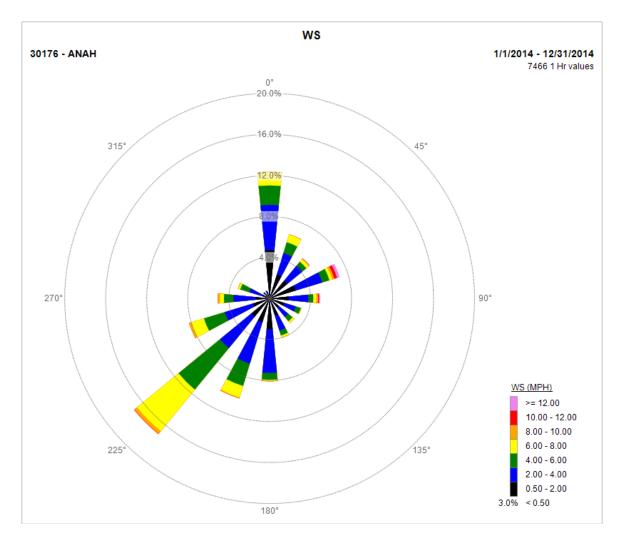
Pomona Wind Data 2014



Pomona Satellite View

Anaheim

The Anaheim air monitoring site is located on Anaheim City School District property. The site began operation in August, 2001. The site was originally anticipated as a temporary location however since then it has become permanent. Because of this there are siting issues including palm trees and proximity to the nearest traffic lane of the residential street (at 8m north from the inlet probes). Measurements remain unaffected due to predominant wind. The majority of the time the wind direction is from the south, the palm trees are minimal obstruction, and traffic is residential. A waiver is requested based on 40 CFR 58 Appendix E 10.1.1 which states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met." Furthermore, the current site maintains a historical trend dating back to August, 2001 which adds support to the waiver request. Longer term the site is scheduled to be renovated placing the inlet probes at greater than 10m from the traffic lanes and trees.



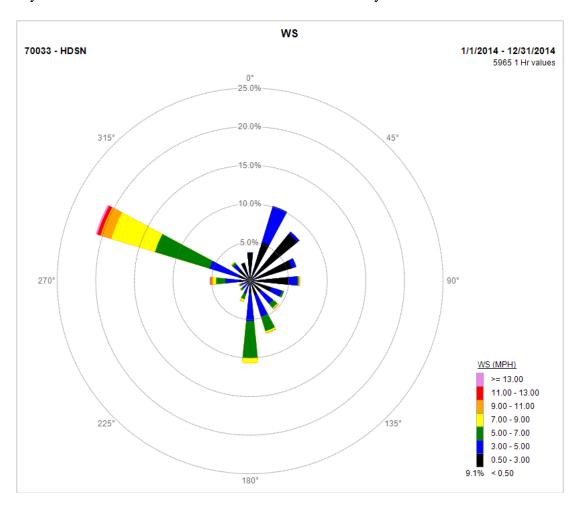
Anaheim Wind Data 2014



Anaheim Satellite View

Hudson

The Hudson air monitoring site is located on Long Beach Unified School District property. The site began operation as part of the MATES IV project. The site was originally anticipated as a temporary location however since then it has become permanent, monitoring potential emissions from the nearby the ports of Los Angeles, Long Beach and Terminal Island Freeway. Because of this there are siting issues including proximity to the nearest traffic lane. Measurements remain unaffected since the predominant wind direction is from the south west and the roadway is to the east. A waiver is requested based on 40 CFR 58 Appendix E 10.1.1 which states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met." Longer term the site is being examined closely in the 5 year network assessment for consolidation with nearby sites.



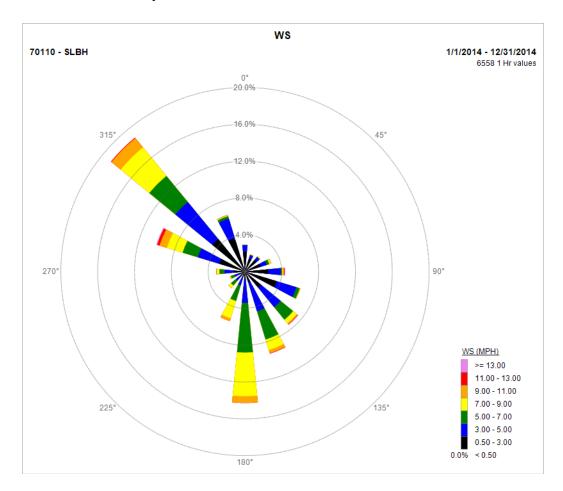
Hudson Wind Data 2014



Hudson Satellite View

South Long Beach

The South Long Beach air monitoring site is located on the Long Beach City College campus. The site was established to focus on particulate emissions from the Ports of Long Beach and Los Angeles. Since the inception of the site, the college has expanded, storing temporary containers nearby, constructing new buildings and expanding parking. Because of this there are potential siting issues A waiver is requested based on 40 CFR 58 Appendix E 10.1.1 which states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met." Longer term the site is being examined for consolidation with nearby sites.



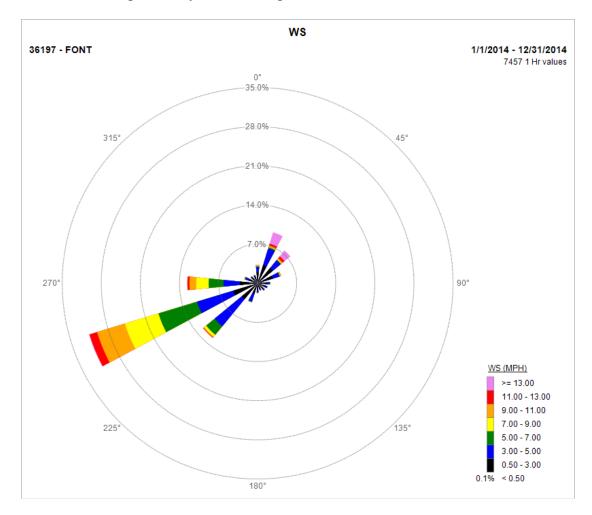
South Long Beach Wind Data 2014



South Long Beach Satellite View

Fontana

The Fontana air monitoring site has been in operation since August, 1981. Since the time of inception it was noted a wall downwind of the site exceeded the height of the inlet probes as did a nearby building. The adjacent wall and building are greater than the 2m minimum distance requirement and meet the, "twice the height that the obstacle protrudes above the probe, inlet, or monitoring path" requirement in 40 CFR 58 Appendix E. Measurements remain unaffected since the predominant wind direction is from the south west. A waiver is requested based on 40 CFR 58 Appendix E 10.1.1 which states a waiver can be granted if, "The site can be demonstrated to be as representative of the monitoring area as it would be if the siting criteria were being met." Recently, the San Bernardino County Fire Department has relocated from the facility and City of Fontana has taken responsibility for the site. Future plans are uncertain at the site and the site could potentially be sold to a private owner.



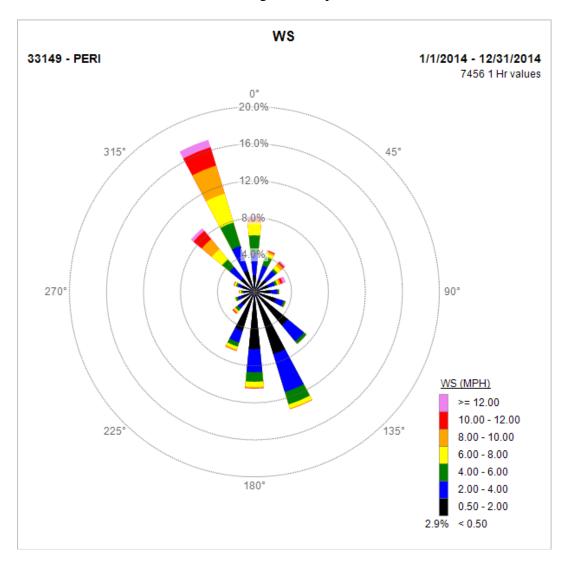
Fontana Wind Data 2014



Fontana Satellite View

Perris

The Perris air monitoring site has been in operation since August, 1981. Since the time of inception it was noted the nearby building and new fences have become an obstruction. While the nearby fences and building are an obstruction, A waiver is requested based on 40 CFR 58 Appendix E 10.1.2 which states a waiver can be granted if, "The monitor or probe cannot reasonably be located so as to meet the siting criteria because of physical constraints (e.g., inability to locate the required type of site the necessary distance from roadways or obstructions)." Furthermore, the current site maintains a historical trend dating back to August, 1981 which adds support to the waiver request. It is requested a waiver be granted for siting at Perris to continue monitoring until a new site is located to represent the Perris community which will be selected in consultation with EPA Region IX representatives.

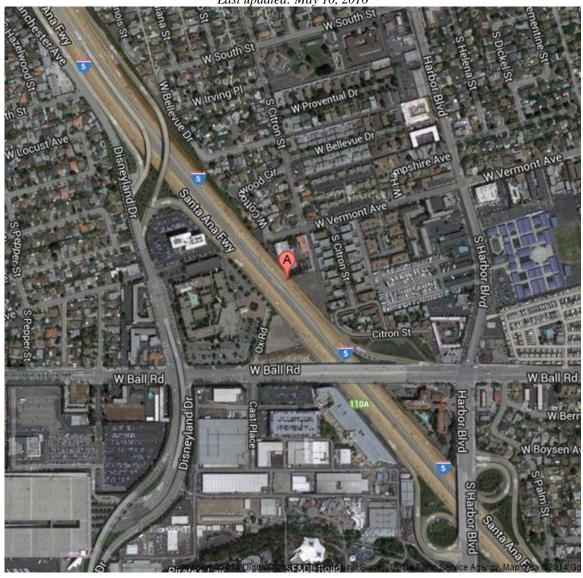


Perris Wind Data 2014



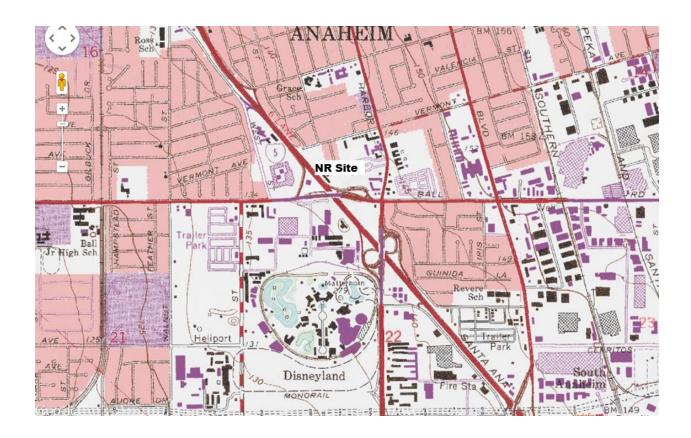
Perris Satellite View

South Coast AQMD Site Survey Report for Anaheim Route 5-Near Road Last updated: May 10, 2016



Site Address	County	Air Basin	Latitude	Longitude	Elevation
812 W. Vermont St.	Orange	South Coast	33.819305	-117.918759	43.6m

AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060590008	30031	01/14	South Coast AQMD (061)



Local site name	Anaheim		Near Road			
AQS ID	06059000					
GPS coordinates (decin			le: 33.819305 Longitude: -117.918759			
Street Address	<i>U</i> /		Vermont Street, Anaheim, CA 92802			
County		Orange	•			
Distance to roadways (r	neters)	9.0 meter	S			
Traffic count (AADT, y		695776 (FEAADT)			
Groundcover	,	Asphalt	,			
(e.g. asphalt, dirt, sand)		_				
Representative statistica	al area name	31080-Lo	os Angeles-Long Beach-A	Anaheim, MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Nitrogen Dio	oxide, 1	Carbon Monoxide, 1			
Parameter code	42602		42101			
Basic monitoring	NAAQS		NAAQS			
objective(s)						
Site type(s)	Population E		Population Exposure			
Monitor (type)	SLAMS\Nea	r Road	SLAMS\Near Road			
Instrument	Thermo 42i		Thermo 48i-TLE			
manufacturer and						
model						
Method code	074		554			
FRM/FEM/ARM/	FRM		FRM			
other						
Collecting Agency	SCAQMD		SCAQMD			
Analytical Lab	N/A		N/A			
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD		SCAQMD			
Spatial scale (e.g.	Micro		Micro			
micro, neighborhood)	01/0014		12/2014			
Monitoring start date (MM/DD/YYYY)	01/2014		12/2014			
Current sampling	1:1		1:1			
frequency (e.g.1:3,						
continuous)						
Calculated sampling	N/A		N/A			
frequency						
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31			
(MM/DD-MM/DD)	1					
Probe height (meters)	4.5		4.5			
Distance from	1.9		1.9			
supporting structure						
(meters)	DT/A		NT/A			
Distance from	N/A		N/A			
obstructions on roof						
(meters)	NI/A		NI/A			
Distance from obstructions not on	N/A		N/A			
roof (meters)						
1001 (Illeters)			1			

Distance from trees	N/A	N/A	
	N/A	IN/A	
(meters)	27/4	27/4	
Distance to furnace or	N/A	N/A	
incinerator flue			
(meters)			
Distance between	N/A	N/A	
collocated monitors			
(meters)			
Unrestricted airflow	360°	360°	
(degrees)			
Probe material for	Teflon	Teflon	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	6.8	6.8	
reactive gases			
(seconds)			
Will there be changes	No	No	
within the next 18			
months? (Y/N)			
Is it suitable for	N/A	N/A	
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	N/A	N/A	
rate verification for			
manual PM samplers			
Frequency of flow	N/A	N/A	
rate verification for			
automated PM			
analyzers			
Frequency of one-	Nightly	Nightly	
point QC check for			
gaseous instruments			
Last Annual	05/27/2015	05/27/2015	
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	N/A	N/A	
flow rate audits for			
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

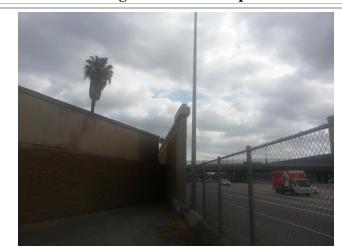
Anaheim-Near Road Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Anaheim-Near Road Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



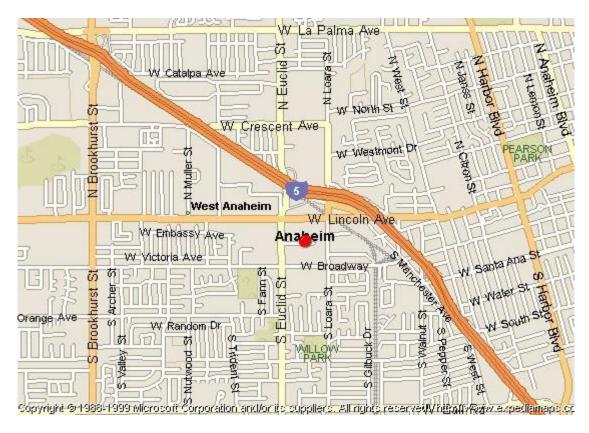
Looking at the probe from the South.

Unavailable due to freeway

Looking at the probe from the West.

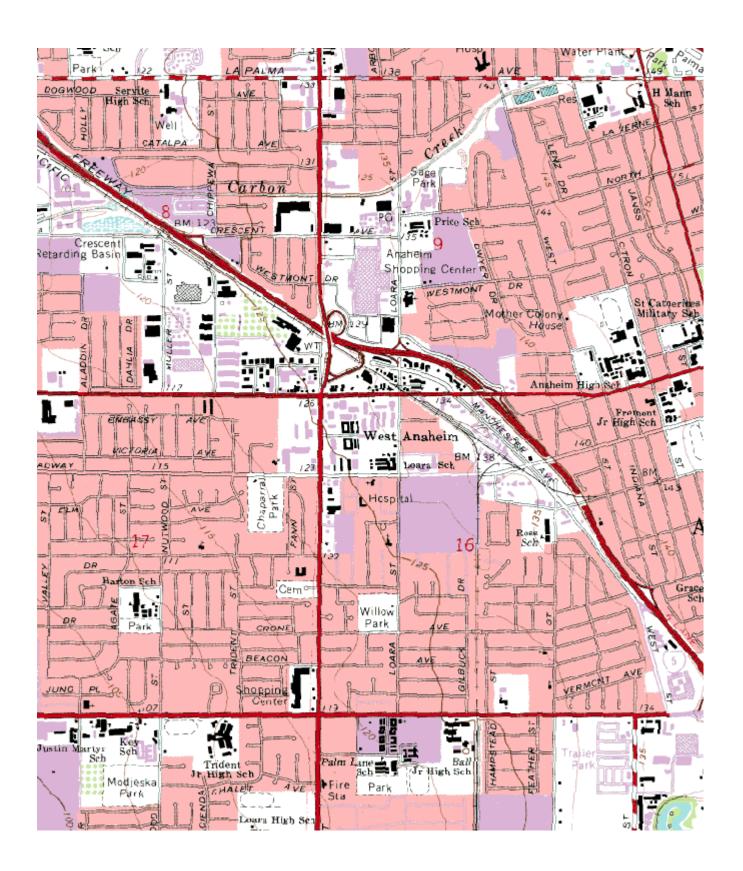
South Coast AQMD Site Survey Report for Anaheim-Loara School

Last updated: May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
06059007	30178	08/2001	South Coast AQMD (061)

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



Local site name		Anaheim	naheim-Loara School				
AQS ID	AQS ID 0605		07				
	GPS coordinates (decimal degrees) L		33° 49' 50" Longitude:	117° 56' 18"			
Street Address			npas Ln, Anaheim, CA 9				
County		Orange	•				
Distance to roadways (1	neters)		5; 420 meters				
Traffic count (AADT, y			012; I-5/Euclid, 256,000	, I-5, 2011			
Groundcover	-	Grass					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	31080-L	os Angeles-Long Beach-	Anaheim, MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 5	Ozone, 1	PM10, 1		
Parameter code	42101		42602	44201	See Table 26		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	Thermo 49i	GMW 1200 SSI		
manufacturer and							
model							
Method code	158		074	047	063, 102		
FRM/FEM/ARM/	FRM		FRM	FEM	FRM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	SCAQMD		
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Urban	Neighborhood	Neighborhood		
micro, neighborhood)	00/2004		00/2004	00/2004	00/2004		
Monitoring start date (MM/DD/YYYY)	08/2001		08/2001	08/2001	08/2001		
Current sampling	1:1		1:1	1:1	1:6		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A	N/A	1:6		
frequency							
(e.g. 1:3/1:1)	04/04/12/5		04/04/40/61	04/04/49/21	04/04/42/51		
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
Probe height (meters)	4.5		4.5	4.5	2.5		
Distance from	1.9		1.9	1.9	1.5		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Distance from trees (meters)	6 (palm tree)	6 (palm tree)	6 (palm tree)	6 (palm tree)
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	2.8
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	5.6	6.8	6.7	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	05/22/2015	05/22/2015	05/22/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	6/4/2015, 11/19/2015

Pollutant, POC	Continuous PM10, 3	Continuous PM2.5, 3	Speciated PM2.5, 11	24 Hour PM2.5, 1
Parameter code	81102	88101	See Table 26	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor (type)	SLAMS	SLAMS	SLAMS	SLAMS

Instrument	Met One BAM 1020	Met One BAM 1020	Met One SASS	Andersen RAAS
manufacturer and				PM2.5
model				
Method code	122	170	See Table 26	780, 120
FRM/FEM/ARM/	FEM	FEM	Other	FRM
other				1
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	N/A	N/A	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				8
Monitoring start date	03/04/2010	08/2001	08/2001	08/2001
(MM/DD/YYYY)				
Current sampling	1:1	1:1	1:6	1:1
frequency (e.g.1:3,				
continuous)				
Calculated sampling	N/A	N/A	No CFR mandated	1:3
frequency			sampling schedule.	
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	4.8	4.8	2.9	2.9
Distance from	2.2	2.2	2.2	1
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	6 (palm tree)	6 (palm tree)	6 (palm tree)	6 (palm tree)
(meters)				
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)				
Distance between	2.8	3.9	N/A	3.9
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				

Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	No, unless manual sampler has missing data.	N/A	Yes
Frequency of flow rate verification for manual PM samplers	N/A	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	Monthly	Monthly	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	06/27/2015, 12/10/2015	06/27/2015, 12/10/2015	06/27/2015, 12/10/2015	06/04/2015, 11/19/2015

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.



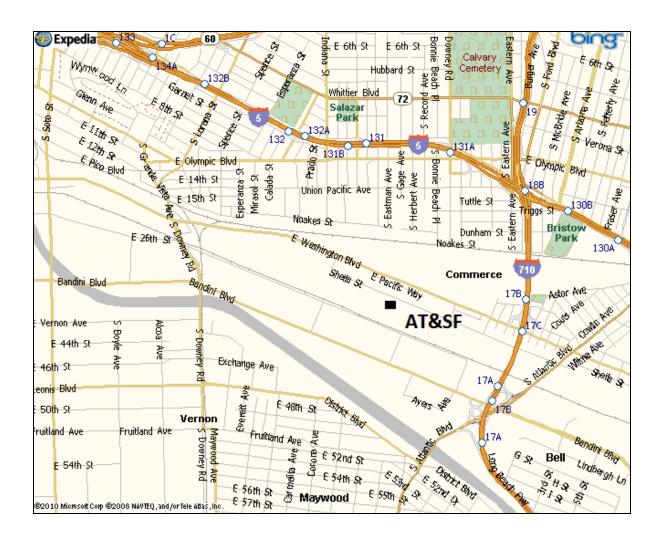
Looking at the probe from the South.



Looking at the probe from the West.

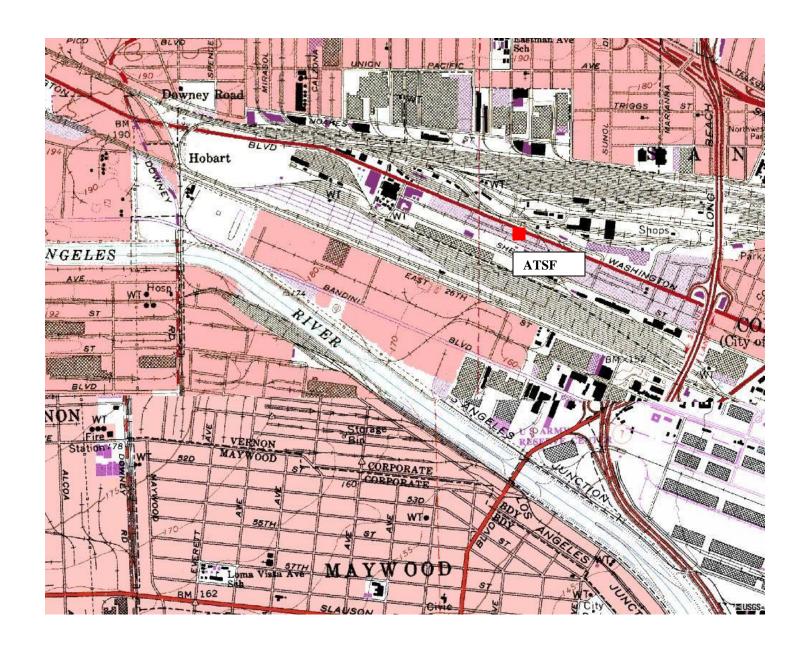
Quality Assurance Site Survey Report for AT&SF (Exide)

Last updated May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371406	70042	01/01/1999	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" N	118° 11' 26"W	53 m



Local site name		AT&SF				
AQS ID		060371406				
GPS coordinates (decim	nal degrees)	Latitude: 34° 00'30" Longitude: -118° 11' 26"				
Street Address	<i>U</i> /	Railroad yard off Washington Blvd, Commerce, CA				
County		Los Ange				
Distance to roadways (r	neters)		ashington Blvd.)			
Traffic count (AADT, y		38,513 /				
Groundcover	,		Dirt/Asphalt			
(e.g. asphalt, dirt, sand)			•			
Representative statistica	al area name	31080-L	Los Angeles-Long Beach-Anaheim, MSA			
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Lead, 1					
Parameter code	14129					
Basic monitoring	NAAQS					
objective(s)						
Site type(s)	Source Oriei	nted				
Monitor (type)	SLAMS					
Instrument	Hi-Q TSP					
manufacturer and						
model						
Method code	110					
FRM/FEM/ARM/	FRM					
other						
Collecting Agency	SCAQMD					
Analytical Lab	SCAQMD					
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD					
Spatial scale (e.g.	Micro					
micro, neighborhood)						
Monitoring start date	01/01/1999					
(MM/DD/YYYY)	1.0					
Current sampling	1:3					
frequency (e.g.1:3, continuous)						
Calculated sampling	1;6					
frequency	1,0					
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31					
(MM/DD-MM/DD)	51,01 12,31					
Probe height (meters)	3.5					
Distance from	1					
supporting structure						
(meters)						
Distance from	N/A					
obstructions on roof						
(meters)						
Distance from	N/A					
obstructions not on						
roof (meters)						

	1	T	T
Distance from trees (meters)	N/A		
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow	360°		
(degrees)			
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18			
months? (Y/N)			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	Monthly		
rate verification for			
manual PM samplers			
Frequency of flow	N/A		
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A		
point QC check for			
gaseous instruments			
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)	06/2/2015		
Last two semi-annual	06/3/2015;		
flow rate audits for	11/25/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

Exide - ATSF Site Photos (Cont.)



Looking at the probe to the West.



Looking from the probe to the East.



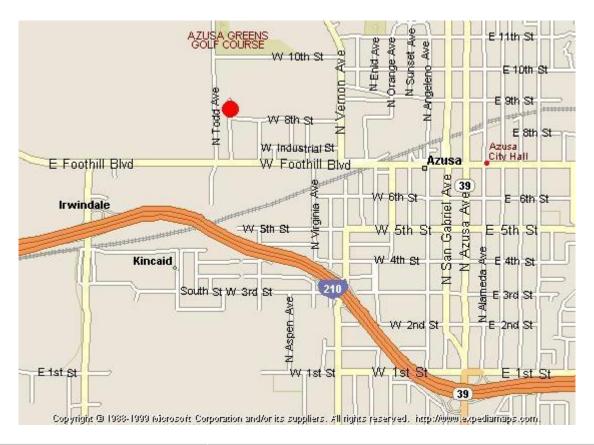
Looking from the probe to the South.



Looking from the probe to the North.

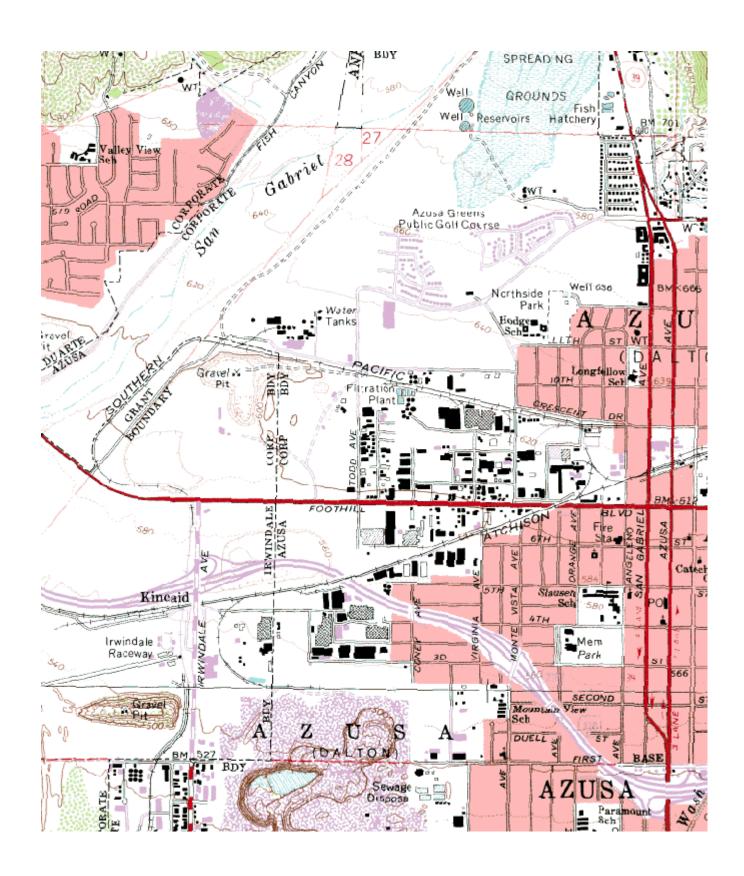
South Coast AQMD Site Survey Report for Azusa

Last updated: May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060370002	70060	01/1957	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"N	117° 55' 26"W	187



Local site name		Azusa				
	AQS ID		02			
GPS coordinates (decin	nal degrees)	Latitude: 34° 08' 11" Longitude: 117° 55' 26"				
Street Address	<i>U</i> /	803 N Loren Ave, Azusa, CA 91702				
County	County L		eles			
Distance to roadways (r	neters)	14.5 – 18				
Traffic count (AADT, y			2012; Route 210/Irwinda	le, 266,000, 2011		
Groundcover	,	Asphalt				
(e.g. asphalt, dirt, sand)		_				
Representative statistical area name 31080-Los Angeles-Long Beach-Anaheim, MSA						
(i.e. MSA, CBSA, other)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1	PM10, 2	
Parameter code	42101		42602	44201	See Table 26	
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS	
objective(s)						
Site type(s)	Population E	Exposure	Population Exposure	Highest	Population Exposure	
				Concentration		
Monitor (type)	SLAMS		SLAMS/PAMS	SLAMS/PAMS	SLAMS	
Instrument	Horiba APM	IA 370	Thermo 42i	API/Teledyne 400E	Sierra Andersen 1200	
manufacturer and					SSI	
model	150		07.4	07	062 102	
Method code	158		074	87	063, 102	
FRM/FEM/ARM/	FRM		FRM	FEM	FRM	
other Collecting Agency	CCAOMD		SCAQMD	SCAQMD	SCAQMD	
Analytical Lab	SCAQMD N/A		N/A	N/A	SCAQMD	
(i.e.weigh lab, toxics	IN/A		IV/A	IN/A	SCAQIVID	
lab, other)						
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhoo	od	Urban	Urban	Neighborhood	
micro, neighborhood)					<i>B</i>	
Monitoring start date	01/1957		01/1957	01/1957	01/01/1985	
(MM/DD/YYYY)						
Current sampling	1:1		1:1	1:1	1:6	
frequency (e.g.1:3,						
continuous)						
Calculated sampling	N/A		N/A	N/A	1:6	
frequency						
(e.g. 1:3/1:1)	0.1.10.1.10.10.1		0.1/0.1 1.0/0.1	0.1/0.1.1.0/0.1	0.1/0.1.10/0.1	
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)	5.5			5.5	5.1	
Probe height (meters)	5.5		5.5	5.5	5.1	
Distance from supporting structure	2				\ \(\triangle \)	
(meters)						
Distance from	N/A		N/A	N/A	N/A	
obstructions on roof	14/11		11/11	11/11	11/11	
(meters)						
Distance from	N/A		N/A	N/A	N/A	
obstructions not on						
roof (meters)						
· '	·		1	<u> </u>	1	

Distance from trees (meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	7.0	8.8	7.9	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	02/25/2015	02/25/2015	02/25/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	04/17/2015, 11/6/2015

		VOCs 8x3, 1	VOCs 24 hour, 2
	Carbonyls, 4		
See Table 26	N/A	See Table 26	See Table 26
NAAQS	NAAQS	NAAQS	NAAQS
_		See Table 26 N/A	See Table 26 N/A See Table 26

Site type(s)	Population Exposure	Population Exposure	Highest Concentration	Highest Concentration
Monitor (type)	SLAMS	CA Air Toxics	SLAMS/PAMS	SLAMS/PAMS
Instrument	Andersen RAAS	Xontech 924	RM Env. 910/Xon	Xon Tech 910
manufacturer and	PM2.5	Aunteen 924	Tech 912	Aon rech 910
model	1 1/12.3		100H 912	
Method code	780, 120	N/A	See Table 26	See Table 26
FRM/FEM/ARM/	FRM	Other	Other	Other
other	TRIVI	Other	Other	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	ARB Toxics	SCAQMD	SCAQMD
(i.e.weigh lab, toxics	Berigins	THE TOMES	Seriquis	Seriquis
lab, other)				
Reporting Agency	SCAQMD	ARB	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Urban	Urban
micro, neighborhood)				
Monitoring start date	01/04/1999	01/1989	06/01/1995	06/01/1995
(MM/DD/YYYY)				
Current sampling	Daily	1:12	1:6 / 1:3	1:6 / 1:3
frequency (e.g.1:3,				
continuous)				
Calculated sampling	1:3	No CFR mandated	No CFR mandated	No CFR mandated
frequency		sampling schedule.	sampling schedule.	sampling schedule.
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	07/01-09/30	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	5.5	5.6	5.5	5.5
Distance from	2.0	2.0	2.0	2.0
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)	27/1	27/1	127/	224
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	26	26	26	26
incinerator flue				
(meters)	NT/A	NT/A	4	NT/A
Distance between	N/A	N/A	4	N/A
collocated monitors				
(meters) Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	N/A	N/A	Stainless steel	Stainless steel
reactive gases	11/17	1 N/ / TA	Stanness steel	Stanness steel
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	2.5	2.4
reactive gases	11/11	11/11	2.3	2.7
(seconds)				
(becomes)	1	1	I	

Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	Yes	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	Monthly	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	Semi Annually	Semi Annually
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	1/29/15	1/29/15
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	04/17/2015, 11/06/2015	N/A	N/A	N/A

Pollutant, POC	VOCs, N/A		
Parameter code	N/A		
Basic monitoring	NAAQS		
objective(s)			
Site type(s)	Population Exposure		
Monitor (type)	CA Air Toxics		
Instrument	RM Env. 910PC		
manufacturer and			
model			
Method code	N/A		
FRM/FEM/ARM/	Other		
other			
Collecting Agency	SCAQMD		
Analytical Lab	ARB Toxics		
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	ARB		
Spatial scale (e.g.	Neighborhood	 	
micro, neighborhood)			

36 11 11 11	01/1000		<u> </u>
Monitoring start date (MM/DD/YYYY)	01/1989		
Current sampling	1:12		
frequency (e.g.1:3,			
continuous)			
Calculated sampling	No CFR mandated		
frequency	sampling schedule.		
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31		
(MM/DD-MM/DD)			
Probe height (meters)	5.5		
Distance from	1.55		
supporting structure			
(meters)			
Distance from	N/A		
obstructions on roof			
(meters)			
Distance from	NA		
obstructions not on			
roof (meters)			
Distance from trees	23		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow	360°	 	
(degrees)			
Probe material for	Teflon		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18			
months? (Y/N)	NT/A		
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
(Y/N)	NI/A		
Frequency of flow	N/A		
rate verification for			
manual PM samplers	NI/A		
Frequency of flow rate verification for	N/A		
automated PM			
analyzers Frequency of one-	N/A		
point QC check for	IN/A		
gaseous instruments			
gaseous mstruments			

Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	N/A		
flow rate audits for			
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

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.



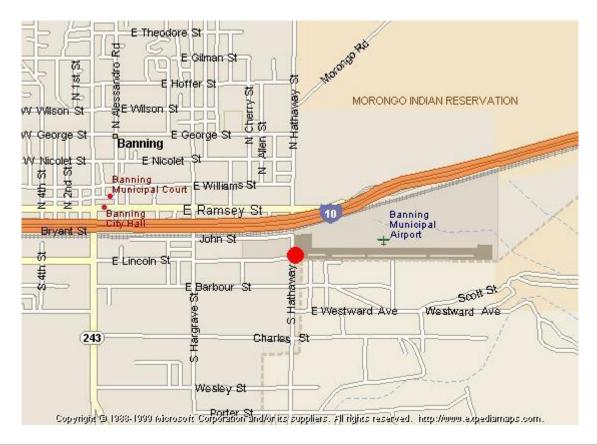
Looking at the probe from the South.



Looking at the probe from the West.

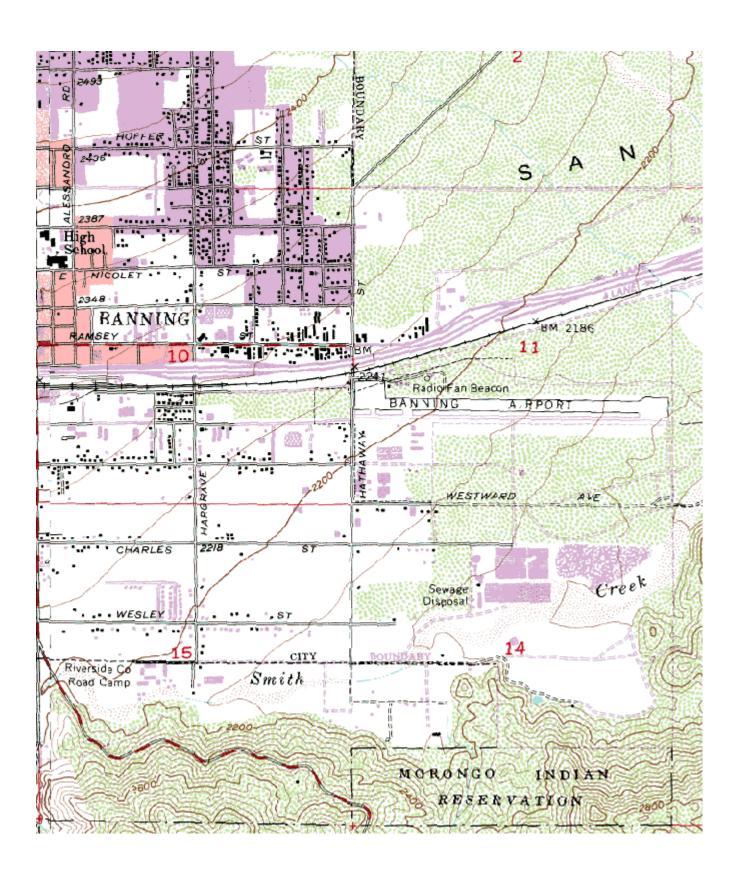
South Coast AQMD Site Survey Report for Banning-Airport

Last updated: May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650012	33164	04/1997	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"N	116° 51' 30"W	671



Local site name		Banning-Airport						
AQS ID			060650012					
GPS coordinates (decimal degrees)		Latitude: 33° 55' 14" Longitude: 116° 51' 30"						
Street Address		200 S Hathaway St, Banning, CA 92220						
County		Riverside						
Distance to roadways (meters)		80; 366						
Traffic count (AADT, y			2012; I-10/Hargrave, 11	6 000 2011				
Groundcover	(cur)	Gravel	2012, 1 10/114181470, 11	0,000, 2011				
(e.g. asphalt, dirt, sand)		Graver	Glavei					
Representative statistica		40140-Riverside-San Bernardino-Ontario, CA MSA						
(i.e. MSA, CBSA, other		.01.016		O				
Pollutant, POC	Nitrogen Die	oxide 1	e, 1 Ozone, 1 PM10, 1 Continuous PM2.5, 3					
Parameter code	42602	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	44201	See Table 26	88502			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)	1111125		111100	111145	141145			
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS	L	SLAMS	SLAMS	SLAMS			
Instrument	Thermo 42i		Thermo 49i	Sierra Andersen 1200	Met One BAM 1020			
manufacturer and	111011110 121			SSI	2.200 3.10 271171 1020			
model								
Method code	074		047	063, 102	731			
FRM/FEM/ARM/	FRM		FEM	FRM	Non-FEM			
other	1 Kivi		12.12	114.1	11011 1 2111			
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	SCAQMD	N/A			
(i.e.weigh lab, toxics			1,712	50172112	1,112			
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood			
micro, neighborhood)								
Monitoring start date	04/01/1997		04/01/1997	04/01/1997	02/10/2006			
(MM/DD/YYYY)								
Current sampling	1:1		1:1	1:6	1:1			
frequency (e.g.1:3,								
continuous)								
Calculated sampling	N/A		N/A	1:6	N/A			
frequency								
(e.g. 1:3/1:1)								
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)								
Probe height (meters)	4.05		4.05	3.5	4.75			
Distance from	2		2	2	2			
supporting structure								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions not on								
roof (meters)	1							
Distance from trees	N/A		N/A	N/A	N/A			
(meters)								

Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A
Residence time for reactive gases (seconds)	8.3	6.8	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/18/2014	09/18/2014	N/A	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	05/14/2015, 10/23/2015	05/14/2015, 10/23/2015

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.



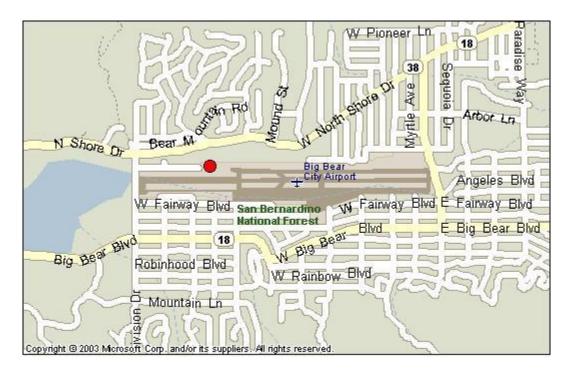
Looking at the probe from the South.



Looking at the probe from the West.

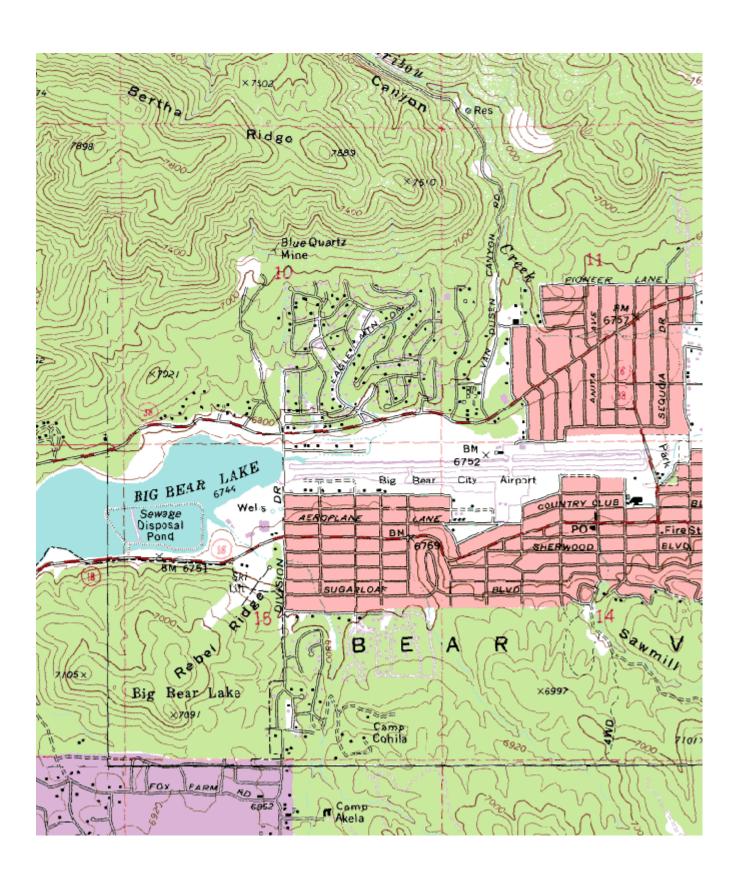
South Coast AQMD Site Survey Report for Big Bear

Last updated May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060718001	36001	02/1999	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"N	116° 51' 41"W	2059



Local site name		Big Bear					
AQS ID			060718001				
GPS coordinates (decin	GPS coordinates (decimal degrees)		34° 15' 52" Longitude:	116° 51' 41"			
Street Address		501 W. V	alley Blvd, Big Bear, Ca	A 92314			
County		San Bern	ardino				
Distance to roadways (r	meters)	114					
Traffic count (AADT, y		2,876 / 20	012				
Groundcover	-	Grassland	i				
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	40140-Ri	verside-San Bernardino-	Ontario, CA MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	24 Hour PM	2.5, 1					
Parameter code	See Table 26	j					
Basic monitoring	NAAQS						
objective(s)							
Site type(s)	Population E	Exposure					
Monitor (type)	SLAMS						
Instrument	Andersen RA	AAS					
manufacturer and	PM2.5						
model							
Method code	780, 120						
FRM/FEM/ARM/	FRM						
other							
Collecting Agency	SCAQMD						
Analytical Lab	SCAQMD						
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD						
Spatial scale (e.g.	Neighborhoo	od					
micro, neighborhood)							
Monitoring start date	02/08/1999						
(MM/DD/YYYY)							
Current sampling	1:6						
frequency (e.g.1:3,							
Colculated compling	1,6 Ammo	d by					
Calculated sampling	1:6 Approve regional adm						
frequency (e.g. 1:3/1:1)	at inception.	mmsuatof					
Sampling season	01/01-12/31						
(MM/DD-MM/DD)	01/01-12/31						
Probe height (meters)	2.9						
Distance from	1						
supporting structure	_						
(meters)							
Distance from	N/A						
obstructions on roof							
(meters)							
Distance from	N/A						
obstructions not on							
roof (meters)							

D:		T	T	1
Distance from trees	36			
(meters)				
Distance to furnace or	N/A			
incinerator flue				
(meters)				
Distance between	N/A			
collocated monitors				
(meters)				
Unrestricted airflow	360°			
(degrees)				
Probe material for	N/A			
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A			
reactive gases				
(seconds)				
Will there be changes	No			
within the next 18				
months? (Y/N)				
Is it suitable for	Yes			
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	Monthly			
rate verification for				
manual PM samplers				
Frequency of flow	N/A			
rate verification for				
automated PM				
analyzers				
Frequency of one-	N/A			
point QC check for				
gaseous instruments				
Last Annual	N/A			
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	05/21/2014,			
flow rate audits for	11/06/2014			
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Big Bear Site Photos







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.



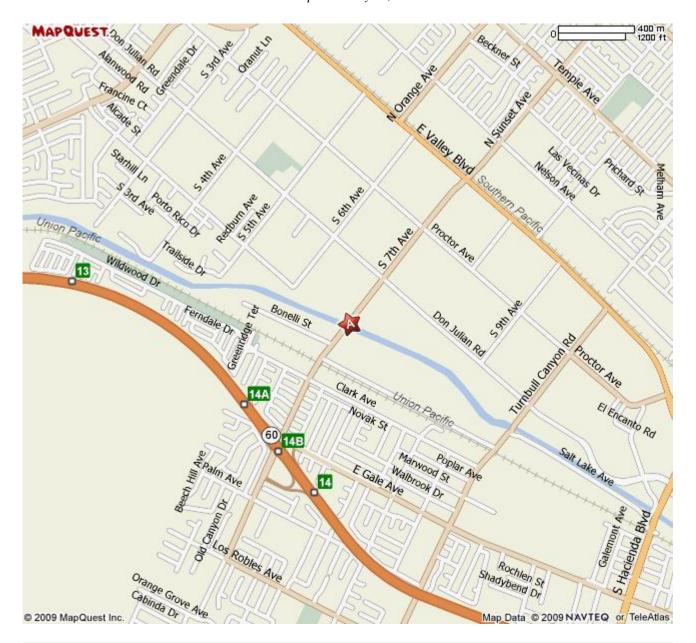
Looking at the probe from the South.



Looking at the probe from the West.

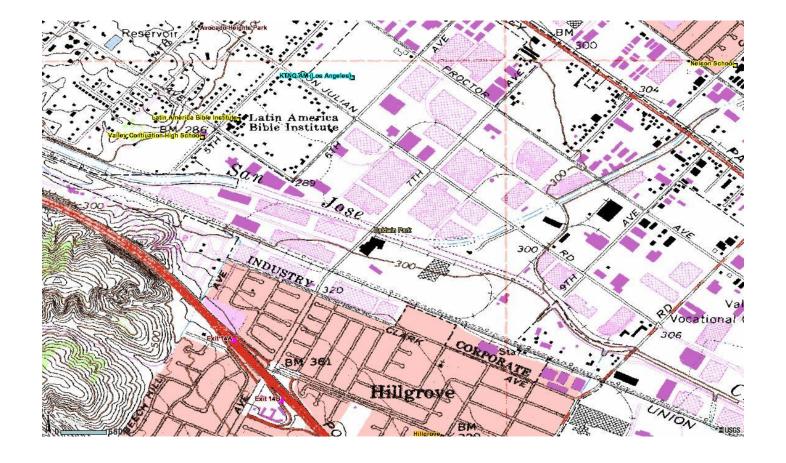
Quality Assurance Site Survey Report for Closet World (Quemetco)

Last updated May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371404	70043	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"N	117° 58' 54"W	89 m



Local site name		Closet World (Quemetco)				
AQS ID		06037140)4			
GPS coordinates (decin	GPS coordinates (decimal degrees)		34° 01' 34" Longitude: 117° 58'	54"		
Street Address		720 S 7th	Ave. City of Industry, CA 91746			
County		Los Ange				
Distance to roadways (r	meters)	30				
Traffic count (AADT, y	/ear)	20,000 / 2	2012			
Groundcover	,	Asphalt				
(e.g. asphalt, dirt, sand)		1				
Representative statistica		31080-Lo	s Angeles-Long Beach-Anaheim	MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Lead, 1					
Parameter code	14129					
Basic monitoring	NAAQS					
objective(s)						
Site type(s)	Source Orien	nted				
Monitor (type)	SLAMS					
Instrument	GMW 1200	TSP				
manufacturer and						
model						
Method code	110					
FRM/FEM/ARM/	FRM					
other						
Collecting Agency	SCAQMD					
Analytical Lab	SCAQMD					
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD					
Spatial scale (e.g.	Micro					
micro, neighborhood)						
Monitoring start date	10/03/2008					
(MM/DD/YYYY)						
Current sampling	1:6					
frequency (e.g.1:3,						
continuous)						
Calculated sampling	1:6					
frequency						
(e.g. 1:3/1:1)	04/04/12/2					
Sampling season	01/01-12/31					
(MM/DD-MM/DD)	2.6					
Probe height (meters)	2.6					
Distance from	1					
supporting structure						
(meters)	NT/A					
Distance from	N/A					
obstructions on roof						
(meters) Distance from	N/A					
obstructions not on	1N/A					
roof (meters)						
1001 (Illeters)	<u> </u>					

	T		T
Distance from trees	N/A		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow	360°		
(degrees)			
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases	- "		
(seconds)			
Will there be changes	No		
within the next 18	110		
months? (Y/N)			
Is it suitable for	N/A		
comparison against	14/74		
the annual PM2.5?			
(Y/N)			
Frequency of flow	Monthly		
rate verification for	Wilding		
manual PM samplers			
Frequency of flow	N/A		
rate verification for	IN/A		
automated PM			
analyzers	N/A		
Frequency of one-	IN/A		
point QC check for			
gaseous instruments	NT/A		
Last Annual Performance	N/A		
Evaluation for			
gaseous parameters (MM/DD/YYYY)			
Last two semi-annual	06/03/2015,		
flow rate audits for	11/19/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

Quemetco – Closet World Site Photos



Looking North from the probe



Looking East from the probe.



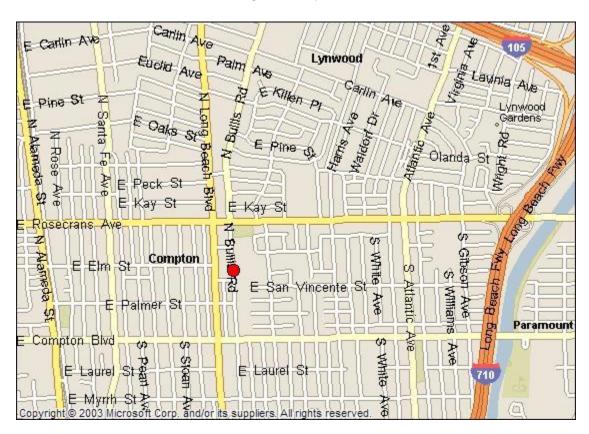
Looking South toward the probe.



Looking West from the probe

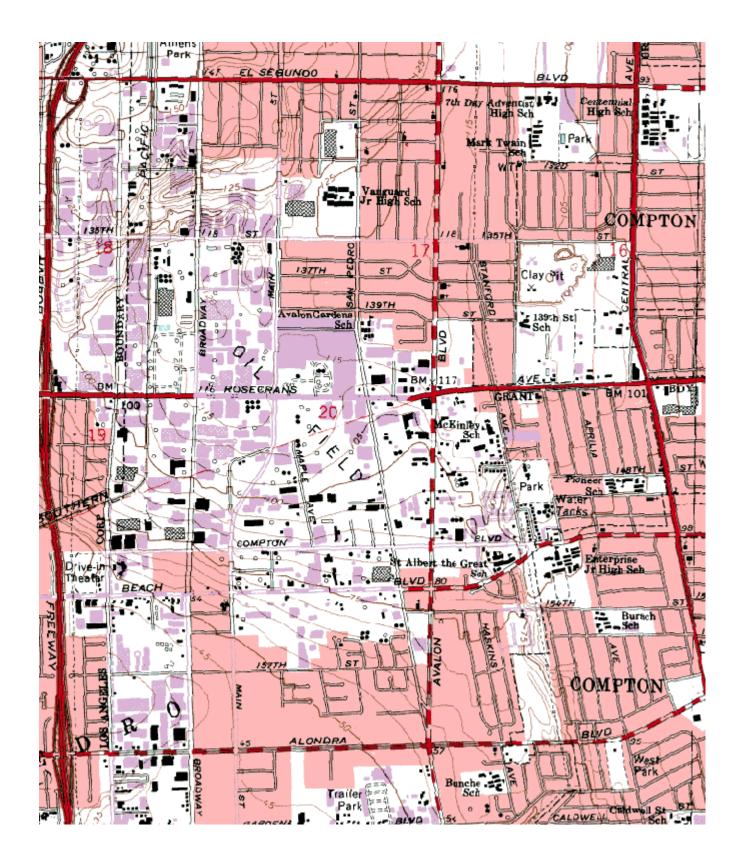
South Coast AQMD Site Survey Report for Compton

Last updated: May 10, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371302	70112	01/2004	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"N	118° 12' 18"W	22



Local site name		Compton	Compton					
		06037130						
			33° 54' 05" Longitude: 1	18° 12' 18"				
			ıllis Rd, Compton, CA 90					
County Los A								
Distance to roadways (1	meters)	13 – 17;						
Traffic count (AADT, y		1,000 / 20	012; 710/105, 225,000, 2	011				
Groundcover	,	Asphalt						
(e.g. asphalt, dirt, sand)		_						
Representative statistica	al area name	31080-Lo	os Angeles-Long Beach-A	Anaheim, MSA				
(i.e. MSA, CBSA, other	r)							
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Lead, 1			
Parameter code	42101		42602	44201	14129			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)								
Site type(s)	Highest		Population Exposure	Population Exposure	Population Exposure			
Monitor (type)	Concentration SLAMS)11	SLAMS	SLAMS	SLAMS/Pb			
Instrument	Horiba APM	[A 370	Thermo 42i	Thermo 49i	GMW 1200 TSP, A			
manufacturer and	110110a AF W	IA 370	1 11011110 421	1 11011110 431	Sampler			
model					Sampler			
Method code	158		074	047	110			
FRM/FEM/ARM/	FRM		FRM	FEM	FRM			
other								
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A	SCAQMD			
(i.e.weigh lab, toxics								
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Middle		Middle	Neighborhood	Neighborhood			
micro, neighborhood)								
Monitoring start date	01/2004		01/2004	01/2004	01/2004			
(MM/DD/YYYY)								
Current sampling	1:1		1:1	1:1	1:6			
frequency (e.g.1:3,								
continuous) Calculated sampling	N/A		N/A	N/A	1;6			
	IN/A		N/A	IN/A	1;0			
frequency (e.g. 1:3/1:1)								
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	01,01 12,01		01/01 1 <i>E</i> /01	VI/VI 12/31	V1/V1 12/J1			
Probe height (meters)	4.0		4.0	4.0	3.0			
Distance from	1.5		1.5	1.5	1.1			
supporting structure	1.0							
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions not on								
roof (meters)								

Distance from trees	16	16	16	13
(meters)				
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue			"	
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	Teflon	Teflon	Teflon	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	5.2	6.5	5.4	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	Monthly
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	N/A
point QC check for				
gaseous instruments	5 10 1 0 0 4 7	5 10 10 04 7	5 /0 / 0 0 4 7	27/4
Last Annual	6/9/2015	6/9/2015	6/9/2015	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)	N/A	N/A	N/A	05/22/2015
Last two semi-annual	IN/A	IN/A	IN/A	05/22/2015,
flow rate audits for PM monitors				11/7/2015
(MM/DD/YYYY,				
MM/DD/YYYY)]			

Pollutant, POC	24 Hour PM2.5, 1	Lead, 2	
Parameter code	See Table 26	14129	
Basic monitoring	NAAQS	NAAQS	
objective(s)			

Site type(s)	Population Exposure	Population Exposure	
Monitor (type)	SLAMS	SLAMS/Pb/QA	
intolitor (type)		Collocated	
Instrument	Andersen RAAS	GMW 1200 TSP, B	
manufacturer and	PM2.5	Sampler	
model		1	
Method code	780, 120	110	
FRM/FEM/ARM/	FRM	FRM	
other			
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	SCAQMD	SCAQMD	
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)	04/0004	0.5/201.5	
Monitoring start date	01/2004	05/2015	
(MM/DD/YYYY) Current sampling	1:3	1.6	
frequency (e.g.1:3,	1:3	1:6	
continuous)			
Calculated sampling	1:3	1;6	
frequency	1.3	1,0	
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)			
Probe height (meters)	2.5	3.0	
Distance from	1.0	1.1	
supporting structure			
(meters)			
Distance from	NA	N/A	
obstructions on roof			
(meters) Distance from	N/A	N/A	
obstructions not on	IN/A	IN/A	
roof (meters)			
Distance from trees	17	13	
(meters)			
Distance to furnace or	N/A	N/A	
incinerator flue			
(meters)			
Distance between	N/A	2.0	
collocated monitors			
(meters)	2600	2600	
Unrestricted airflow	360°	360°	
(degrees) Probe material for	N/A	N/A	
reactive gases	11/1	11/1	
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
Will there be changes	No	No	
within the next 18			

			-
months? (Y/N)			
Is it suitable for	Yes	N/A	
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	Monthly	Monthly	
rate verification for			
manual PM samplers			
Frequency of flow	N/A	N/A	
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A	N/A	
point QC check for			
gaseous instruments	27/1		
Last Annual	N/A	N/A	
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)	0.5/0.0/0.4.5	T 100 100 1 T	
Last two semi-annual	05/22/2015,	5/22/2015,	
flow rate audits for	11/7/2015	11/7/2015	
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

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.



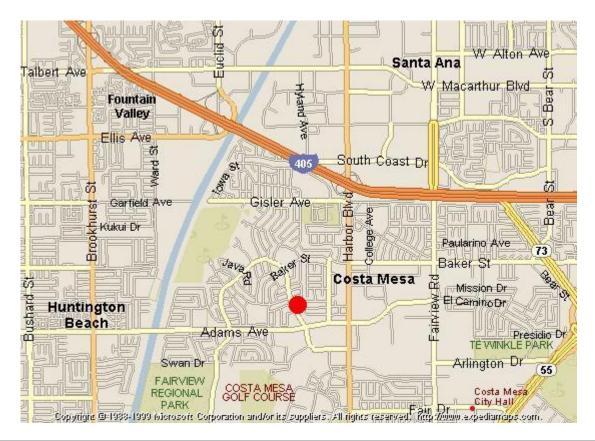
Looking at the probe from the South.



Looking at the probe from the West.

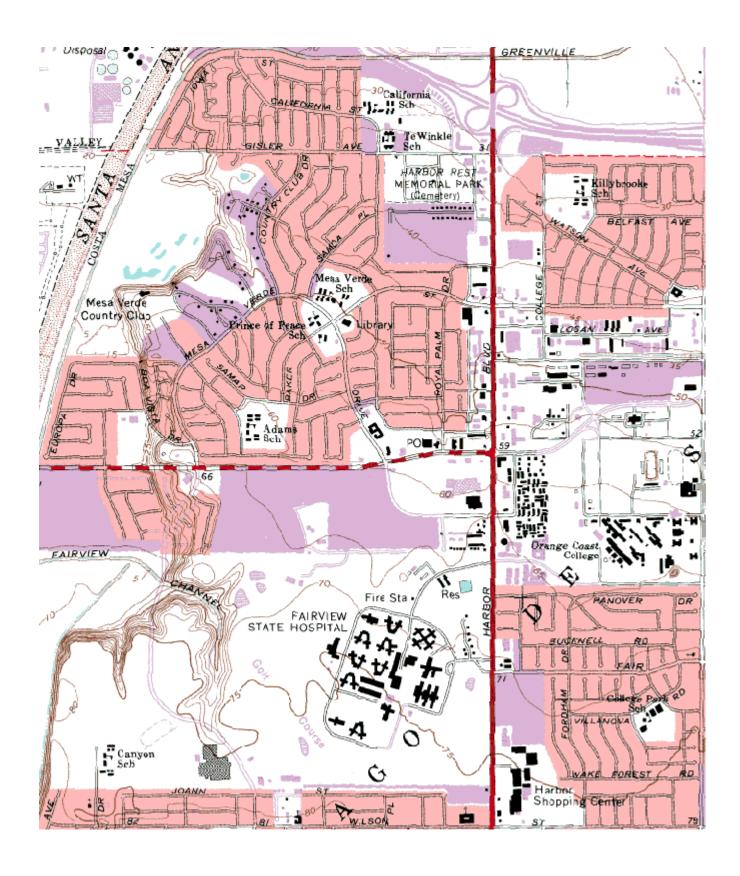
South Coast AQMD Site Survey Report for Costa Mesa-Mesa Verde Drive

Last updated: May 13, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060591003	30195	11/1989	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"N	117° 55' 33"W	17



Local site name		Costa Me	esa-Mesa Verde Drive					
AQS ID		0605910						
GPS coordinates (decin	nal degrees)	Latitude: 33° 40' 28" Longitude: 117° 55' 33"						
Street Address	· · · · · · · · · · · · · · · · · · ·		2850 Mesa Verde Dr, East #116, Costa Mesa, CA 92626					
County		Orange	, , ,	,				
Distance to roadways (1	meters)	34						
Traffic count (AADT, y		< 2,000 /	2012					
Groundcover	, , ,	Asphalt						
(e.g. asphalt, dirt, sand)		· · ·						
Representative statistics		31080-L	os Angeles-Long Beach-	Anaheim, MSA				
(i.e. MSA, CBSA, other			2 2	,				
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Sulfur Dioxide, 1			
Parameter code	42101	,	42602	44201	42401			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)								
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	Thermo 42i	API/Teledyne 400E	Thermo 43i-TLE			
manufacturer and								
model								
Method code	106		074	087	560			
FRM/FEM/ARM/	FRM		FRM	FEM	FEM			
other								
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A	N/A			
(i.e.weigh lab, toxics								
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood			
micro, neighborhood)								
Monitoring start date	11/01/1989		11/01/1989	11/01/1989	11/01/1989			
(MM/DD/YYYY)								
Current sampling	1:1		1:1	1:1	1:1			
frequency (e.g.1:3,								
continuous)	27/4		37/4	NY/4	NY/ 1			
Calculated sampling	N/A		N/A	N/A	N/A			
frequency								
(e.g. 1:3/1:1)	01/01 12/21		01/01 12/21	01/01 12/21	01/01 12/21			
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
Probe height (meters)	8.0		8.0	8.0	8.0			
Distance from	2		2	8.0	2			
supporting structure			<u></u>	<u>_</u>	<u> </u>			
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof	IN/A		- " - "	- 1/ 4 4	- 1/22			
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions not on	11/71			- "	= " = =			
roof (meters)								
Distance from trees	18		18	18	18			
(meters)								
` '	1		1	1	1			

Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon
Residence time for reactive gases (seconds)	7.3	8.4	7.7	9.4
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	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
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	Nightly
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	05/20/2015	05/20/2015	05/20/2015	05/20/2015
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A

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.



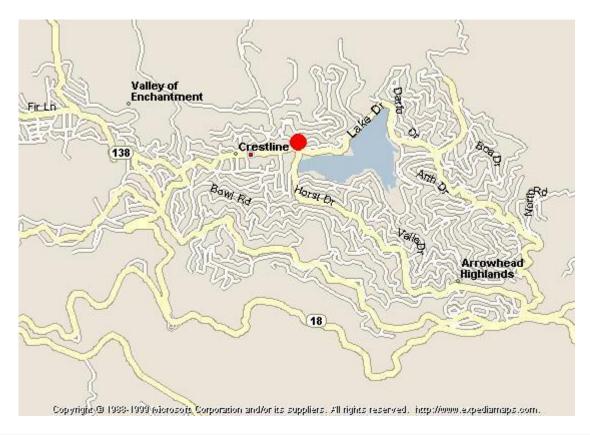
Looking at the probe from the South.



Looking at the probe from the West.

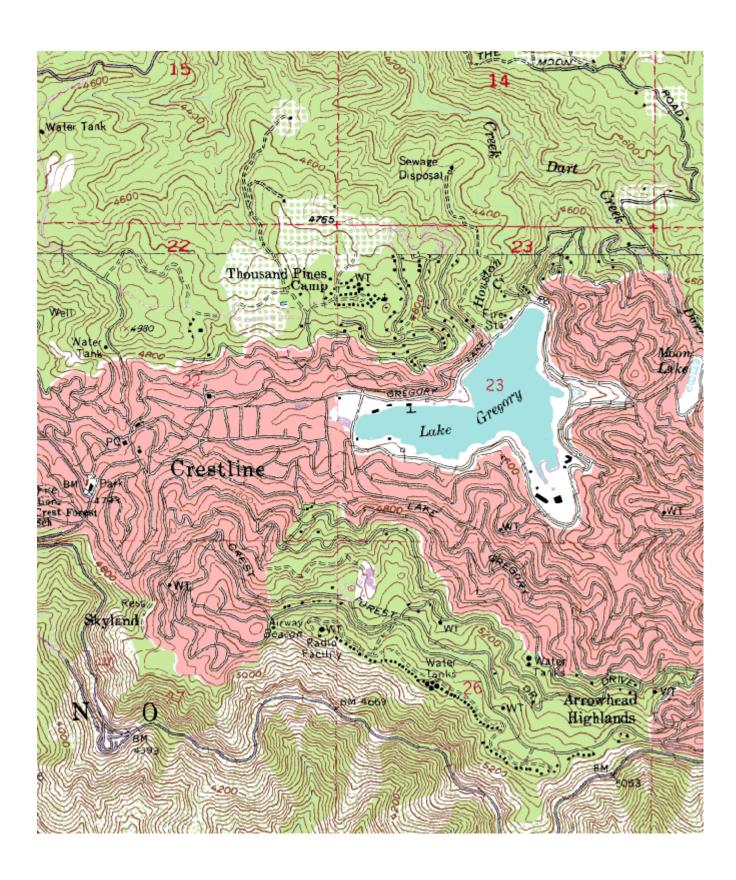
South Coast AQMD Site Survey Report for Crestline (Lake Gregory)

Last updated: 5/20/2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060710005	36181	10/1973	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"N	117° 16' 20"W	1387



Local site name		Crestline	(Lake Gregory)				
AQS ID		06071000	· • • • • • • • • • • • • • • • • • • •				
GPS coordinates (decimal degrees)		Latitude: 34° 14' 35" Longitude: 117° 16' 20"					
Street Address			24171 Lake Dr, Crestline, CA 92325				
County		San Berna					
Distance to roadways (r	neters)	55					
Traffic count (AADT, y		< 8,000 /	2012				
Groundcover		Grass/We					
(e.g. asphalt, dirt, sand)							
Representative statistica		40140-Ri	verside-San Bernardino-G	Ontario, CA MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Ozone, 1		PM10, 1	Continuous PM2.5, 3			
Parameter code	44201		See Table 26	88502			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Highest		Population Exposure	Population Exposure			
	Concentratio	n					
Monitor (type)	SLAMS		SLAMS	SLAMS			
Instrument	Thermo 49i		Sierra Andersen 1200	Met One BAM 1020			
manufacturer and			SSI				
model							
Method code	047		063, 102	731			
FRM/FEM/ARM/	FEM		FRM	Non-FEM			
other	991015		001010	GG+0) (D			
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		SCAQMD	N/A			
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood			
micro, neighborhood)	10/01/1072		01/1005	07/04/2000			
Monitoring start date (MM/DD/YYYY)	10/01/1973		01/1985	07/24/2009			
Current sampling	1:1		1:6	1:1			
frequency (e.g.1:3,	1.1		1.0	1.1			
continuous)							
Calculated sampling	N/A		1:6	N/A			
frequency	IV/A		1.0	IV/A			
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	01/01-12/31						
Probe height (meters)	3.0		4.0	4.5			
Distance from	1.0		1.9	2.0			
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions not on							
roof (meters)							

Distance from trees	10	10	10	1
	10	10	10	
(meters)	NT/A	NT/A	NY/A	
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	225°	225°	225°	
(degrees)				
Probe material for	Teflon	N/A	N/A	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	11.3	N/A	N/A	
reactive gases	11.5	1771	1771	
(seconds)				
Will there be changes	No	No	No	
within the next 18	110	110	140	
months? (Y/N)				
	N/A	NT/A	N/A	
Is it suitable for	N/A	N/A	N/A	
comparison against				
the annual PM2.5?				
(Y/N)	27/		27/1	
Frequency of flow	N/A	Monthly	N/A	
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	Monthly	
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	N/A	N/A	
point QC check for				
gaseous instruments				
Last Annual	06/17/2015	N/A	N/A	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	04/16/2015,	06/17/2015	
flow rate audits for	,,	10/31/2015	12/06/2015	
PM monitors		10/31/2013	12,00,2010	
(MM/DD/YYYY,				
MM/DD/YYYY)				
1411/1/10/11111)	1			

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

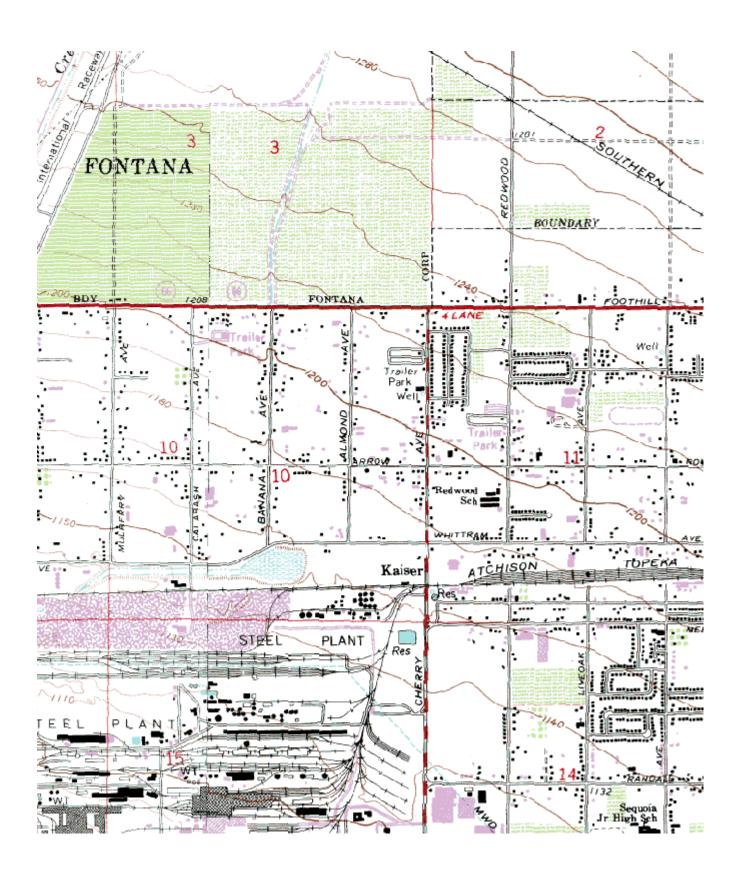
South Coast AQMD Site Survey Report for Fontana-Arrow Highway

Last updated: May 15, 2016



	AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
ĺ	060712002	36197	08/1981	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"N	117° 29' 31"W	363



Local site name		Fontana-	Arrow Highway					
AQS ID		0607120	<u> </u>					
GPS coordinates (decin	nal degrees)		Latitude: 34° 06' 0", Longitude: 117° 29' 31"					
Street Address			rrow Highway, Fontana,					
County		San Berr						
Distance to roadways (r	neters)	86 – 92						
Traffic count (AADT, y		12,500 /	2012					
Groundcover	, cur)	Gravel	2012					
(e.g. asphalt, dirt, sand)		Siavei						
Representative statistica		40140-R	40140-Riverside-San Bernardino-Ontario, CA MSA					
(i.e. MSA, CBSA, other		.01.01	TYOISIAO SAII BUILLAINI	011111111				
Pollutant, POC	Carbon Mon	oxide 1	Nitrogen Dioxide, 1	Ozone, 1	Sulfur Dioxide, 1			
Parameter code	42101	10/1140, 1	42602	44201	42401			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)	111105		111145	111125	111145			
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS	F	SLAMS	SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	API Teledyne 200E	API/Teledyne 400E	Thermo 43i			
manufacturer and				3223,22				
model								
Method code	106		099	087	560			
FRM/FEM/ARM/	FRM		FRM	FEM	FEM			
other								
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A	N/A			
(i.e.weigh lab, toxics								
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Urban	Urban	Neighborhood			
micro, neighborhood)								
Monitoring start date	08/1981		08/1981	08/1981	08/1981			
(MM/DD/YYYY)								
Current sampling	1:1		1:1	1:1	1:1			
frequency (e.g.1:3,								
continuous)								
Calculated sampling	N/A		N/A	N/A	N/A			
frequency								
(e.g. 1:3/1:1)	04/04/57		04/04/42/24	04/04 (2/2/	04/04/42/24			
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	4.02		4.02	4.02	4.02			
Probe height (meters)	4.02		4.02	4.02	4.02			
Distance from	1.52		1.52	1.52	1.52			
supporting structure								
(meters)			NT/A	NI/A	NI/A			
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof								
(meters)	NT/A		NT/A	NI/A	NT/A			
Distance from obstructions not on	N/A		N/A	N/A	N/A			
roof (meters)								
Distance from trees	N/A		N/A	N/A	N/A			
(meters)	1N/ FA		1 N /A	IN/A	IN/A			
(meters)	<u> </u>		1					

Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon
Residence time for reactive gases (seconds)	5.1	6.0	5.5	6.5
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	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
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	Nightly
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	3/10/2015	3/10/2015	3/10/2015	3/10/2015
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A

Pollutant, POC	PM10, 2	PM2.5, 11	24 Hour PM2.5, 1	
Parameter code	See Table 26	See Table 26	See Table 26	
Basic monitoring	NAAQS	NAAQS	NAAQS	
objective(s)				
Site type(s)	Highest	Population Exposure	Population Exposure	
	Concentration			
Monitor (type)	SLAMS	SLAMS	SLAMS	
Instrument	GMW 1200 SSI/	Met One SASS	Andersen RAAS	
manufacturer and	Hi-Q		PM2.5	
model				
Method code	063, 102	See Table 26	780, 120	
FRM/FEM/ARM/	FRM	Other	FRM	

other			
Collecting Agency	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics	561141115	56112112	56114.112
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)	rteignoomood	reignoomood	reighborhood
Monitoring start date	08/1981	02/20/2004	01/1985
(MM/DD/YYYY)	00/1/01	02/20/2001	01/1905
Current sampling	1:6	1:6	1:3
frequency (e.g.1:3,			
continuous)			
Calculated sampling	1:6	No CFR mandated	1:3
frequency		sampling schedule.	
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31
(MM/DD-MM/DD)			
Probe height (meters)	2.4	2.9	2.9
Distance from	1.5	1.9	1.9
supporting structure			
(meters)			
Distance from	N/A	N/A	N/A
obstructions on roof			
(meters)			
Distance from	N/A	N/A	N/A
obstructions not on			
roof (meters)	37/4	NT/A	NY
Distance from trees	N/A	N/A	N/A
(meters)	NT/A	NT/A	NI/A
Distance to furnace or incinerator flue	N/A	N/A	N/A
(meters)			
Distance between	N/A	N/A	N/A
collocated monitors	IV/A	14/74	IV/A
(meters)			
Unrestricted airflow	360°	360°	360°
(degrees)			
Probe material for	N/A	N/A	N/A
reactive gases		"	
(e.g. Pyrex, stainless			
steel, Teflon)		<u> </u>	
Residence time for	N/A	N/A	N/A
reactive gases			
(seconds)			
Will there be changes	No	No	No
within the next 18			
months? (Y/N)	27/		
Is it suitable for	N/A	N/A	Yes
comparison against			
the annual PM2.5?			
(Y/N)	Monthly	Monthly	Monthly
Frequency of flow rate verification for	Monthly	Monthly	Monthly
Tate verification for			

manual PM samplers				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	N/A	N/A	N/A	
point QC check for				
gaseous instruments				
Last Annual	N/A	N/A	N/A	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	04/16/2015,	04/16/2015,	04/16/2015,	
flow rate audits for	11/06/2015	11/06/2015	11/06/2015	
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Fontana-Arrow Highway Site Photos



Looking North from the probe.



Looking East from the probe.

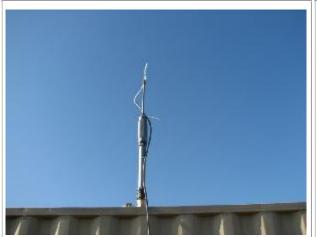


Looking South from the probe.



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.

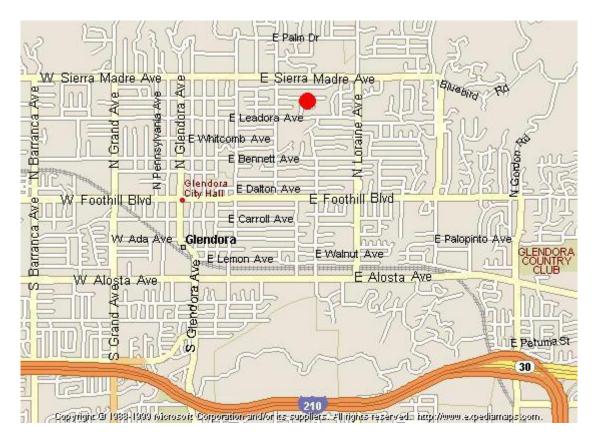


Looking at the probe from the South.



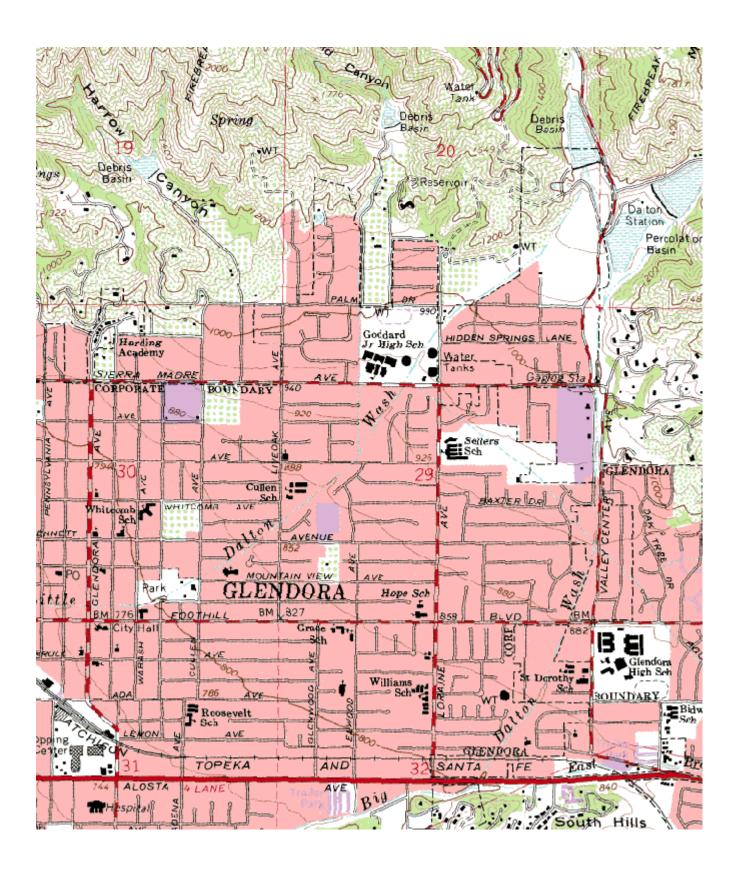
Looking at the probe from the West.

South Coast AQMD Site Survey Report for Glendora-Laurel



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060370016	70591	08/1980	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"N	117° 51' 01"W	278



Local site name			Glendora-Laurel				
AQS ID		0603700	060370016				
GPS coordinates (decin	nal degrees)	Latitude:	Latitude: 34° 08' 39" Longitude: 117° 51' 01"				
Street Address			el Avenue, Glendora, CA				
County	County Los						
Distance to roadways (1	meters)	121					
Traffic count (AADT, y	ic count (AADT, year) 1,834 / 2012						
Groundcover		Dirt/wee	ds/gravel				
(e.g. asphalt, dirt, sand)	ı						
Representative statistica		31080-Los Angeles-Long Beach-Anaheim MSA					
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 2	Nitrogen Dioxide, 1	Ozone, 1	Continuous PM10, 3		
Parameter code	42101		42602	44201	81102		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Highest	Population Exposure		
				Concentration			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	Thermo 49i	Met One BAM 1020		
manufacturer and							
model							
Method code	158		074	087	122		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)	00/4000		004000	004000	22/21/22/2		
Monitoring start date	08/1980		08/1980	08/1980	03/31/2010		
(MM/DD/YYYY)	1 1		1.1	1 1	1.1		
Current sampling	1:1		1:1	1:1	1:1		
frequency (e.g.1:3,							
continuous) Calculated sampling	N/A		N/A	N/A	N/A		
frequency	IN/A		IN/A	IN/A	IV/A		
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)	01/01 12/31		01/01 12/31	01/01 12/31	01/01 12/31		
Probe height (meters)	4.2		4.2	4.2	4.95		
Distance from	1.1		1.1	1.1	1.85		
supporting structure			.=				
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	<u> </u>						
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Distance from trees	16	16	16	16
(meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	IN/A	IN/A	IN/A
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors	IV/A	IV/A	11/1	IV/A
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	Teflon	Teflon	Teflon	N/A
reactive gases	Tenon	renon	Tenon	17/11
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	7.0	7.8	7.6	N/A
reactive gases		1.10		
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	Monthly
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	N/A
point QC check for				
gaseous instruments				
Last Annual	09/21/2015	09/21/2015	09/21/2015	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)	N7/4	27/4	37/4	0.5/07/0015
Last two semi-annual	N/A	N/A	N/A	06/27/2015,
flow rate audits for				12/05/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Continuous PM2.5, 3		
Parameter code	88502		
Basic monitoring	NAAQS		
objective(s)			
Site type(s)	Population Exposure		

Maniferation	CLAMC	1	
Monitor (type)	SLAMS PAN 1020		
Instrument	Met One BAM 1020		
manufacturer and			
model			
Method code	731		
FRM/FEM/ARM/	Non-FEM		
other			
Collecting Agency	SCAQMD		
Analytical Lab	N/A		
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD		
Spatial scale (e.g.	Neighborhood		
micro, neighborhood)			
Monitoring start date	01/05/2006		
(MM/DD/YYYY)			
Current sampling	1:1		
frequency (e.g.1:3,			
continuous)			
Calculated sampling	N/A		
frequency			
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31		
(MM/DD-MM/DD)			
Probe height (meters)	4.9		
Distance from	1.8		
supporting structure			
(meters)			
Distance from	N/A		
obstructions on roof			
(meters)			
Distance from	N/A		
obstructions not on			
roof (meters)			
Distance from trees	N/A		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow	360°		
(degrees)			
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)	27/		
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18			
months? (Y/N)			

Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	N/A		
rate verification for			
manual PM samplers			
Frequency of flow	Monthly		
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A		
point QC check for			
gaseous instruments			
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	06/27/2015,		
flow rate audits for	12/05/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)		 	

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.

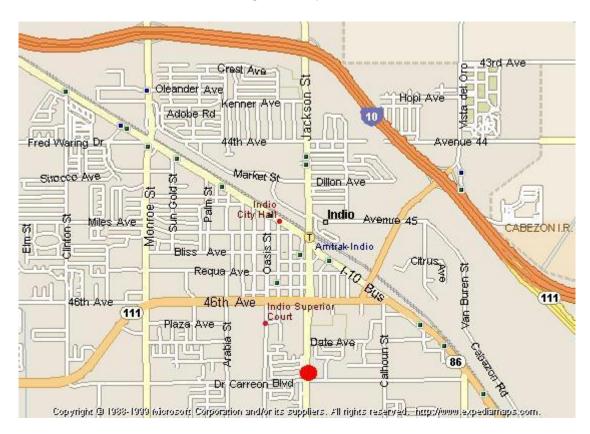


Looking at the probe from the South.



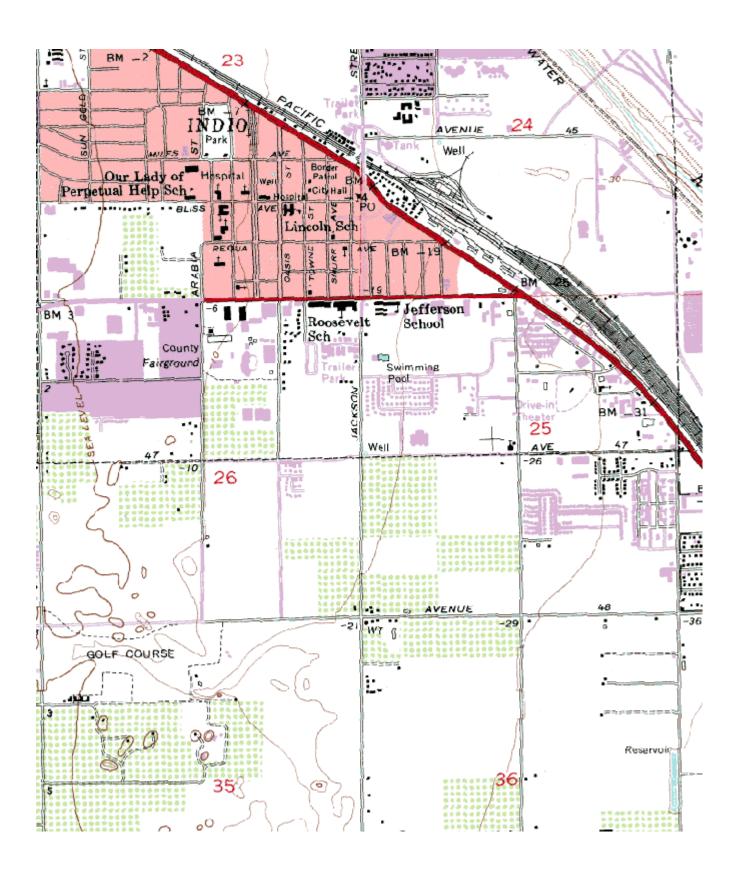
Looking at the probe from the West.

South Coast AQMD Site Survey Report for Indio-Jackson Street



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060652002	33157	01/1983	South Coast AQMD (061)

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



Local site name	Indio-Jac		io-Jackson Street				
AQS ID			0652002				
GPS coordinates (decim	nal degrees)		atitude: 33° 42' 30" Longitude: 116° 12' 55"				
Street Address	iai aegiees)		ckson Street, Indio, CA 9				
County	Riverside			2201			
Distance to roadways (r	neters)	88	,				
Traffic count (AADT, y							
Groundcover	car)	Asphalt/dirt					
(e.g. asphalt, dirt, sand)		Aspirative	rispitule dift				
Representative statistica	al area name	40140-R	iverside-San Bernardino-	Ontario CA MSA			
(i.e. MSA, CBSA, other		+01+0-IC	iverside-San Demardino-v	Olitario, CA WISA			
Pollutant, POC	Ozone, 1		PM10, 2	PM10, 4	PM10, 6		
Parameter code	44201		See Table 26	See Table 26	See Table 26		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)	MAAQS		MANQS	TAAQS	ITAAQS		
Site type(s)	Population F	vnosure	Highest	Highest	Highest		
Site type(s)	1 opulation 1	Aposure	Concentration	Concentration	Concentration		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS/QA		
Womtor (type)	SLAWS		SLAIVIS	SLAMO	Collocated		
Instrument	API/Teledyr	e 400E	Sierra Andersen 1200	Sierra Andersen 1200	Sierra Andersen 1200		
manufacturer and	7 H I/ Teledyl	ic loop	SSI, A Sampler	SSI, B Sampler	SSI, C Sampler		
model			SSI, 11 Sumpler	SSI, D Sumpler	bbi, e bumpier		
Method code	087		063, 102	063, 102	063, 102		
FRM/FEM/ARM/	FEM		FRM	FRM	FRM		
other	1 Livi		TAM	Titti	1101		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		SCAQMD	SCAQMD	SCAQMD		
(i.e.weigh lab, toxics	1 1/11		SCHQMB	Berrania	Berignib		
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhood		Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)				8	<i>B</i>		
Monitoring start date	01/1983		01/1983	03/2003	03/2003		
(MM/DD/YYYY)							
Current sampling	1:1		1:3	1:6	1:6		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		1:6	1:6	1:6		
frequency							
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)							
Probe height (meters)	9.0		3.5	3.5	3.5		
Distance from	2		2	2	2		
supporting structure							
(meters)	22/		1	1	224		
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	NT/A		NT/A	NT/A	NT/A		
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)				1			

Distance from trees (meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	2.0	2.0	2.0
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	N/A
Residence time for reactive gases (seconds)	12.1	N/A	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/12/2014	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/14/2015, 10/23/2015	05/14/2015, 10/23/2015	05/14/2015, 10/23/2015

Pollutant, POC	Continuous PM10, 3	24 Hour PM2.5, 1	
Parameter code	81102	See Table 26	
Basic monitoring	NAAQS	NAAQS	
objective(s)			

Site type(s)	Highest	Population Exposure		
	Concentration	r opulation Emposure		
Monitor (type)	SLAMS	SLAMS		
Instrument	Thermo Electron	Andersen RAAS		
manufacturer and	1400A TEOM	PM2.5, Sampler		
model		, 1		
Method code	079	780, 120		
FRM/FEM/ARM/	FEM	FRM		
other				
Collecting Agency	SCAQMD	SCAQMD		
Analytical Lab	N/A	SCAQMD		
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhood	Neighborhood		
micro, neighborhood)				
Monitoring start date	02/09/2009	02/04/1999		
(MM/DD/YYYY)				
Current sampling	1:1	1:3		
frequency (e.g.1:3,				
continuous)	27/1			
Calculated sampling	N/A	N/A		
frequency				
(e.g. 1:3/1:1)	01/01 10/21	01/01 10/01		
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31		
Probe height (meters)	7.0	4.8		
Distance from	1.8	1.6		
supporting structure	1.0	1.0		
(meters)				
Distance from	N/A	N/A		
obstructions on roof				
(meters)				
Distance from	N/A	N/A		
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A		
(meters)				
Distance to furnace or	N/A	N/A		
incinerator flue				
(meters)	1.0			
Distance between	4.0	2.0		
collocated monitors				
(meters)	2600	2600		
Unrestricted airflow	360°	360°		
(degrees) Probe material for	N/A	N/A		
reactive gases	IN/A	N/A		
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A		
reactive gases	11/11	11/11		
(seconds)				
(50001105)	l	1	I	I

Will there be changes within the next 18 months? (Y/N)	No	No		
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	Yes		
Frequency of flow rate verification for manual PM samplers	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers	Monthly	N/A		
Frequency of one- point QC check for gaseous instruments	N/A	N/A		
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	06/30/2015, 12/01/2015	05/14/2015, 10/23/2015		

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.

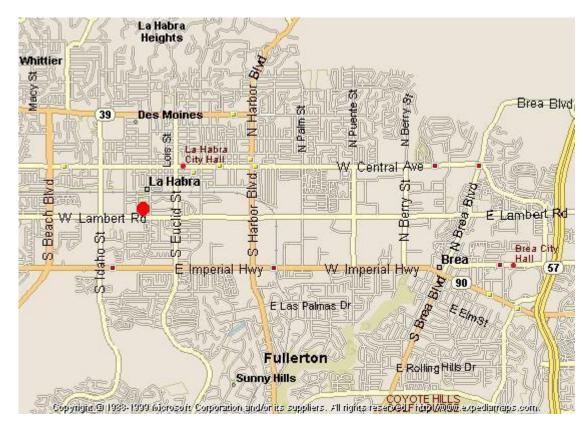


Looking at the probe from the South.



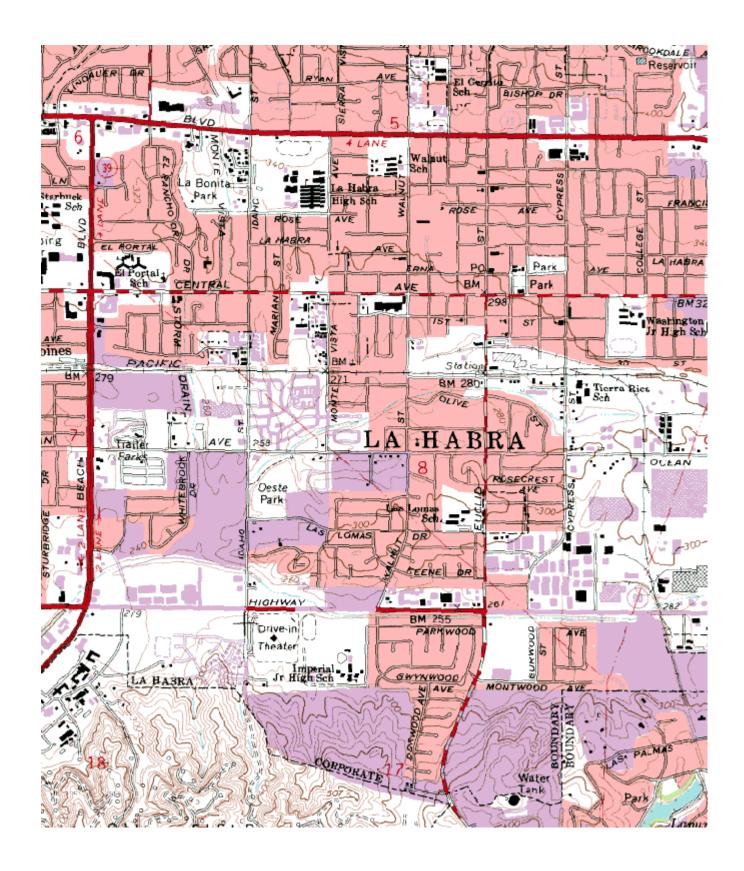
Looking at the probe from the West.

South Coast AQMD Site Survey Report for La Habra



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060595001	30177	08/1960	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"N	117° 57' 09"W	82



Local site name		La Habra					
AQS ID			060595001				
GPS coordinates (decimal degrees)			Latitude: 33° 55' 30" Longitude: 117° 57' 09"				
Street Address			621 W Lambert Rd, La Habra, CA 90631				
County		Orange	, , , , , , , , , , , , , , , , , , , ,				
Distance to roadways (r	neters)	40					
Traffic count (AADT, y		66,200 /	2012				
Groundcover	,	Asphalt					
(e.g. asphalt, dirt, sand)		1					
Representative statistica		31080-Los Angeles-Long Beach-Anaheim MSA					
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1			
Parameter code	42101		42602	44201			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	Thermo 42i	Thermo 49i			
manufacturer and							
model							
Method code	106		074	047			
FRM/FEM/ARM/	FRM		FRM	FEM			
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A			
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Urban	Neighborhood			
micro, neighborhood)							
Monitoring start date	08/1960		08/1960	08/1960			
(MM/DD/YYYY)							
Current sampling	1:1		1:1	1:1			
frequency (e.g.1:3,							
continuous) Calculated sampling	N/A		N/A	N/A			
1 0	IN/A		1 N / A	IN/A			
frequency (e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31			
Probe height (meters)	5.3		5.3	5.3			
Distance from	2.0		2.0	2.0			
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions not on							
roof (meters)							
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						

D:	1 5	1 ~		
Distance from trees	5	5	5	
(meters)				
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	Teflon	Teflon	Teflon	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	1.1	10.0	10.0	
reactive gases	1.1	10.0	10.0	
(seconds)				
Will there be changes	No	No	No	
within the next 18	110	140	110	
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
	N/A	N/A	IN/A	
comparison against				
the annual PM2.5?				
(Y/N)	27/4	37/4	77/4	
Frequency of flow	N/A	N/A	N/A	
rate verification for				
manual PM samplers	27/	327.	27/1	
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	
point QC check for				
gaseous instruments				
Last Annual	06/3/2015	06/3/2015	06/3/2015	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
/	I.	1		

La Habra Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

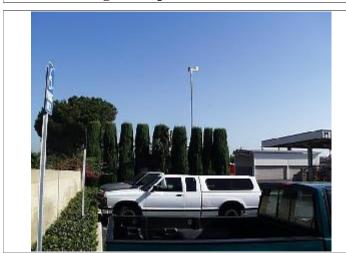
La Habra Site Photos (Cont.)



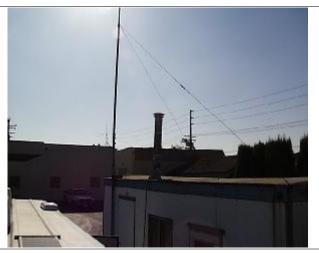
Looking at the probe from the North.



Looking at the probe from the East.

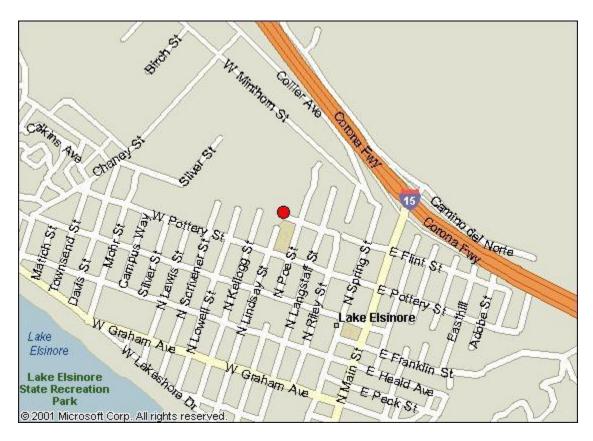


Looking at the probe from the South.



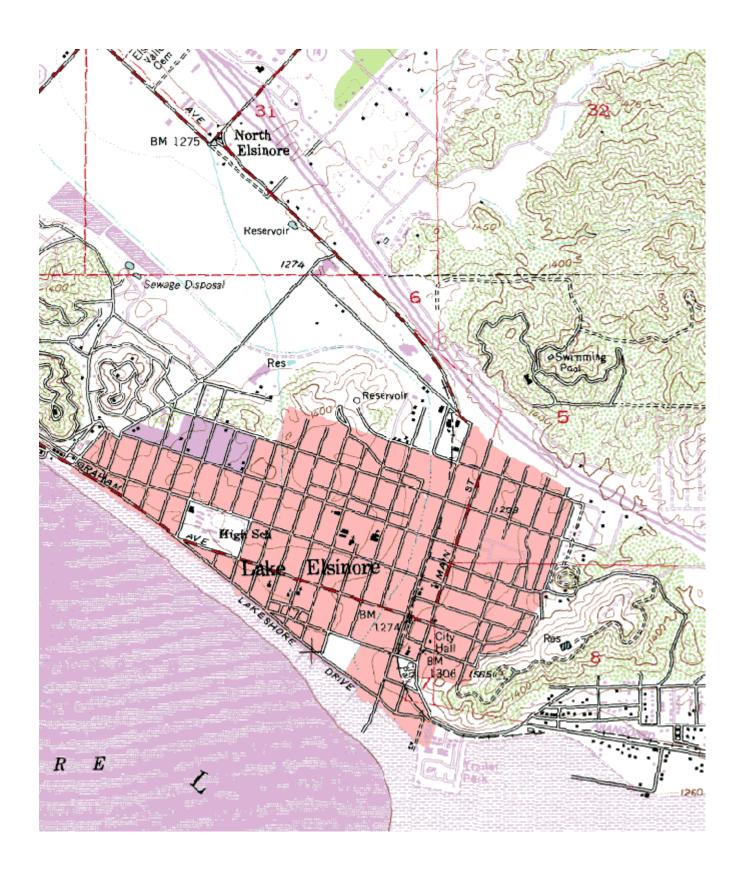
Looking at the probe from the West.

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



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060659001	33158	06/1987	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"N	117° 19' 51"W	410



Local site name		Lake Els	inore-W Flint Street			
AQS ID		060659001				
GPS coordinates (decin	nal degrees)	Latitude: 33° 40' 35" Longitude: 117° 19' 51"				
Street Address		506 W Flint St, Lake Elsinore, CA 92530				
		Riverside				
Distance to roadways (r	neters)	50				
Traffic count (AADT, y		< 2,000 /	2012			
Groundcover	,	Asphalt				
(e.g. asphalt, dirt, sand)		1				
Representative statistica						
(i.e. MSA, CBSA, other				,		
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Continuous PM10, 3	
Parameter code	42101		42602	44201	81102	
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS	
objective(s)						
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor (type)	SLAMS	•	SLAMS	SLAMS	SLAMS	
Instrument	Horiba APM	IA 360	Thermo 42i	Thermo 49i	R&P 1400A TEOM	
manufacturer and						
model						
Method code	106		074	047	079	
FRM/FEM/ARM/	FRM		FRM	FEM	FEM	
other						
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD	
Analytical Lab	N/A		N/A	N/A	N/A	
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood	
micro, neighborhood)						
Monitoring start date	06/1987		06/1987	06/1987	01/10/1994	
(MM/DD/YYYY)						
Current sampling	1:1		1:1	1:1	1:1	
frequency (e.g.1:3,						
continuous)						
Calculated sampling	N/A		N/A	N/A	N/A	
frequency						
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)			1		1.22	
Probe height (meters)	4.1		4.1	4.1	4.35	
Distance from	1.8		1.8	1.8	1.8	
supporting structure						
(meters)	1		27/4	27/4	27/4	
Distance from	N/A		N/A	N/A	N/A	
obstructions on roof						
(meters)	1		NT/A	NT/A	NT/A	
Distance from	N/A		N/A	N/A	N/A	
obstructions not on						
roof (meters)	17		17	17	10	
Distance from trees	1 /		1/	1/	10	
(meters)	l			1	1	

Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	5.1	5.7	5.1	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	06/19/2015	06/19/2015	06/19/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	06/19/2015, 12/09/2015

Pollutant, POC	Continuous PM2.5, 3		
Parameter code	88502		
Basic monitoring objective(s)	NAAQS		
Site type(s)	Population Exposure		
Monitor (type)	SLAMS		

Τ	M . O D 134 1000	1	T	
Instrument	Met One BAM 1020			
manufacturer and				
model				
Method code	731			
FRM/FEM/ARM/	Non-FEM			
other				
Collecting Agency	SCAQMD			
Analytical Lab	N/A			
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD			
Spatial scale (e.g.	Neighborhood			
micro, neighborhood)				
Monitoring start date	01/17/2006			
(MM/DD/YYYY)				
Current sampling	1:1			
frequency (e.g.1:3,				
continuous)				
Calculated sampling	N/A			
frequency				
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31			
(MM/DD-MM/DD)				
Probe height (meters)	2.6			
Distance from	N/A			
supporting structure				
(meters)				
Distance from	N/A			
obstructions on roof				
(meters)				
Distance from	N/A			
obstructions not on				
roof (meters)				
Distance from trees	10			
(meters)	37/4			
Distance to furnace or	N/A			
incinerator flue				
(meters)	NT/A			
Distance between collocated monitors	N/A			
(meters) Unrestricted airflow	360°			
	300			
(degrees) Probe material for	NI/A			
	N/A			
reactive gases				
(e.g. Pyrex, stainless steel, Teflon)				
Residence time for	N/A			
	IN/A			
reactive gases (seconds)				
	No			
Will there be changes within the next 18	INU			
months? (Y/N)				
monuis: (1/1v)	l	1	l	

Is it suitable for	N/A		
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	N/A		
rate verification for			
manual PM samplers			
Frequency of flow	Monthly		
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A		
point QC check for			
gaseous instruments			
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	06/19/2015,		
flow rate audits for	12/09/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

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.

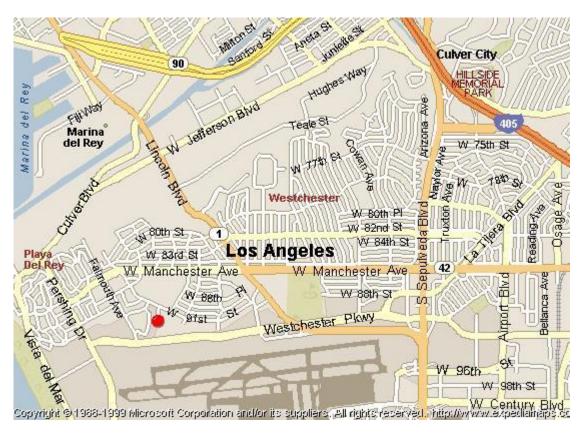


Looking at the probe from the South.



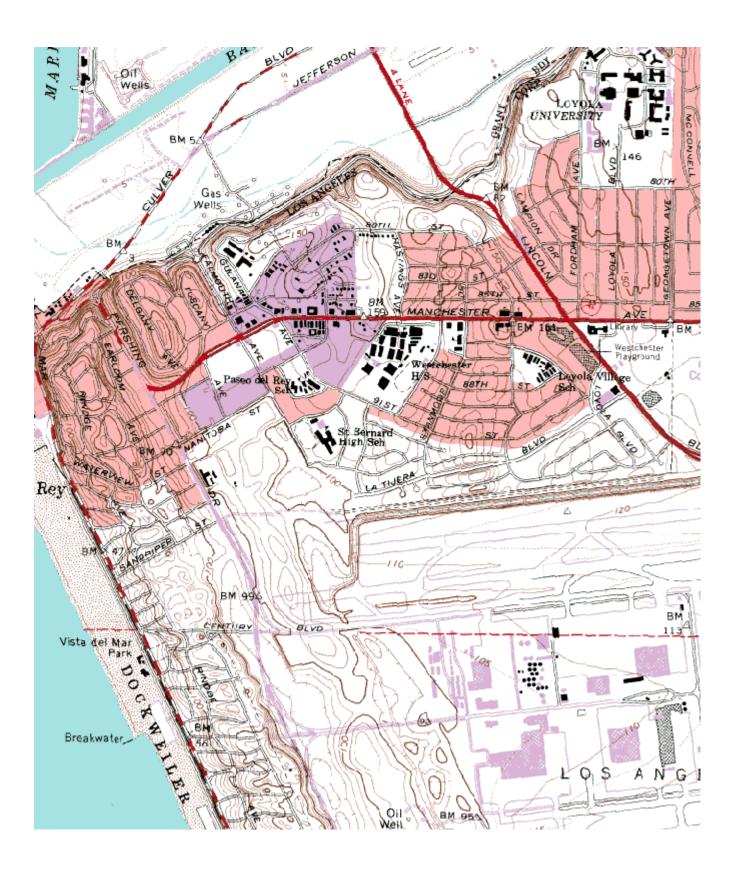
Looking at the probe from the West.

Quality Assurance Site Survey Report for LAX - Hastings



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060375005	70111	04/2004	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"N	118° 25' 49"W	37



Local site name		LAX - Hastings					
AQS ID		060375005					
GPS coordinates (decimal degrees)		Latitude: 33° 57' 18" Longitude: 118° 25' 49"					
Street Address			Westchester Pkwy, Los A				
County		Los Ange	eles				
Distance to roadways (1	meters)	85 - 92					
Traffic count (AADT, y	/ear)	2,000 / 2	012				
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	31080-L	31080-Los Angeles-Long Beach-Anaheim MSA				
(i.e. MSA, CBSA, other							
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Sulfur Dioxide, 1		
Parameter code	42101		42602	44201	42401		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure,	Population Exposure,	Population Exposure,	Population Exposure,		
	Background		Background	Background	Background		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	API/Teledyne 400E	Thermo 43i-TLE		
manufacturer and							
model							
Method code	158		074	087	560		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other			44 0 V CD	7.7. C) (D)	00 t 0 t 0		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics							
lab, other)	CCAOMD		CCAOMD	CCAOMD	CCAOMD		
Reporting Agency	SCAQMD Middle		SCAQMD Middle	SCAQMD	SCAQMD Naighborhand		
Spatial scale (e.g. micro, neighborhood)	Middle		Middle	Neighborhood	Neighborhood		
Monitoring start date	04/12/2004		04/12/2004	04/12/2004	04/12/2004		
(MM/DD/YYYY)	04/12/2004		04/12/2004	04/12/2004	04/12/2004		
Current sampling	1:1		1:1	1:1	1:1		
frequency (e.g.1:3,	1.1		1.1	1.1	1.1		
continuous)							
Calculated sampling	N/A		N/A	N/A	N/A		
frequency	- "						
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)							
Probe height (meters)	4.2		4.2	4.2	4.2		
Distance from	1.8		1.8	1.8	1.8		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)				1 2 7 / 1			
Distance from	N/A		N/A	N/A	N/A		
obstructions not on	n						
roof (meters)	1						

Distance from trees (meters)	20 (height 10)	20 (height 10)	20 (height 10)	20 (height 10)
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon
Residence time for reactive gases (seconds)	4.9	6.0	6.0	6.2
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	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
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	Nightly
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/24/2015	09/24/2015	09/24/2015	09/24/2015
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A

Pollutant, POC	Lead, 1	24 Hour VOCs (Type	3 Hour VOCs (Type	PM10,1
		1), 1	1), 1	
Parameter code	14129	See Table 26	See Table 26	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				
Site type(s)	Population Exposure/	Population	Population	Population Exposure/
	Background	Exposure/Background	Exposure/Background	Background
Monitor (type)	SLAMS	PAMS	PAMS	SLAMS

Instrument	Tisch Env. TE 6070	Xontech 910A	RM Environmental	GMW 1200 SSI
manufacturer and	TSP	Aonteen From	Systems 910A	GWW 1200 551
model	151		bystems 71011	
Method code	110	See Table 26	See Table 26	063, 102
FRM/FEM/ARM/	FRM	Other	Other	FRM
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency				
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date	04/12/2004	04/12/2004	04/12/2004	04/12/2004
(MM/DD/YYYY)				
Current sampling	1:6	1:6	1:3	1:6
frequency (e.g.1:3,				
continuous)				
Calculated sampling	1:6	No CFR mandated	No CFR mandated	1:6
frequency		sampling schedule.	sampling schedule.	
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	7/1 to 9/30	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	2.0	3.8	3.8	2.0
Distance from	1.1	1.4	1.4	1.1
supporting structure				
(meters)		1		
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)	27/4	27/4	27/4	27/4
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters) Distance from trees	16	16	16	16
	10	10	10	10
(meters) Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue	IN/A	IN/A	IN/A	IN/A
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors	14/74		IV/A	IV/A
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	Stainless steel	Stainless steel	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				

the annual PM2.5? (Y/N)				
Frequency of flow rate verification for manual PM samplers	Monthly	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	Annually	Annually	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	2/5/15	2/5/15	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/22/2015, 11/25/2015	N/A	N/A	05/22/2015, 11/25/2015

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.



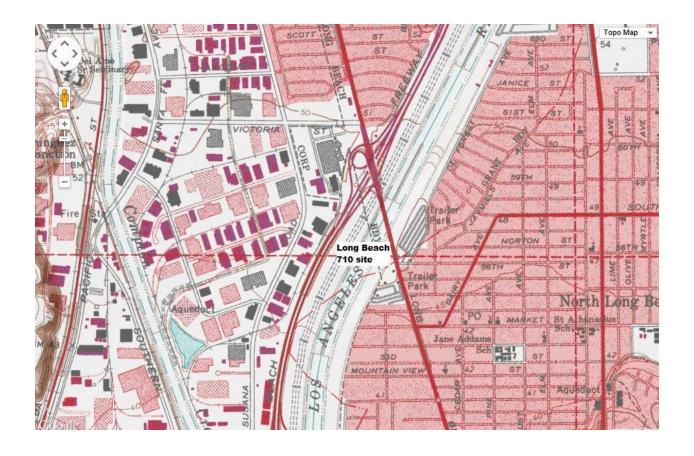
Looking at the probe from the West.

Quality Assurance Site Survey Report for Long Beach Route 710 Near Road Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374008	70032	1/1/2015	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
5895 Long Beach Blvd	Los Angeles	South Coast	33° 51' 34"N	118° 12' 01"W	12 m



Local site name	710		710 Near Road				
AQS ID			060374008				
			Latitude: 33° 51' 34"N Longitude: 118° 12' 01"W				
Street Address	,	5895 Lor	ng Beach Blvd., Long Be	ach, CA 90806			
County		Los Ange	eles	•			
Distance to roadways (r	meters)	20					
Traffic count (AADT, y		192,000	/ 2012				
Groundcover	,		/dry vegetation				
(e.g. asphalt, dirt, sand)			, 6				
Representative statistica		31080-Lo	os Angeles-Long Beach-A	Anaheim MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Nitrogen Die	oxide, 1	24 Hour PM2.5, 1	Continuous PM2.5, 3			
Parameter code	42602	· · · · · · · · · · · · · · · · · · ·	See Table 26	88101			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS\Nea		SLAMS\Near Road	SLAMS\Near Road			
Instrument	Thermo 42i		Thermo 2025i	Thermo 5014			
manufacturer and							
model							
Method code	074		118,145	183			
FRM/FEM/ARM/	FRM		FRM	FEM			
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		SCAQMD	N/A			
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Micro		Micro	Micro			
micro, neighborhood)							
Monitoring start date	01/2015		1/2015	1/2016			
(MM/DD/YYYY)	1 1		1.1	1 1			
Current sampling	1:1		1:1	1:1			
frequency (e.g.1:3,							
Coloulated compline	NI/A		1.1	1.1			
Calculated sampling	N/A		1:1	1:1			
frequency							
(e.g. 1:3/1:1) Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31			
Probe height (meters)	4.5		4.5	4.5			
Distance from	2.0		2.0	2.0			
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions on roof				·· = =			
(meters)							
Distance from	N/A		N/A	N/A			
obstructions not on							
roof (meters)							
` '			•	•			

Distance from trees	N/A	N/A	N/A	
(meters)	14/11	14/11	14/14	
Distance to furnace or	N/A	N/A	N/A	
incinerator flue	IV/A	IV/A	IV/A	
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors	IV/A	IV/A	IV/A	
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)	300	300	300	
Probe material for	Teflon	NA	NA	
reactive gases	TCHOIL	TAA .	IVA	
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	6.8	NA	NA	
reactive gases	0.0	11/1	11/1	
(seconds)				
Will there be changes	No	No	No	
within the next 18	110	110	140	
months? (Y/N)				
Is it suitable for	N/A	Yes	Yes	
comparison against	14/11	103	103	
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	Monthly	N/A	
rate verification for	14/11	Wilding	17/11	
manual PM samplers				
Frequency of flow	N/A	N/A	Monthly	
rate verification for	11/11	1 1/11	Weiting	
automated PM				
analyzers				
Frequency of one-	Nightly	N/A	N/A	
point QC check for	1 (18)	1,712	1,112	
gaseous instruments				
Last Annual	10/01/2015	N/A	N/A	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	11/07/2015	Scheduled for 2016	
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Long Beach Route 710 Near Road Site Photos

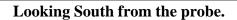




Looking North from the probe.

Looking East from the probe.







Looking West from the probe.

Long Beach Route 710 Near Road

Site Photos (Cont.)

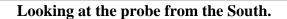




Looking at the probe from the North.

Looking at the probe from the East.

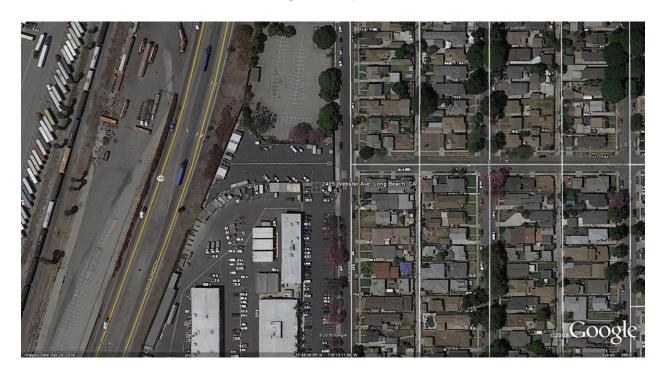






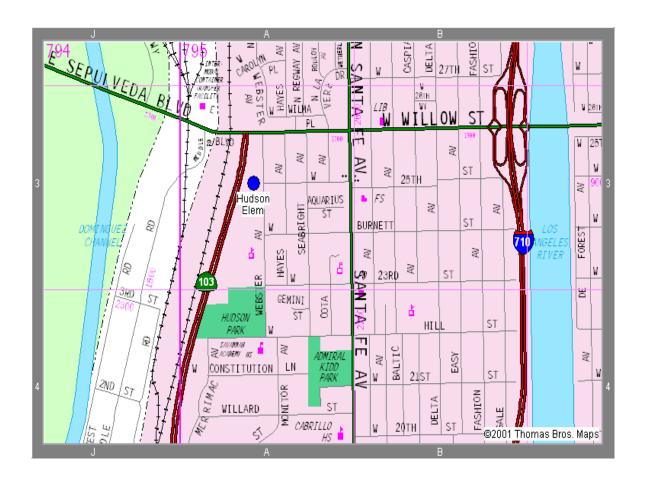
Looking at the probe from the West.

South Coast AQMD Site Survey Report for Long Beach (Hudson) Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374006	70033	01/2010	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
2425 Webster St. Long Beach, CA 90810	Los Angeles	South Coast	33° 48' 08" N	118° 13' 11" W	10



Local site name	Long Bea		ong Beach (Hudson)				
AQS ID			060374006				
GPS coordinates (decin	nal degrees)	Latitude:	atitude: 33° 48′ 08" N Longitude: 118° 13′ 11" W				
Street Address			ebster St. Long Beach, Ca				
County	ounty Los Ang						
Distance to roadways (1	meters)	5					
Traffic count (AADT, y	/ear)	unavailal	ole				
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	31080-L	os Angeles, Long Beach-	-Anaheim MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Sulfur Dioxide, 1		
Parameter code	42101		42602	44201	42401		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population I	Exposure	Highest Concentration	Population Exposure	Population Exposure		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba 370		Thermo 42i	Thermo 49i	Thermo 43i		
manufacturer and							
model							
Method code	158		074	087	560		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics							
lab, other)	22122			22.07.5	~~.~~		
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)	1/10		1/10	1/10	1/10		
Monitoring start date (MM/DD/YYYY)	1/10		1/10	1/10	1/10		
Current sampling	1:1		1:1	1:1	1:1		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A	N/A	N/A		
frequency							
(e.g. 1:3/1:1)							
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
Probe height (meters)	4		4	4	4		
Distance from	2.0		2.0	2.0	2.0		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	77/4		27/4	77/1	NY/A		
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)	l .						

				·
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)				
	N/A	NT/A	NT/A	NT/A
Distance between	N/A	N/A	N/A	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	Teflon	Teflon	Teflon	Teflon
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
		1.0	1.7	2.1
Residence time for	.8	1.2	1.7	3.1
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
	IVA	IVA	IN/A	IV/A
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for	17/11	14/11	17/11	11/11
automated PM				
analyzers		1	1	
Frequency of one-	Nightly	Nightly	Nightly	Nightly
point QC check for				
gaseous instruments				
Last Annual	03/24/15	05/22/15	03/24/15	03/24/15
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)	NT/A	NT/A	NT/A	NT/A
Last two semi-annual	N/A	N/A	N/A	N/A
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
Pollutant, POC	PM10, 2			
Parameter code	See Table 26			
Basic monitoring	NAAQS			
objective(s)				
Site type(s)	Population Exposure			
Monitor (type)	SLAMS/NATTS/			
	NCore			
			1	

GMW 1200 SSI, A

Instrument

	C 1	1	
manufacturer and	Sampler		
model	062 102		
Method code	063,102		
FRM/FEM/ARM/	FRM		
other	CC LOVED		
Collecting Agency	SCAQMD		
Analytical Lab	SCAQMD		
(i.e.weigh lab, toxics			
lab, other)	CCAOMD		
Reporting Agency	SCAQMD		
Spatial scale (e.g.	Neighborhood		
micro, neighborhood)	01/10		
Monitoring start date (MM/DD/YYYY)			
Current sampling	1:6		
frequency (e.g.1:3,			
continuous)			
Calculated sampling	1:6		
frequency			
(e.g. 1:3/1:1)			
Sampling season (MM/DD-MM/DD)	01/01-12/31		
Probe height (meters)	11.7		
Distance from	1.5		
supporting structure			
(meters)			
Distance from	N/A		
obstructions on roof			
(meters)			
Distance from	N/A		
obstructions not on			
roof (meters)			
Distance from trees	N/A		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow (degrees)	360°		
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18			
months? (Y/N)			
Is it suitable for	N/A		
comparison against			
the annual PM2.5?			

(Y/N)			
Frequency of flow	Monthly		
rate verification for			
manual PM samplers			
Frequency of flow	N/A		
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A		
point QC check for			
gaseous instruments			
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	05/22/2015,		
flow rate audits for	11/07/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

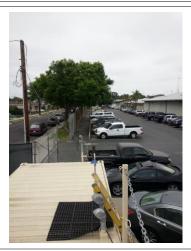
Hudson (Long Beach) Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Hudson (Long Beach) Site Photos (Cont.)



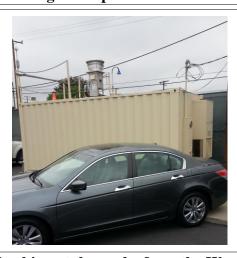
Looking at the probe from the North.



Looking at the probe from the East.



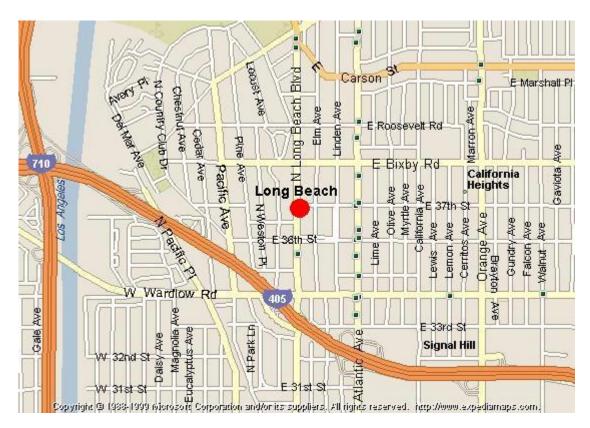
Looking at the probe from the South.



Looking at the probe from the West.

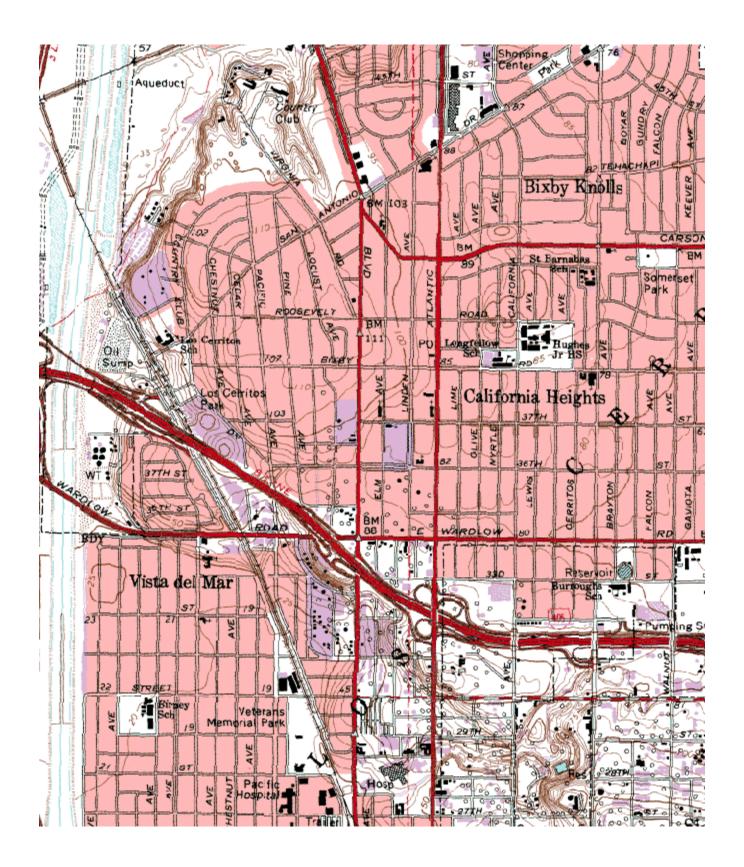
South Coast AQMD Site Survey Report for Long Beach (North)

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374002	70072	10/1962	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"N	118° 11' 20"W	29



Local site name		Long Bea	ach (North)			
AQS ID	AQS ID		060374002			
GPS coordinates (decimal degrees)		Latitude: 33° 49' 25" Longitude: 118° 11' 20"				
Street Address		3648 N Long Beach Blvd, Long Beach, CA 90807				
County		Los Ange	eles			
Distance to roadways (r	neters)	8 - 55 (T)	wo separate monitoring	compounds); 497		
Traffic count (AADT, y	vear)	19,900 / 2	2012; 405/Long Beach B	Slvd., 280,000, 2011		
Groundcover		Asphalt				
(e.g. asphalt, dirt, sand)						
Representative statistica		31080-Lo	os Angeles-Long Beach-	Anaheim MSA		
(i.e. MSA, CBSA, other	()					
Pollutant, POC	24 Hour PM					
Parameter code	See Table 26	j				
Basic monitoring	NAAQS					
objective(s)						
Site type(s)	Highest					
	Concentration	n				
Monitor (type)	SLAMS					
Instrument	Andersen RA	AAS				
manufacturer and	PM2.5					
model Mathadas da	790 120					
Method code FRM/FEM/ARM/	780, 120					
other	FRM					
Collecting Agency	SCAQMD					
	_					
Analytical Lab	SCAQMD					
(i.e.weigh lab, toxics lab, other)						
Reporting Agency	SCAQMD					
Spatial scale (e.g.	Neighborhoo	vd.				
micro, neighborhood)	Neighborhoo	,u				
Monitoring start date	01/03/99					
(MM/DD/YYYY)	01/03/77					
Current sampling	1:1					
frequency (e.g.1:3,						
continuous)						
Calculated sampling	1:3					
frequency						
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31					
(MM/DD-MM/DD)	2.0					
Probe height (meters)	2.8					
Distance from	1.8					
supporting structure (meters)						
Distance from	N/A					
obstructions on roof	11/71					
(meters)						
Distance from	N/A					
obstructions not on						
roof (meters)						
` "/	l		1		ı	

	1	1	T	
Distance from trees	20			
(meters)				
Distance to furnace or	N/A			
incinerator flue				
(meters)				
Distance between	N/A			
collocated monitors				
(meters)				
Unrestricted airflow	360°			
(degrees)				
Probe material for	N/A			
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A			
reactive gases				
(seconds)				
Will there be changes	No			
within the next 18	110			
months? (Y/N)				
Is it suitable for	Yes			
comparison against	103			
the annual PM2.5?				
(Y/N)				
Frequency of flow	Monthly			
rate verification for	Wilding			
manual PM samplers				
Frequency of flow	N/A			
rate verification for	IN/A			
automated PM				
analyzers Frequency of one-	N/A			
point QC check for	IN/A			
gaseous instruments				
Last Annual	N/A			
Performance	1N/A			
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	05/25/2015,			
flow rate audits for	11/25/2015			
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Long Beach (North) Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Long Beach (North) Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



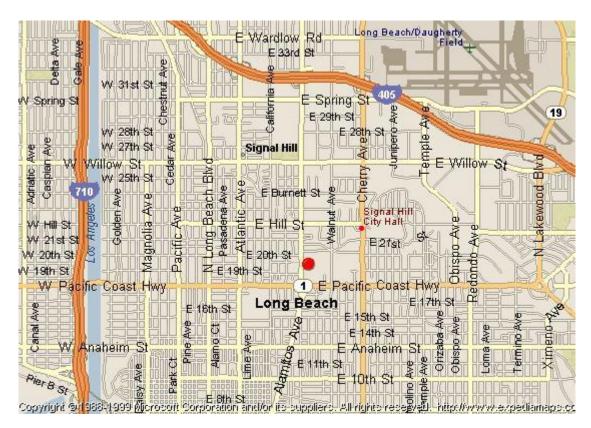
Looking at the probe from the South.



Looking at the probe from the West.

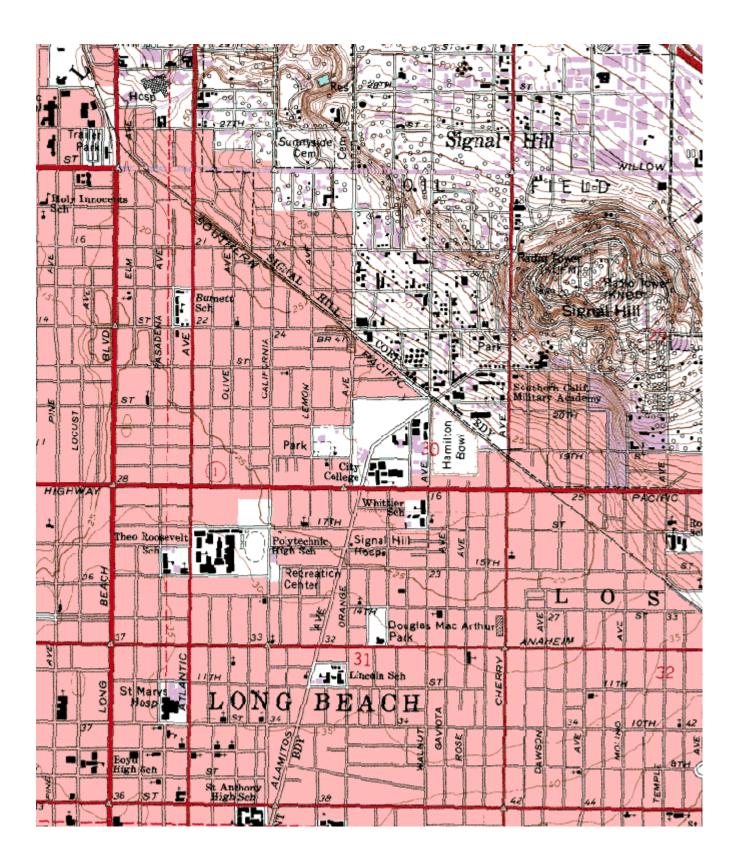
Quality Assurance Site Survey Report for South Long Beach

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060374004	70110	06/2003	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"N	118° 10' 31"W	6



Local site name	South		South Long Beach				
AQS ID	AQS ID 0		060374004				
GPS coordinates (decin	nal degrees)	Latitude: 33° 47' 32" Longitude: 118° 10' 31"					
Street Address		1305 E Pa	1305 E Pacific Coast Hwy, Long Beach, CA 90806				
County		Los Ange	eles				
Distance to roadways (1	neters)	86					
Traffic count (AADT, y	vear)	10,000 / 2	2012				
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistica		31080-Lc	s Angeles-Long Beach	-Anaheim MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	PM10, 2		Lead, 2	Continuous PM2.5, 3	24 Hour PM2.5, 1		
Parameter code	See Table 26	5	14129	88101	See Table 26		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Highest		Highest	Highest	Highest		
16 10 (0.00)	Concentration	n	Concentration	Concentration	Concentration		
Monitor (type)	SLAMS	1200	SLAMS	SLAMS PAN 1020	SLAMS		
Instrument	Sierra Ander	sen 1200	Tisch TE 300-310	Met One BAM 1020	Andersen RAAS		
manufacturer and	SSI		TSP		PM2.5		
model Method code	063, 102		110	170	790 120		
FRM/FEM/ARM/	FRM		FRM	FEM	780, 120 FRM		
other	FKM		LKM	FEM	FKIVI		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
(i.e.weigh lab, toxics	SCAQMD		Beriquib	Berigind	BCHQMB		
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)							
Monitoring start date	06/20/2003		06/20/2003	06/20/2003	06/20/2003		
(MM/DD/YYYY)							
Current sampling	1:6		1:6	1:1	1:1		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	1:6		1:6	N/A	1:3		
frequency							
(e.g. 1:3/1:1)	01/01/10/01		01/01 10/01	01/01/10/01	01/01/10/01		
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)	2.44		2.11	2.64	2.04		
Probe height (meters) Distance from	2.44		2.11	2.64	2.84 1.83		
supporting structure	1.5		1.12	2.04	1.03		
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof				- 1/1-1	- 1/4 -		
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							
	•			•			

Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	1.5 (Flow <200 lpm)	1.5 (Flow <200 lpm)
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases (seconds)	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	No, unless the manual sampler has missing data.	Yes
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/25/2015, 11/07/2015	04/25/2015, 11/07/2015	05/25/2015, 11/07/2015	05/25/2015, 11/07/2015

South Long Beach Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

South Long Beach Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



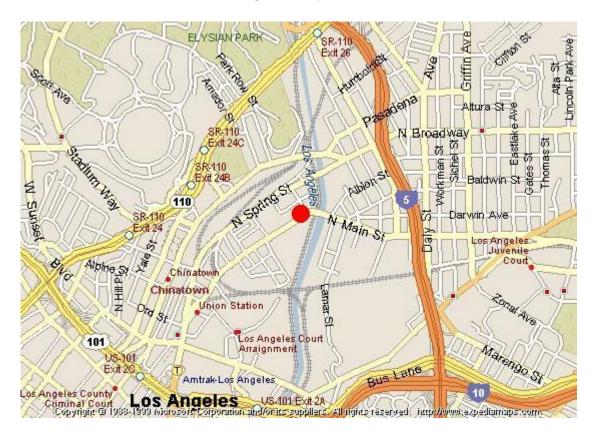
Looking at the probe from the South.



Looking at the probe from the West.

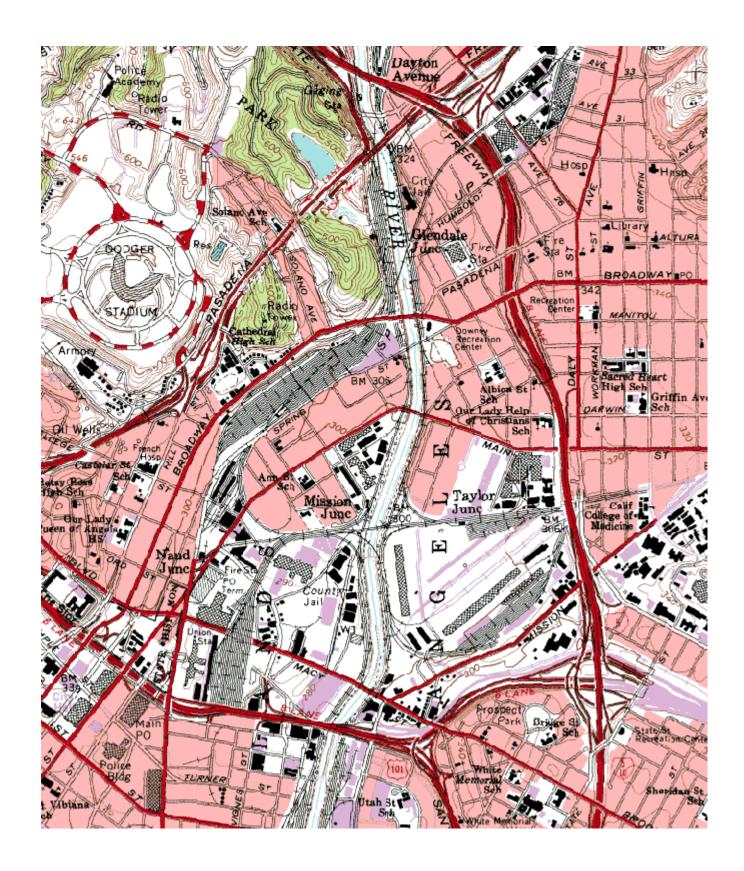
South Coast AQMD Site Survey Report for Los Angeles (Central)-North Main Street

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371103	70087	09/1979	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"N	118° 13' 36"W	89



Local site name		Ing Ana	alas North Main Street				
AQS ID			os Angeles-North Main Street				
	1 . 1		060371103				
GPS coordinates (decin	nal degrees)		Latitude: 34° 03' 59" Longitude: 118° 13' 36" 1630 North Main Street, Los Angeles, CA 90012				
Street Address				geles, CA 90012			
County		Los Ang	eles				
Distance to roadways (r		51 - 71					
Traffic count (AADT, y	vear)	15,276 /	2012				
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistica		31080-L	os Angeles, Long Beach-	-Anaheim MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Sulfur Dioxide, 9		
Parameter code	42101		42602	44201	42401		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population I	Exposure	Highest Concentration	Population Exposure	Population Exposure		
Monitor (type)	SLAMS\PA	MS\	SLAMS\PAMS\ NCore	SLAMS\PAMS\ NCore	SLAMS\NCore		
Instrument	Horiba 370		Thermo 42i	API/Teledyne 400E	Thermo 43i-TLE		
manufacturer and				I I I I I I I I I I I I I I I I I I I			
model							
Method code	158		074	087	560		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other	1101		TRIVI	LEN	I Divi		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics	IV/A		14/11	14/11	14/11		
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	nd	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)	rveighboilio	, a	ricigiloomood	reignoornood	reighborhood		
Monitoring start date	09/1979		09/1979	09/1979	09/1979		
(MM/DD/YYYY)	03/13/7		05/15/5	05/15/15	03/13/3		
Current sampling	1:1		1:1	1:1	1:1		
frequency (e.g.1:3,	1.1		1.1	1.1	1.1		
continuous)							
Calculated sampling	N/A		N/A	N/A	N/A		
frequency				= " * *	= "		
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)	10.0		10.0	12.2	10.0		
Probe height (meters)	12.3		12.3	12.3	12.3		
Distance from	2.0		2.0	2.0	2.0		
supporting structure							
(meters)	37/4		27/4	N7/4	>7/A		
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	37/4		27/4	N7/4	NY/A		
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Distance from trees (meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	45	45	45	45
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon
Residence time for reactive gases (seconds)	.8	1.2	1.7	3.1
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	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
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	Nightly
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/17/2015	09/17/2015	09/17/2015	09/17/2015
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A

Pollutant, POC	PM10, 2	PM10, 4	Lead, 3	Lead, 2
Parameter code	See Table 26	See Table 26	14129	14129
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure

Monitor (type)	SLAMS/NATTS/	SLAMS/NATTS/	SLAMS/Pb/QA	SLAMS/Pb
	NCore	NCore/QA Collocated	Collocated	
Instrument	GMW 1200 SSI, A	GMW 1200 SSI, B	GMW 1200 TSP, B	GMW 1200 TSP, A
manufacturer and	Sampler	Sampler	Sampler	Sampler
model				
Method code	063, 102	063, 102	110	110
FRM/FEM/ARM/	FRM	FRM	FRM	FRM
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date	01/1985	01/2007	09/1979	09/1979
(MM/DD/YYYY)				
Current sampling	1:6	6 per Year	1:6	1:6
frequency (e.g.1:3,				
continuous)				
Calculated sampling	1:6	6 per Year	1:12	1:6
frequency				
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	11.7	11.7	11.3	11.3
Distance from	1.5	1.5	1.1	1.1
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	27	27	27	27
incinerator flue				
(meters)				
Distance between	2	2	2	2
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				

Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/20/2015, 11/18/2015	05/20/2015, 11/18/2015	05/20/2015, 11/18/2015	05/20/2015, 11/18/2015

Pollutant, POC	Continuous PM10,	Continuous PM2.5,	Speciated PM2.5, 11	Speciated PM2.5, 12
	PM Coarse, 9	PM Coarse, 9		
Parameter code	85101	88101	See Table 26	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				
Site type(s)	Population Exposure	Highest	Highest	Highest
		Concentration	Concentration	Concentration
Monitor (type)	SLAMS/NCore	SLAMS/NCore	SLAMS	SLAMS/QA
				Collocated
Instrument	Met One BAM 1020	Met One BAM 1020	Met One SASS, A	Met One SASS, B
manufacturer and			Sampler	Sampler
model				
Method code	122	170	See Table 26	See Table 26
FRM/FEM/ARM/	FEM	FEM	Other	Other
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date	11/04/2010	03/08/2011	03/2001	03/2001
(MM/DD/YYYY)				
Current sampling	1:1	1:1	1:6	1:6
frequency (e.g.1:3,				

continuous)				
Calculated sampling	N/A	N/A	No CFR mandated	No CFR mandated
frequency	= =	,, <u>-</u> -	sampling schedule.	sampling schedule.
(e.g. 1:3/1:1)			F 8	F 6
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	12.0	12.8	12.0	12.0
Distance from	1.8	2.6	1.8	1.8
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	51	51	51	51
incinerator flue				
(meters)	4	4	2	2
Distance between collocated monitors	4	4	2	2
(meters) Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	N/A	N/A	N/A	N/A
reactive gases	14/11	14/14	14/11	14/11
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	No, unless the manual	N/A	N/A
comparison against		sampler has missing		
the annual PM2.5?		data.		
(Y/N) Frequency of flow	N/A	N/A	Monthly	Monthly
rate verification for	IN/A	IN/A	Monthly	Monthly
manual PM samplers				
Frequency of flow	Monthly	Monthly	N/A	N/A
rate verification for	1.1011111	1,10110111	- 1/22	- 4/
automated PM				
analyzers				
Frequency of one-	N/A	N/A	N/A	N/A
point QC check for				
gaseous instruments				
Last Annual	N/A	N/A	N/A	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				

Last two semi-annual	05/20/2015,	05/20/2015,	05/20/2015,	05/20/2015,
flow rate audits for	11/18/2015	11/18/2015	11/18/2015	11/18/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	24 Hour PM2.5, 1	24 Hour PM2.5, 2	24 Hour VOCs, 2	3 Hour VOCs, 1
Parameter code	See Table 26	See Table 26	See Table 26	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration
Monitor (type)	SLAMS	SLAMS/QA	Research	Research
		Collocated	Support/NATTS	Support/PAMS
Instrument	Thermo 2025i PM2.5,	Thermo 2025i PM2.5,	Xontech 910A, A	Xontech 910A, B
manufacturer and	A Sampler	B Sampler	Sampler	Sampler
model				
Method code	118, 145	118, 145	See Table 26	See Table 26
FRM/FEM/ARM/	FRM	FRM	Other	Other
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date	01/1999	01/1999	01/2007	01/2007
(MM/DD/YYYY)				
Current sampling	1:1	1:6	1:6	1:1 during Intensive
frequency (e.g.1:3,				PAMS Season
continuous)				
Calculated sampling	1:3	1:6	No CFR mandated	No CFR mandated
frequency			sampling schedule.	sampling schedule.
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	07/01-09/30
(MM/DD-MM/DD)				
Probe height (meters)	12.1	12.1	12.6	12.6
Distance from	1	1	1	1
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)				

Distance to furnace or incinerator flue (meters)	52	52	52	52
Distance between collocated monitors (meters)	2	2	2	2
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	Stainless steel	Stainless steel
Residence time for reactive gases (seconds)	N/A	N/A	0.1	0.1
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	Yes	Yes	N/A	N/A
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	Semi Annually	Semi Annually
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	10/15/15	10/15/15
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/20/2015, 11/18/2015	05/20/2015, 11/18/2015	N/A	N/A

Pollutant, POC	Metals, Cr6,	Metals, Cr6,	Polycyclic Aromatic	
	Carbonyls, 4	Carbonyls, 5	Hydrocarbons, 1	
Parameter code	See Table 26	See Table 26	See Table 26	
Basic monitoring	NAAQS	NAAQS	NAAQS	
objective(s)				
Site type(s)	Population Exposure	Population Exposure	Population Exposure	
Monitor (type)	SLAMS/NATTS	SLAMS/NATTS/QA	SLAMS/NATTS	
		Collocated		

Total	DME: 024 A	DM E 024 D	T'. 1 DITE	
Instrument	RM Env. 924,A	RM Env. 924, B	Tisch PUF	
manufacturer and	Sampler	Sampler		
model	G . T. 11 . 26	G F 11 26	G . T. 11 . 26	
Method code	See Table 26	See Table 26	See Table 26	
FRM/FEM/ARM/	Other	Other	Other	
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	ERG North Carolina	
Spatial scale (e.g.	Urban	Urban	Urban	
micro, neighborhood)				
Monitoring start date	01/2007	01/2007	01/2007	
(MM/DD/YYYY)				
Current sampling	See Table 26	See Table 26	See Table 26	
frequency (e.g.1:3,				
continuous)				
Calculated sampling	No CFR mandated	No CFR mandated	No CFR mandated	
frequency	sampling schedule.	sampling schedule.	sampling schedule.	
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)				
Probe height (meters)	12.18	12.18	12.18	
Distance from	1.9	1.9	1.9	
supporting structure				
(meters)				
Distance from	N/A	N/A	Yes	
obstructions on roof	11/11	1011		
(meters)				
Distance from	N/A	N/A	N/A	
obstructions not on	14/11	14/11	14/11	
roof (meters)				
Distance from trees	N/A	N/A	N/A	
(meters)	IV/A	IV/A	17/14	
Distance to furnace or	52	52	52	
incinerator flue	32	32	32	
(meters)				
Distance between	2	2	N/A	
collocated monitors	<u></u>	<u></u>	11/71	
(meters)				
Unrestricted airflow	360°	360°	360°	
	300	300	300	
(degrees)	NI/A	NI/A	NI/A	
Probe material for	N/A	N/A	N/A	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)	NT/A	NI/A	DI/A	
Residence time for	N/A	N/A	N/A	
reactive gases				
(seconds)			137	
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				

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

Pollutant, POC	Metals, Cr6, Carbonyls, N/A	VOCs, N/A	Carbonyls, 2
Parameter code	N/A	N/A	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Population Exposure	Highest Concentration
Monitor (type)	CA Air Toxics	CA Air Toxics	SLAMS/PAMS
Instrument manufacturer and model	RM Env. 924	RM Env. 910PC	Atec 8000
Method code	N/A	N/A	See Table 26
FRM/FEM/ARM/ other	Other	Other	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e.weigh lab, toxics lab, other)	ARB Toxics	ARB Toxics	SCAQMD
Reporting Agency	ARB	ARB	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	01/1989	01/1989	06/01/2009

G 1:	1.10	1 1 1 2	1.6 1.17	T
Current sampling	1:12	1:12	1:6 or 1:1 Intensive	
frequency (e.g.1:3,			PAMS	
continuous)				
Calculated sampling	No CFR mandated	No CFR mandated	No CFR mandated	
frequency	sampling schedule.	sampling schedule.	sampling schedule.	
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)				
Probe height (meters)	12.18	12.6	12.3	
Distance from	1.9	2.3	2	
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	
(meters)				
Distance to furnace or	52	52	52	
incinerator flue				
(meters)				
Distance between	2	2	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	360	360	360	
(degrees)				
Probe material for	N/A	Stainless steel	Stainless steel	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	5.0	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
comparison against	11/11	11/11	17/11	
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	
rate verification for		- "	= " = =	
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	
rate verification for	11/11	1 1/ / 1	11/11	
automated PM				
analyzers				
Frequency of one-	N/A	N/A	N/A	
point QC check for	11/11	11/11	11/11	
gaseous instruments				
gascous misu uments	1			1

Last Annual	N/A	N/A	N/A	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
(

Pollutant, POC	PM2.5 Carbon, N/A	PM2.5 Carbon, N/A	Speciated PM2.5, N/A	Speciated PM2.5, N/A
Parameter code	N/A	N/A	N/A	N/A
Basic monitoring	NAAQS, Research	NAAQS, Research	NAAQS, Research	NAAQS, Research
objective(s)	Support	Support	Support	Support
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor (type)	STN	STN /QA Collocated	STN	STN /QA Collocated
Instrument	URG 3000, A	URG 3000, B	Met One SASS, A	Met One SASS, B
manufacturer and model	Sampler	Sampler	Sampler	Sampler
Method code	N/A	N/A	N/A	N/A
FRM/FEM/ARM/ other	Other	Other	Other	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e.weigh lab, toxics lab, other)	EPA STN	EPA STN	EPA STN	EPA STN
Reporting Agency	EPA	EPA	EPA	EPA
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	03/07/2007	03/07/2007	03/2001	03/2001
Current sampling frequency (e.g.1:3, continuous)	1:3	1:6	1:3	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	1:3	1:3	1:3	1:3
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	12.3	12.3	12.0	12.0
Distance from supporting structure (meters)	2.0	2.0	1.8	1.8
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A

Distance from	N/A	N/A	N/A	N/A
obstructions not on	IV/A	IV/A	IVA	IV/A
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
	N/A	IN/A	N/A	N/A
(meters)	50		1.50	
Distance to furnace or	52	52	52	52
incinerator flue				
(meters)				
Distance between	2	2	2	2
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against			- " - " - " - " - " - " - " - " - " - "	- " - "
the annual PM2.5?				
(Y/N)				
Frequency of flow	Monthly	Monthly	Monthly	Monthly
rate verification for			1.1011111	1110110111y
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for	14/11	17/11	14/11	14/21
automated PM				
analyzers				
Frequency of one-	N/A	N/A	N/A	N/A
point QC check for	17/74	11/13	1 1/Λ	11/1
gaseous instruments				
Last Annual	N/A	N/A	N/A	N/A
Performance	11/71	11/71	11/71	11/71
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)	NI/A	NT/A	NI/A	N/A
Last two semi-annual	N/A	N/A	N/A	N/A
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Carbon Monoxide, 9	NOy, 9	
Parameter code	42101	42612	

Dania manitanina	NAAOC	NAAOC	
Basic monitoring	NAAQS	NAAQS	
objective(s)	Danulatian Empanya	III also at	
Site type(s)	Population Exposure	Highest Concentration	
Maniton (tyma)	NCore	NCore	
Monitor (type) Instrument		Thermo 42i-Y	
	Teledyne 300EU	1 nermo 421- Y	
manufacturer and			
model	502	574	
Method code	593	574	
FRM/FEM/ARM/	FRM	N/A	
other			
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	N/A	N/A	
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)			
Monitoring start date	01/01/2011	01/01/2011	
(MM/DD/YYYY)			
Current sampling	1:1	1:1	
frequency (e.g.1:3,	·		
continuous)			
Calculated sampling	N/A	N/A	
frequency	1,111	1,712	
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)	01/01 12/31	01/01 12/31	
Probe height (meters)	12.3	12.3	
Distance from	2.0	2.0	
supporting structure	2.0	2.0	
(meters)			
Distance from	N/A	N/A	
obstructions on roof	IV/A	IV/A	
(meters)			
Distance from	N/A	N/A	
	IN/A	IN/A	
obstructions not on			
roof (meters)	NT/A	NT/A	
Distance from trees	N/A	N/A	
(meters)	4.5	4.5	
Distance to furnace or	45	45	
incinerator flue			
(meters)	NT/A	NT/A	
Distance between	N/A	N/A	
collocated monitors			
(meters)	2600	2600	
Unrestricted airflow	360°	360°	
(degrees)			
Probe material for	Teflon	Teflon	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
	•		

Will there be changes within the next 18 months? (Y/N)	No	No	
Is it suitable for comparison against the annual PM2.5? (Y/N)	No	No	
Frequency of flow rate verification for manual PM samplers	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/17/2015	09/17/2015	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	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.

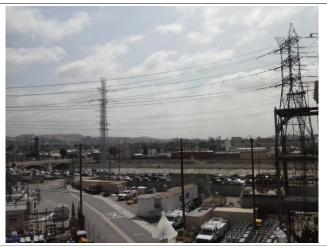


Looking at the probe from the West.

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.



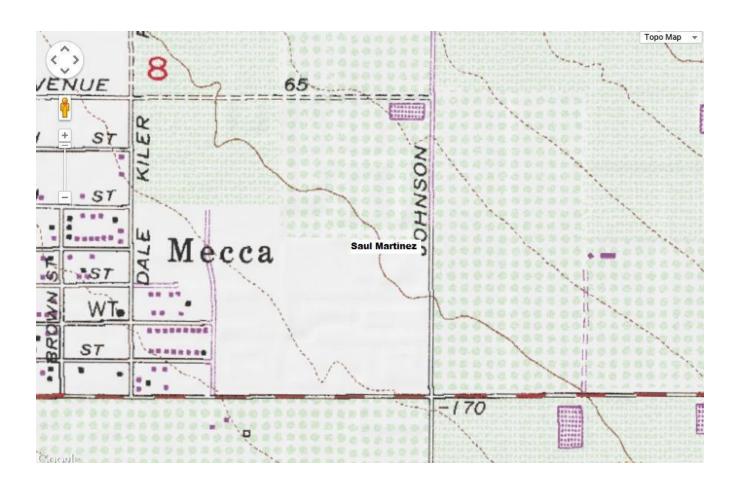
Looking at the probe from the West.

Quality Assurance Site Survey Report for Mecca (Saul Martinez)



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060652005	33033	1/2011	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
65705 Johnson St, Mecca, CA 92254	Riverside	South Coast	33° 34' 19"N	116° 03' 49"W	0



Detailed Site Information

Local site name		Saul Mar	tinez (Mecca)			
AQS ID		06065200				
GPS coordinates (decin	nal degrees)		: 33° 34' 19"N Longitude: 116° 03' 49"W			
Street Address	ur degrees)		hnson St, Mecca, CA 92254			
County						
Distance to roadways (r	neters)	25				
Traffic count (AADT, y		< 500 / 20	012			
Groundcover	,	Weeds				
(e.g. asphalt, dirt, sand)						
Representative statistica	al area name	40140-Ri	verside-San Bernardino-	Ontario, CA MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	PM10, 1		Continuous PM10, 3			
Parameter code	See Table 26	ó	81102			
Basic monitoring	NAAQS		NAAQS			
objective(s)						
Site type(s)	Population E	Exposure	Highest			
			Concentration			
Monitor (type)	SLAMS		SLAMS			
Instrument	Sierra Ander	rsen 1200	R&P 1400A TEOM			
manufacturer and	SSI					
model	0.52 102		0.50			
Method code	063, 102		079			
FRM/FEM/ARM/	FRM		FEM			
other	CCAOMD		CCAOMD			
Collecting Agency	SCAQMD		SCAQMD			
Analytical Lab	SCAQMD		N/A			
(i.e.weigh lab, toxics						
lab, other)	CCAOMD		CCAOMD			
Reporting Agency	SCAQMD	. 1	SCAQMD			
Spatial scale (e.g. micro, neighborhood)	Neighborhoo	oa	Neighborhood			
Monitoring start date	01/2011		09/01/2011			
(MM/DD/YYYY)	01/2011		09/01/2011			
Current sampling	1:6		1;1			
frequency (e.g.1:3,	1.0		1,1			
continuous)						
Calculated sampling	1:6		N/A			
frequency						
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31			
(MM/DD-MM/DD)						
Probe height (meters)	2.6		2.4			
Distance from	1		1.4			
supporting structure						
(meters)						
Distance from	N/A		N/A			
obstructions on roof						
(meters)	NT/A		NT/A			
Distance from	N/A		N/A			
obstructions not on						
roof (meters)						

D		137/4	1	I
Distance from trees (meters)	N/A	N/A		
Distance to furnace or incinerator flue (meters)	N/A	N/A		
Distance between collocated monitors (meters)	N/A	2.6		
Unrestricted airflow (degrees)	360°	360°		
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A		
Residence time for reactive gases (seconds)	N/A	N/A		
Will there be changes within the next 18 months? (Y/N)	No	No		
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A		
Frequency of flow rate verification for manual PM samplers	Monthly	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly		
Frequency of one- point QC check for gaseous instruments	N/A	N/A		
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	Scheduled for 2016	Scheduled for 2016		

Mecca-Saul Martinez Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Mecca-Saul Martinez Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.

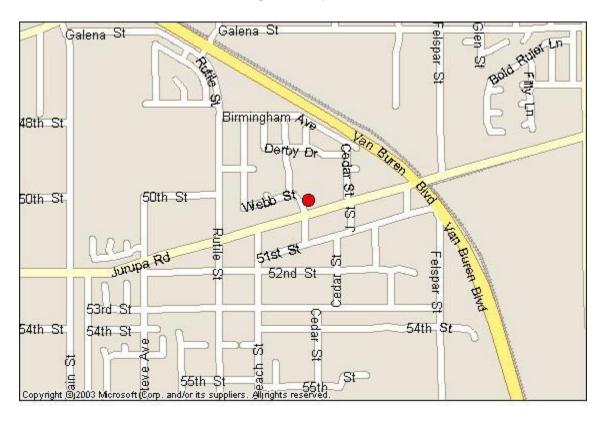


Looking at the probe from the South.



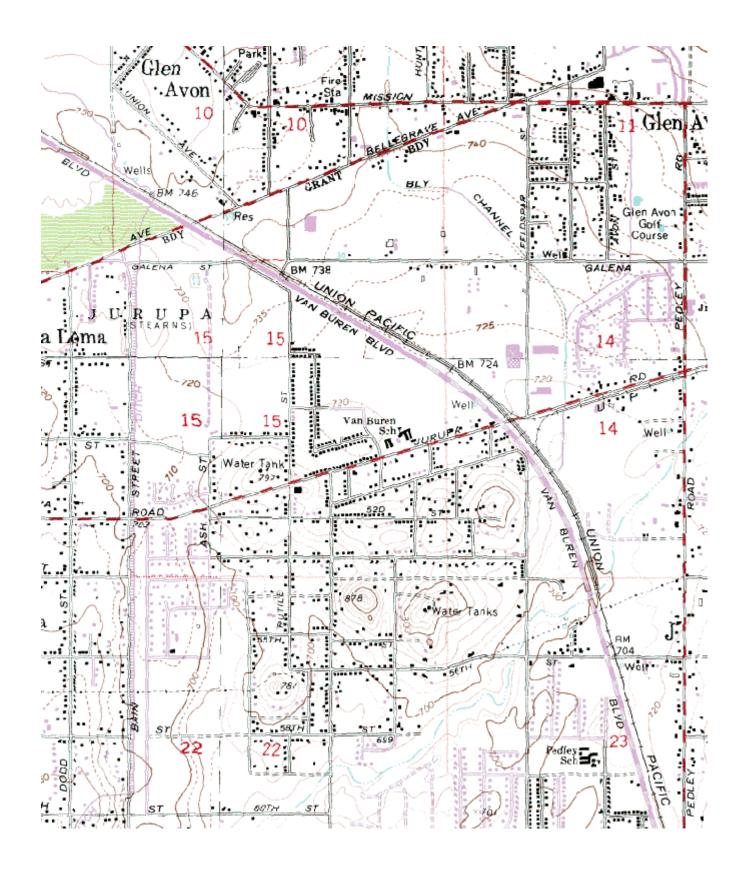
Looking at the probe from the West.

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



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060658005	33165	11/2005	South Coast AQMD (061)

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



Detailed Site Information

Local site name	Mira Lom		ira Loma (Van Buren)				
AQS ID			60658005				
GPS coordinates (decin	nal degrees)	Latitude:	atitude: 33° 59' 46" Longitude: 117° 29' 32"				
Street Address	Street Address 5130 Poi						
County		Riverside	e				
Distance to roadways (1	Distance to roadways (meters)						
Traffic count (AADT, y	vear)	< 1,000 /	2012				
Groundcover		Gravel					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	40140-R	iverside, San Bernardino-	-Ontario, CA MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	PM10, 1		
Parameter code	42101		42602	44201	See Table 26		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population F	Exposure	Population Exposure	Population Exposure	Highest Concentration		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 360	Thermo 42i	API/Teledyne 400E	GMW 1200 SSI		
manufacturer and							
model							
Method code	106		074	087	063, 102		
FRM/FEM/ARM/	FRM		FRM	FEM	FRM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	SCAQMD		
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)	11/00/2005		11/00/2005	11/00/2005	11/00/2007		
Monitoring start date (MM/DD/YYYY)	11/09/2005		11/09/2005	11/09/2005	11/09/2005		
Current sampling	1:1		1:1	1:1	1:6		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A	N/A	1:6		
frequency							
(e.g. 1:3/1:1)							
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
Probe height (meters)	4.4		4.4	4.4	2.6		
Distance from	1.8		1.8	1.8	1.6		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	37/4		77/4	27/4	27/4		
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Distance from trees (meters)	36	36	36	36
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	2
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	5.6	6.1	6.4	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/13/2015	11/13/2015	11/13/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	05/19/2015, 11/13/2015

Pollutant, POC	Continuous PM2.5, 3	24 Hour PM2.5, 1	Continuous PM10, 3	24 Hour PM2.5, 2
Parameter code	88101	See Table 26	81102	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration
Monitor (type)	SLAMS	SLAMS	SLAMS	SLAMS/QA
				Collocated

Instrument	Met One BAM 1020	Thermo 2025i PM2.5	Met One BAM 1020	Thermo 2025i PM2.5
manufacturer and	Wet One BAW 1020	A Sampler	Met Olle BAWI 1020	B Sampler
model		A Sampler		b Sampler
Method code	170	118, 145	122	118, 145
FRM/FEM/ARM/	FEM	FRM	FEM	FRM
other	FEM	LVI	LEM	LKIM
Collecting Agency	CCAOMD	SCAQMD	SCAOMD	CCAOMD
Analytical Lab	SCAQMD N/A		SCAQMD	SCAOMD
	IN/A	SCAQMD	N/A	SCAQMD
(i.e.weigh lab, toxics				
lab, other)	CCAOMD	CC A O MD	CCAOMD	GC A O A CD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)	4.4 (0.0 (0.0 0.0)	40/05/0005	00/00/0040	00/04/0040
Monitoring start date	11/09/2005	12/07/2005	03/08/2010	03/01/2012
(MM/DD/YYYY)				
Current sampling	1:1	1:1	1:1	1:6
frequency (e.g.1:3,				
continuous)				
Calculated sampling	N/A	1:3	N/A	1:6
frequency				
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	4.5	2.9	4.5	2.9
Distance from	1.9	1.9	1.9	1.9
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)				
Distance between	2	2	2	2
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18	= . *	=		= .0
months? (Y/N)				
Is it suitable for	No, unless the manual	Yes	No	Yes
comparison against	sampler has missing	100	110	100
comparison against	sampler has imssing	L	1	

the annual PM2.5? (Y/N)	data.			
Frequency of flow rate verification for manual PM samplers	N/A	Bi-Weekly	N/A	Bi-Weekly
Frequency of flow rate verification for automated PM analyzers	Monthly	N/A	Monthly	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	06/20/2015, 12/05/2015	05/19/2015, 11/13/2015	06/20/2015, 12/05/2015	06/04/2015, 11/13/2015

Pollutant, POC	PM10, 2	PM10, 4	
Parameter code	See Table 26	See Table 26	
Basic monitoring	NAAQS	NAAQS	
objective(s)			
Site type(s)	Highest	Highest	
	Concentration	Concentration	
Monitor (type)	SLAMS	SLAMS	
Instrument	GMW 1200 SSI	GMW 1200 SSI	
manufacturer and			
model			
Method code	063, 102	063, 102	
FRM/FEM/ARM/	FRM	FRM	
other			
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	SCAQMD	SCAQMD	
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)			
Monitoring start date	11/09/2005	07/01/2014	
(MM/DD/YYYY)			
Current sampling	1:6	1:6	
frequency (e.g.1:3)			
Calculated sampling	1:6	1:6	
frequency			
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)			
Probe height (meters)	2.6	2.6	

D:	1.6		 1
Distance from	1.6	1.6	
supporting structure			
(meters)			
Distance from	N/A	N/A	
obstructions on roof			
(meters)			
Distance from	N/A	N/A	
obstructions not on			
roof (meters)			
Distance from trees	36	36	
(meters)			
Distance to furnace or	N/A	N/A	
incinerator flue	14/21	14/11	
(meters)			
Distance between	2	2	
collocated monitors	\ \(\times \)	2	
(meters)	2600	2600	
Unrestricted airflow	360°	360°	
(degrees)			
Probe material for	N/A	N/A	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
Will there be changes	No	No	
within the next 18			
months? (Y/N)			
Is it suitable for	N/A	N/A	
comparison against	14/71	14/11	
the annual PM2.5?			
Frequency of flow	Monthly	Monthly	
rate verification for	Monuny	Wollding	
manual PM samplers	27/4	27/4	
Frequency of flow	N/A	N/A	
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A	N/A	
point QC check for			
gaseous instruments			
Last Annual	N/A	N/A	
Performance			
Evaluation for			
gaseous parameters			
Last two semi-annual	05/19/2015,	05/19/2015,	
flow rate audits for	11/13/2015	11/13/2015	
PM monitors	11/13/2013	11/13/2013	
1 141 IIIOIIIIOIS	1		

Mira Loma (Van Buren) Site Photos



Looking North from the probe.



Looking East from the probe.

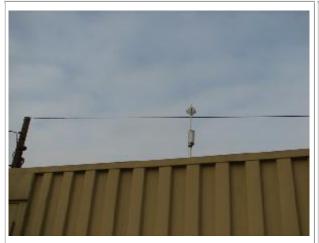


Looking South from the probe.



Looking West from the probe.

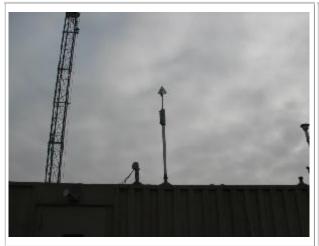
Mira Loma (Van Buren) Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.

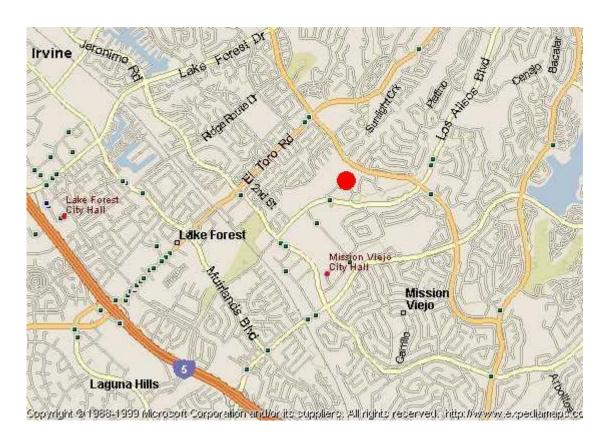


Looking at the probe from the South.



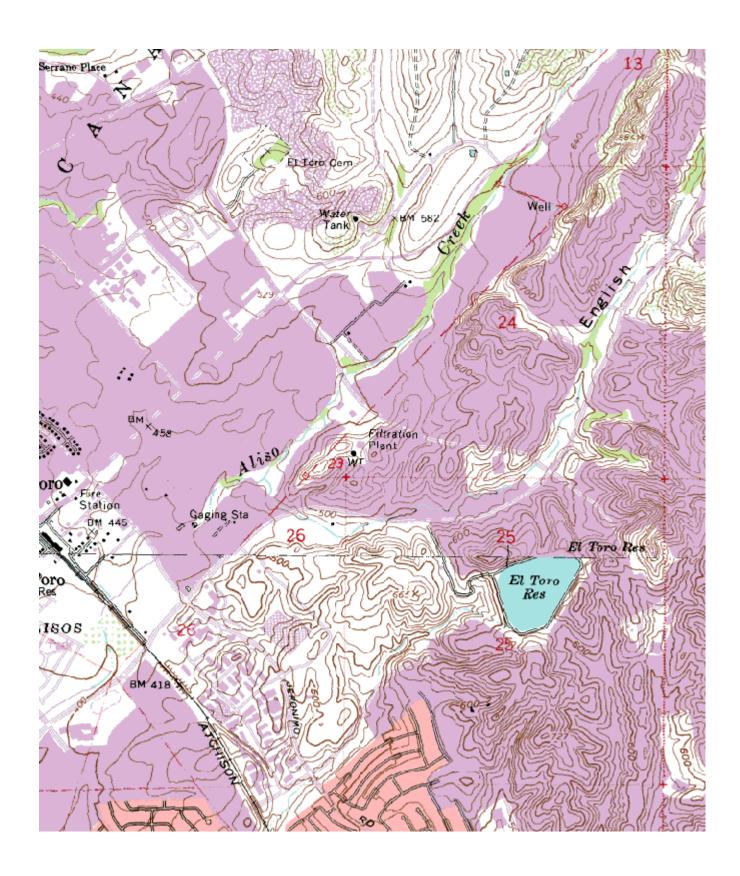
Looking at the probe from the West.

Quality Assurance Site Survey Report for Mission Viejo



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060592022	30002	06/1999	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
26081 Via Pera Mission Viejo, CA 92691	Orange	South Coast	33° 37' 48"N	117° 40' 32"W	168



Detailed Site Information

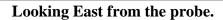
Local site name	e name		Mission Viejo					
AQS ID		0605920						
GPS coordinates (decimal degrees)		Latitude: 33° 37' 48" Longitude: 117° 40' 32"						
Street Address			26081 Via Pera, Mission Viejo, CA 92691					
County		Orange	, , , , , , , , , , , , , , , , , , , ,					
Distance to roadways (1	meters)	138 - 17:	5					
Traffic count (AADT, y		< 2,000 /						
Groundcover	,	Asphalt						
(e.g. asphalt, dirt, sand)		1						
Representative statistica		31080-L	os Angeles-Long Beach-	Anaheim MSA				
(i.e. MSA, CBSA, other								
Pollutant, POC	Carbon Mon	oxide, 1	Ozone, 1	PM10, 1	24 Hour PM2.5, 1			
Parameter code	42101		44201	See Table 26	See Table 26			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)								
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	API/Teledyne 400E	Sierra Andersen 1200	Andersen RAAS			
manufacturer and				SSI	PM2.5			
model								
Method code	106		087	063, 102	780, 120			
FRM/FEM/ARM/	FRM		FEM	FRM	FRM			
other								
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	SCAQMD	SCAQMD			
(i.e.weigh lab, toxics								
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood			
micro, neighborhood)								
Monitoring start date (MM/DD/YYYY)	06/15/1999		06/15/1999	06/15/1999	06/15/1999			
Current sampling	1:1		1:1	1:6	1:3			
frequency (e.g.1:3,								
continuous)								
Calculated sampling	N/A		N/A	SCAQMD	SCAQMD			
frequency								
(e.g. 1:3/1:1)								
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
Probe height (meters)	6.7		6.7	3.4	3.8			
Distance from	2.4		2.4	2.4	2.9			
supporting structure								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof								
(meters)								
Distance from	N/A		N/A	4.8	4.8			
obstructions not on	ot on							
roof (meters)								

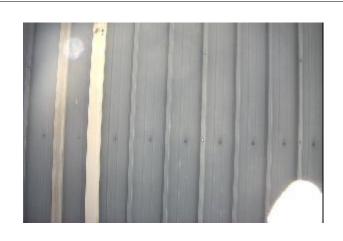
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	270°	270°
(degrees)				
Probe material for	Teflon	Teflon	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	11.1	11.4	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	Yes
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	Monthly	Monthly
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	N/A	N/A
point QC check for				
gaseous instruments				
Last Annual	03/05/2015	03/05/2015	N/A	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	05/25/2015,	05/25/2015,
flow rate audits for			11/07/2015	11/07/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Mission Viejo Site Photos



Looking North 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.

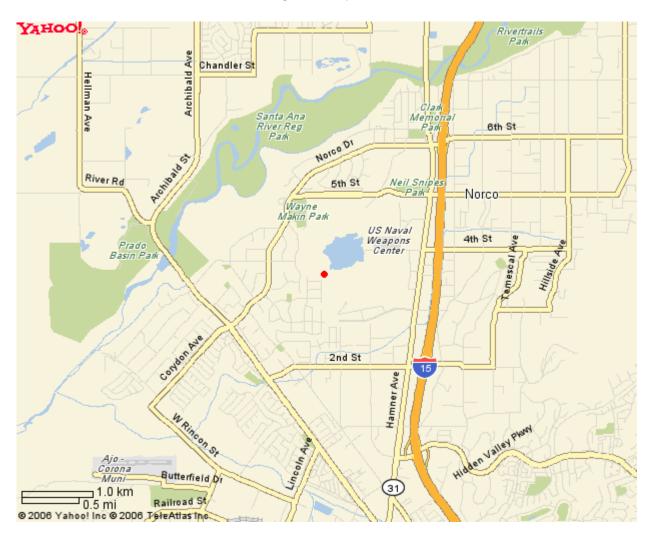


Looking at the probe from the South.



Looking at the probe from the West.

Quality Assurance Site Survey Report for Norco



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650003	33155	12/1980	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
USNSWC Corona Division Norco, CA 92860	Riverside	South Coast	33° 55' 17"N	117° 34' 21"W	197

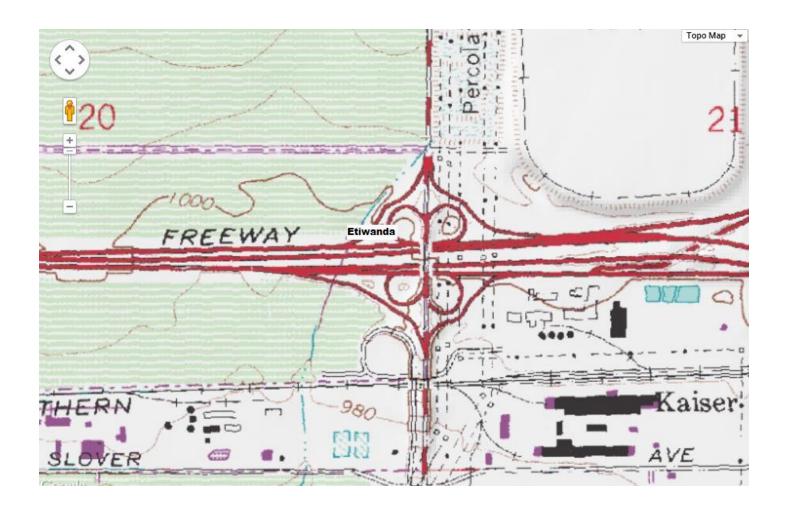
Local site name		Norco					
AQS ID		06065003					
GPS coordinates (decin	GPS coordinates (decimal degrees)		Latitude: 33° 55' 17" Longitude: 117° 34' 21"				
Street Address			C Corona Division, Nor				
County		Riverside	<u>}</u>				
Distance to roadways (r	meters)	25					
Traffic count (AADT, y	/ear)	< 500 / 20	012				
Groundcover	-	Weeds					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	40140-Ri	verside-San Bernardino	o-Ontario, CA MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	PM10, 1						
Parameter code	See Table 26	5					
Basic monitoring	NAAQS						
objective(s)							
Site type(s)	Population E	Exposure					
Monitor (type)	SLAMS						
Instrument	Sierra Ander	rsen 1200					
manufacturer and	SSI						
model							
Method code	063, 102						
FRM/FEM/ARM/	FRM						
other							
Collecting Agency	SCAQMD						
Analytical Lab	SCAQMD						
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD						
Spatial scale (e.g.	Neighborhoo	od					
micro, neighborhood)							
Monitoring start date	12/1980						
(MM/DD/YYYY)							
Current sampling	1:6						
frequency (e.g.1:3,							
continuous)	1.6						
Calculated sampling	1:6						
frequency (e.g. 1:3/1:1)							
Sampling season	01/01-12/31						
(MM/DD-MM/DD)	01/01-12/31						
Probe height (meters)	2.6						
Distance from	1						
supporting structure	1						
(meters)							
Distance from	N/A						
obstructions on roof							
(meters)							
Distance from	N/A						
obstructions not on							
roof (meters)							
			•	•			

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Distance from trees	N/A		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	N/A		
collocated monitors			
(meters)			
Unrestricted airflow	360°		
(degrees)			
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18	110		
months? (Y/N)			
Is it suitable for	N/A		
comparison against	14/A		
the annual PM2.5?			
(Y/N)			
Frequency of flow	Monthly		
rate verification for	Monuny		
manual PM samplers			
Frequency of flow	N/A		
rate verification for	IN/A		
automated PM			
analyzers	N/A		
Frequency of one-	IN/A		
point QC check for			
gaseous instruments	NI/A		
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters (MM/DD/YYYY)			
Last two semi-annual	06/04/2015,		
flow rate audits for	Out of service due to		
PM monitors	power issues.		
(MM/DD/YYYY,			
MM/DD/YYYY)			

South Coast AQMD Site Survey Report for Ontario Etiwanda-Near Road Last updated: May 15, 2016



Site Address		County		A	ir Basin	Latitude	Longitude	Elevation
NW Corner Intersta Etiwanda Ontario,		San Bernardin		So	uth Coast	34° 04' 04''N	117° 31' 33"W	300m
AIRS Number	ARB Numb	per Site Start		Date	Reporting Agency and Agency Code		de	
060710026	36035	07/14		1	South Coast AQMD (061)			



Local site name	Ontario F		Etiwanda – Near Road				
AQS ID	06071002						
GPS coordinates (decin	linates (decimal degrees) Latitude:		ide: 34° 04' 04"N Longitude: 117° 31' 33"W				
Street Address	,		RNER INTERSTATE 10		o, CA		
County		San Bern	ardino				
Distance to roadways (1	meters)	49.0 mete	ers				
Traffic count (AADT, y		646804 (F	FEAADT)				
Groundcover		Gravel, s	•				
(e.g. asphalt, dirt, sand)	1	,					
Representative statistica		40140-Ri	verside-San Bernardino-	Ontario, MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Nitrogen Dio	oxide, 5	Carbon Monoxide, 1				
Parameter code	42603	· · · · · · · · · · · · · · · · · · ·	42101				
Basic monitoring	NAAQS		NAAQS				
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure				
Monitor (type)	SLAMS\Nea		SLAMS\Near Road				
Instrument	Thermo 42i		Thermo 48i-TLE				
manufacturer and							
model							
Method code	074		554				
FRM/FEM/ARM/	FRM		FRM				
other							
Collecting Agency	SCAQMD		SCAQMD				
Analytical Lab	N/A		N/A				
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD				
Spatial scale (e.g.	Microscale		Microscale				
micro, neighborhood)							
Monitoring start date (MM/DD/YYYY)	07/2014		12/2014				
Current sampling	1:1		1:1				
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A				
frequency							
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31				
(MM/DD-MM/DD)							
Probe height (meters)	4.2		4.5				
Distance from	2.0		1.9				
supporting structure							
(meters)							
Distance from	N/A		N/A				
obstructions on roof							
(meters)							
Distance from	N/A		N/A				
obstructions not on							
roof (meters)							

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Distance from trees (meters)	N/A	N/A	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between collocated monitors (meters)	N/A	N/A	
Unrestricted airflow (degrees)	360°	360°	
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	
Residence time for reactive gases (seconds)	6.8	6.8	
Will there be changes within the next 18 months? (Y/N)	No	No	
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	
Frequency of flow rate verification for manual PM samplers	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/15/2015	11/15/2015	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	

Ontario Etiwanda-Near Road Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Ontario Etiwanda-Near Road Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



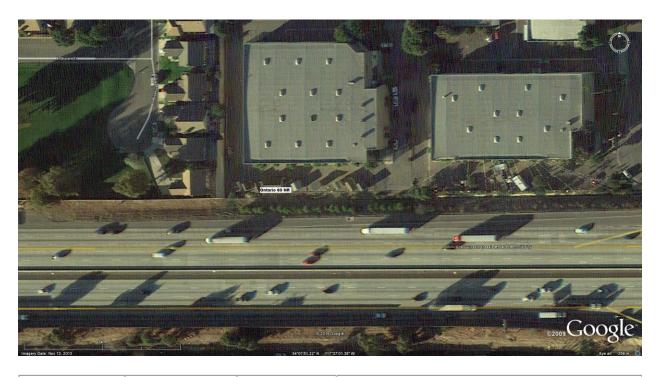
Looking at the probe from the South.



Looking at the probe from the West.

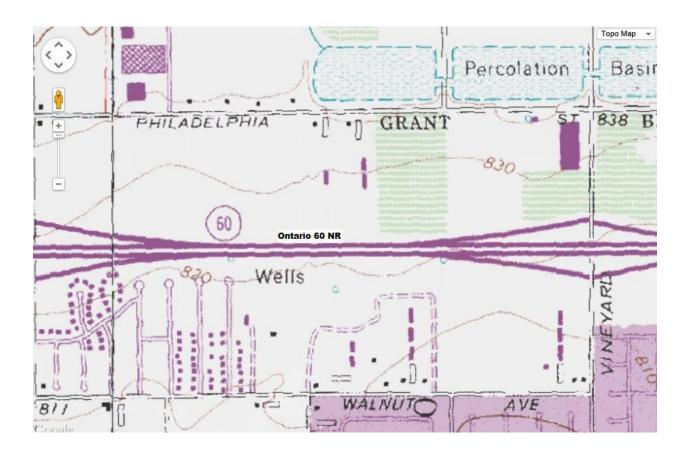
Quality Assurance Site Survey Report for Ontario-Route 60 Near Road

Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060710027	36036	1/1/2015	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
2330 S. Castle Harbour	San Bernardino	South Coast	34° 01' 51" N	117° 37' 02" N	258m



Local site name		Ontario-Route 60 Near Road					
AQS ID			060710027				
			Latitude: 34° 01' 51" N Longitude: 117° 37' 02" N				
Street Address	aur degrees)		2330 S. Castle Harbour Ontario, CA 91761				
County		San Bern		,,,,,,,,			
Distance to roadways (r	meters)	10 m	ar Gillo				
Traffic count (AADT, y		215,000	/ 2012				
Groundcover	(011)	Gravel/G					
(e.g. asphalt, dirt, sand)		014,01,0	1400				
Representative statistica		40140-R	iverside-San Bernardino-	Ontario, CA MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Nitrogen Die	oxide, 1	24 Hour PM2.5, 1	Continuous PM2.5, 3			
Parameter code	42602	,	See Table 26	88101			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS	SLAMS			
Instrument	Thermo 42i		Thermo 2025i	Thermo 5014			
manufacturer and							
model							
Method code	074		118,145	183			
FRM/FEM/ARM/	FRM		FRM	FEM			
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		SCAQMD	N/A			
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Micro		Micro	Micro			
micro, neighborhood)							
Monitoring start date	01/2015		1/2015	1/2015			
(MM/DD/YYYY)							
Current sampling	1:1		1:1	1:1			
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		1:1	1:1			
frequency							
(e.g. 1:3/1:1)	04/04/12/5		04/04/49/51	04/04/49/51			
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)	1.5		1.5	1.5			
Probe height (meters)	4.5		4.5	4.5			
Distance from	2.0		2.0	2.0			
supporting structure							
(meters)	27/4		NT/A	NI/A			
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters) Distance from	N/A		N/A	N/A			
obstructions not on	1N/A		1V/A	IN/A			
roof (meters)							
1001 (HICKETS)							
	1		1	1	I		

Di i	L NY/A	L XY/A	Tax/A
Distance from trees	N/A	N/A	N/A
(meters)			
Distance to furnace or	N/A	N/A	N/A
incinerator flue			
(meters)			
Distance between	N/A	N/A	N/A
collocated monitors			
(meters)			
Unrestricted airflow	360°	360°	360°
(degrees)			
Probe material for	Teflon	NA	NA
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	6.8	NA	NA
reactive gases		1,11	
(seconds)			
Will there be changes	No	No	No
within the next 18	110	110	110
months? (Y/N)			
Is it suitable for	N/A	Yes	Yes
comparison against	IN/A	Tes	1 es
the annual PM2.5?			
(Y/N)	N/A	N. G. a. 41. 1	N/A
Frequency of flow	N/A	Monthly	N/A
rate verification for			
manual PM samplers	27/4	NY/A	N 11
Frequency of flow	N/A	N/A	Monthly
rate verification for			
automated PM			
analyzers			
Frequency of one-	Nightly	N/A	N/A
point QC check for			
gaseous instruments			
Last Annual	10/01/2015	N/A	N/A
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	N/A	Unaudited first half,	Unaudited
flow rate audits for		11/19/2015	
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			
	1	i	<u> </u>

Ontario-Route 60 Near Road Site Photos





Looking North from the probe.

Looking East from the probe.





Looking South from the probe.

Looking West from the probe.

Ontario-Route 60 Near Road Site Photos (Cont.)





Looking at the probe from the North.

Looking at the probe from the East.



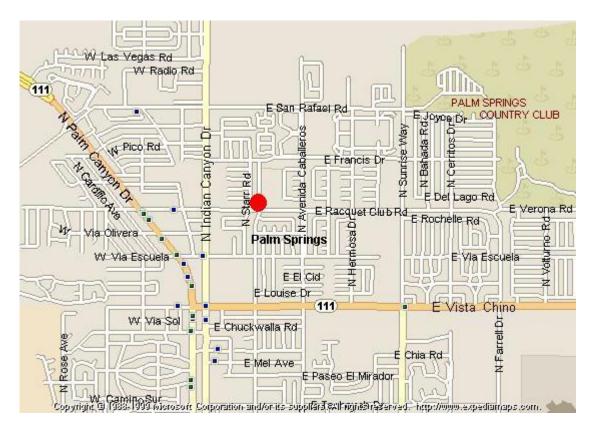




Looking at the probe from the West.

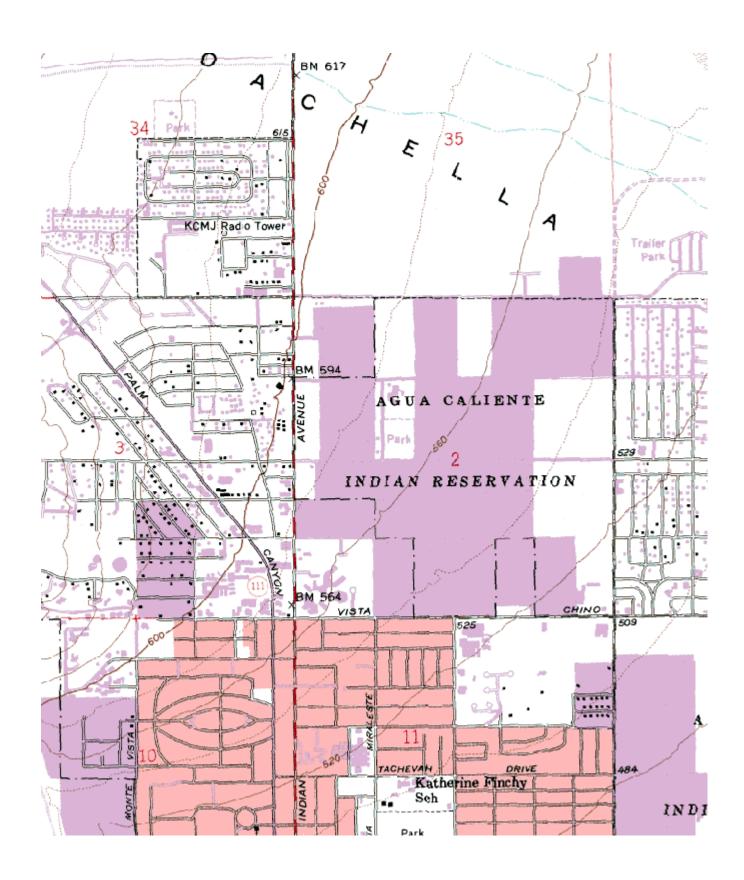
Quality Assurance Site Survey Report for Palm Springs-Fire Station

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060655001	33137	04/1971	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"N	116° 32' 27"W	172 m



Local site name	Palm Sı		alm Springs-Fire Station						
AQS ID	0606550		1 0						
GPS coordinates (decin	imal degrees) Latitude		33° 51' 09" Longitude:	116° 32' 27"					
Street Address			590 East Racquet Club Ave., Palm Springs, CA 92262						
County		Riverside	2	1 0					
Distance to roadways (1	meters)	13 - 17							
Traffic count (AADT, y		5,000 / 2	012						
Groundcover	,	Concrete							
(e.g. asphalt, dirt, sand)									
Representative statistica		40140-R	iverside-San Bernardino-	Ontario, CA MSA					
(i.e. MSA, CBSA, other				,					
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1	PM10, 2				
Parameter code	42101	,	42602	44201	See Table 26				
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS				
objective(s)									
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure				
Monitor (type)	SLAMS	•	SLAMS	SLAMS	SLAMS				
Instrument	Horiba APM	IA 360	Thermo 42i	API/Teledyne 400E	Sierra Andersen 1200				
manufacturer and					SSI				
model									
Method code	106		074	087	063,102				
FRM/FEM/ARM/	FRM		FRM	FEM	FRM				
other									
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD				
Analytical Lab	N/A		N/A	N/A	SCAQMD				
(i.e.weigh lab, toxics									
lab, other)									
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD				
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood				
micro, neighborhood)									
Monitoring start date	04/1971		04/1971	04/1971	01/1985				
(MM/DD/YYYY)									
Current sampling	1:1		1:1	1:1	1:6				
frequency (e.g.1:3,									
continuous)									
Calculated sampling	N/A		N/A	N/A	1:6				
frequency									
(e.g. 1:3/1:1)									
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31				
(MM/DD-MM/DD)									
Probe height (meters)	5.0		5.0	5.0	2.46				
Distance from	2.0		2.0	2.0	1.5				
supporting structure									
(meters)	1		27/4	27/4	>Y/A				
Distance from	N/A		N/A	N/A	N/A				
obstructions on roof									
(meters)	NT/A		NT/A	NT/A	NT/A				
Distance from	N/A		N/A	N/A	N/A				
obstructions not on									
roof (meters)	22		22	22	19				
Distance from trees	22		22	\(\alpha \alpha \)	17				
(meters)	1			1	1				

Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	2.1
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	8.3	9.5	9.3	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	12/03/2015	12/03/2015	12/03/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	05/14/2015, 10/23/2015

Pollutant, POC	Continuous PM10, 3	24 Hour PM2.5, 1	
Parameter code	81102	See Table 26	
Basic monitoring objective(s)	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	
Monitor (type)	SLAMS	SLAMS	

Total	T1	A 1 DAAC	
Instrument	Thermo Electron	Andersen RAAS	
manufacturer and	1400A TEOM	PM2.5	
model		- 00 150	
Method code	079	780, 120	
FRM/FEM/ARM/	FEM	FRM	
other			
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	N/A	SCAQMD	
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)			
Monitoring start date	06/02/2009	12/26/1999	
(MM/DD/YYYY)			
Current sampling	1:1	1:3	
frequency (e.g.1:3,			
continuous)			
Calculated sampling	N/A	1:3	
frequency			
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)			
Probe height (meters)	4.7	2.9	
Distance from	1.7	1.9	
supporting structure			
(meters)			
Distance from	N/A	N/A	
obstructions on roof			
(meters)			
Distance from	N/A	N/A	
obstructions not on			
roof (meters)			
Distance from trees	19	19	
(meters)			
Distance to furnace or	N/A	N/A	
incinerator flue			
(meters)			
Distance between	2.1	N/A	
collocated monitors			
(meters)			
Unrestricted airflow	360°	360°	
(degrees)			
Probe material for	N/A	N/A	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
Will there be changes	No	No	
within the next 18			
months? (Y/N)			

Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	Yes		
Frequency of flow rate verification for manual PM samplers	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers	Monthly	N/A		
Frequency of one- point QC check for gaseous instruments	N/A	N/A		
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	06/21/2015, 12/03/2015	05/14/2015, 11/24/2015		

Palm Springs-Fire Station Site Photos



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.



Looking North from the probe.

Palm Springs-Fire Station Site Photos (Cont.)



Looking at the probe from the East.



Looking at the probe from the South.



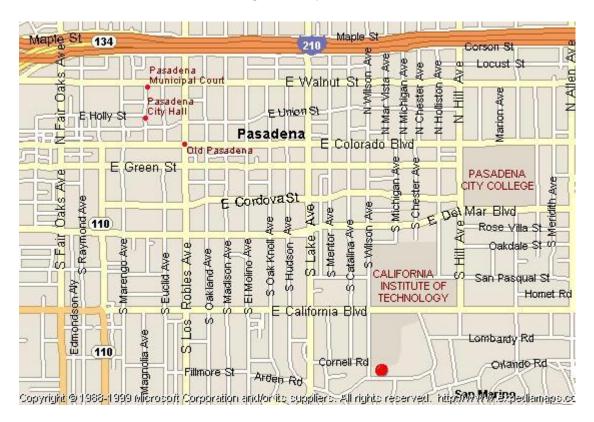
Looking at the probe from the West.



Looking at the probe from the North.

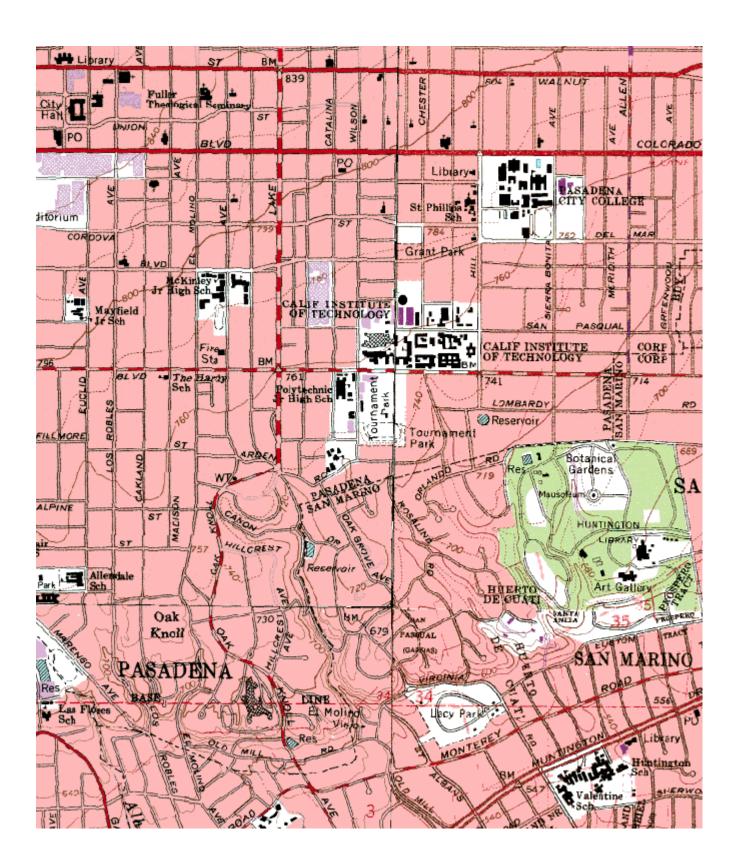
Quality Assurance Site Survey Report for Pasadena

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060372005	70088	04/1982	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"N	118° 07' 37"W	226



Local site name		Pasadena				
AQS ID		0603720				
GPS coordinates (decin	nal degrees)	Latitude: 34° 07' 57" Longitude: 118° 07' 37"				
Street Address			ilson Ave, Pasadena, CA			
County		Los Ang	eles			
Distance to roadways (1	meters)	66				
Traffic count (AADT, y	year)	< 5,000 /	2012			
Groundcover		Grass				
(e.g. asphalt, dirt, sand)	ı					
Representative statistica	al area name	31080-L	os Angeles-Long Beach-	Anaheim, MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	24 Hour PM2.5, 1	
Parameter code	42101		42602	44201	See Table 26	
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS	
objective(s)						
Site type(s)	Population E	Exposure	Highest	Population Exposure	Population Exposure	
			Concentration			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS	
Instrument	Horiba APM	IA 370	Thermo 42i	Teledyne 400E	Andersen RAAS	
manufacturer and					PM2.5	
model						
Method code	158		074	087	780, 120	
FRM/FEM/ARM/	FRM		FRM	FEM	FRM	
other	221015		0.01.07.02	0.01.01.02	22 + 0.1 m	
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD	
Analytical Lab	N/A		N/A	N/A	SCAQMD	
(i.e.weigh lab, toxics						
lab, other)	CCAOMD		CCAOMD	CCAOMD	CCAOMD	
Reporting Agency	SCAQMD Middle		SCAQMD	SCAQMD Naighborhood	SCAQMD	
Spatial scale (e.g. micro, neighborhood)	Middle		Middle	Neighborhood	Neighborhood	
Monitoring start date	04/1982		04/1982	04/1982	04/1982	
(MM/DD/YYYY)	04/1962		04/1962	04/1962	04/1962	
Current sampling	1:1		1:1	1:1	1:3	
frequency (e.g.1:3,	1.1		1.1	1.1	1.5	
continuous)						
Calculated sampling	N/A		N/A	N/A	1:3	
frequency			V	,, <u></u>		
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)						
Probe height (meters)	5.0		5.0	5.0	2.8	
Distance from	2.1		2.1	2.1	1.9	
supporting structure						
(meters)						
Distance from	N/A		N/A	N/A	N/A	
obstructions on roof						
(meters)				1.2.72.1.1		
Distance from	13 (Height 1	5)	13 (Height 15)	13 (Height 15)	13 (Height 15)	
obstructions not on						
roof (meters)						

Distance from trees	6 (Height -1)	6 (Height -1)	6 (Height -1)	6 (Height -1)
(meters) Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
(meters) Distance between collocated monitors	N/A	N/A	N/A	N/A
(meters) Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	5.2	5.7	6.1	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/13/2015	09/13/2015	09/13/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	04/17/2015, 11/06/2015

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.



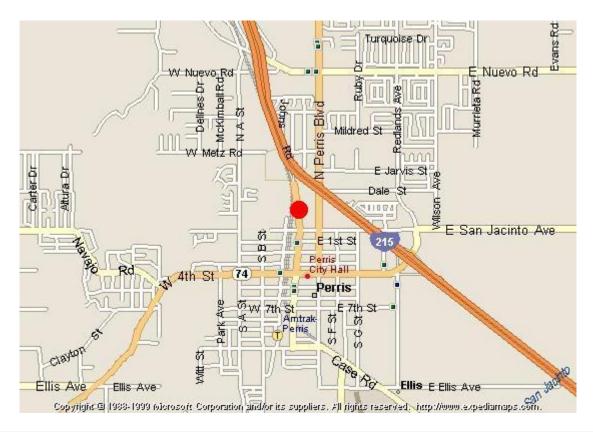
Looking at the probe from the South.



Looking at the probe from the West.

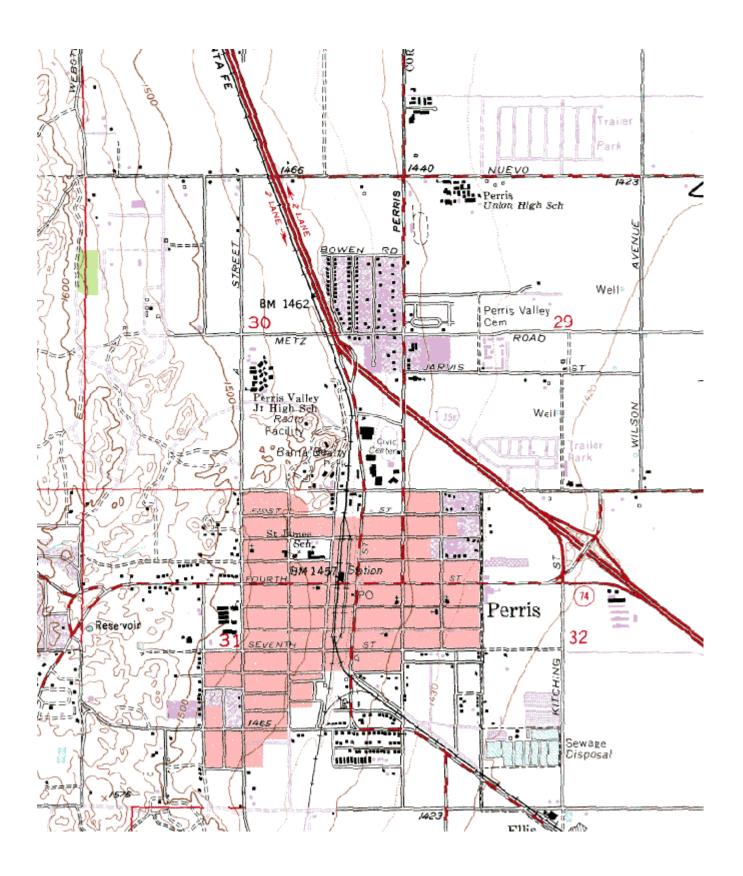
Quality Assurance Site Survey Report for Perris

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060656001	33149	05/1973	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"N	117° 13' 40"W	442 m



Local site name	Local site name Per		Perris			
AQS ID 060656		06065600				
GPS coordinates (decimal degrees) Latitude:		le: 33° 47' 20" Longitude: 117° 13' 40"				
Street Address	Street Address 237 ½ N J		D St, Perris, CA 92570			
County		Riverside	;			
Distance to roadways (r	neters)	74; 173m	l			
Traffic count (AADT, y	vear)	39,500 / 2	2012; 215/D St., 99,000 /	2011		
Groundcover		Asphalt				
(e.g. asphalt, dirt, sand)						
Representative statistica		40140-Ri	verside-San Bernardino-G	Ontario, CA MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Ozone, 1		PM10, 1			
Parameter code	44201		See Table 26			
Basic monitoring	NAAQS		NAAQS			
objective(s)						
Site type(s)	Population E	Exposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS			
Instrument	Thermo 49i		Sierra Andersen 1200			
manufacturer and			SSI			
model						
Method code	047		063, 102			
FRM/FEM/ARM/	FEM		FRM			
other						
Collecting Agency	SCAQMD		SCAQMD			
Analytical Lab	N/A		SCAQMD			
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD		SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood			
micro, neighborhood)						
Monitoring start date	05/01/1973		05/01/1973			
(MM/DD/YYYY)						
Current sampling	1:1		1:6			
frequency (e.g.1:3,						
Coloulated sampling	NI/A		1.6			
Calculated sampling	N/A		1:6			
frequency (e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31			
(MM/DD-MM/DD)	01/01-12/31		01/01-12/31			
Probe height (meters)	3.5		3.5			
Distance from	1.8		1.6			
supporting structure	1.0		1.0			
(meters)						
Distance from	N/A		N/A			
obstructions on roof						
(meters)						
Distance from	N/A		N/A			
obstructions not on						
roof (meters)						

D:	NT/A	NT/A		1
Distance from trees	N/A	N/A		
(meters)				
Distance to furnace or	N/A	N/A		
incinerator flue				
(meters)				
Distance between	N/A	N/A		
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°		
(degrees)				
Probe material for	Teflon	N/A		
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	6.9	N/A		
reactive gases				
(seconds)				
Will there be changes	No	No		
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A		
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	Monthly		
rate verification for		, and the second		
manual PM samplers				
Frequency of flow	N/A	N/A		
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	N/A		
point QC check for				
gaseous instruments				
Last Annual	09/08/2015	N/A		
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	06/04/2015,		
flow rate audits for		11/13/2015		
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
	1	l .	1	1

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.



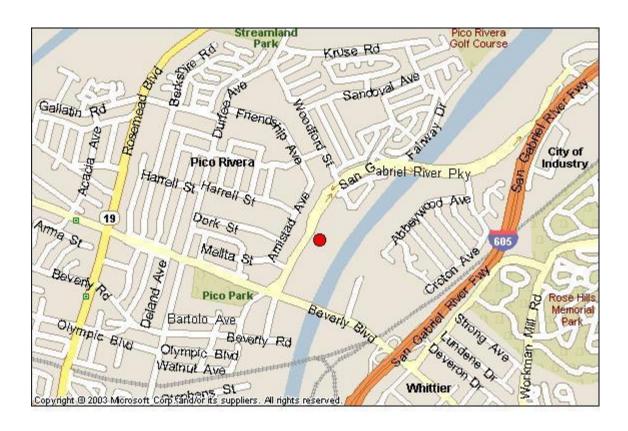
Looking at the probe from the South.



Looking at the probe from the West.

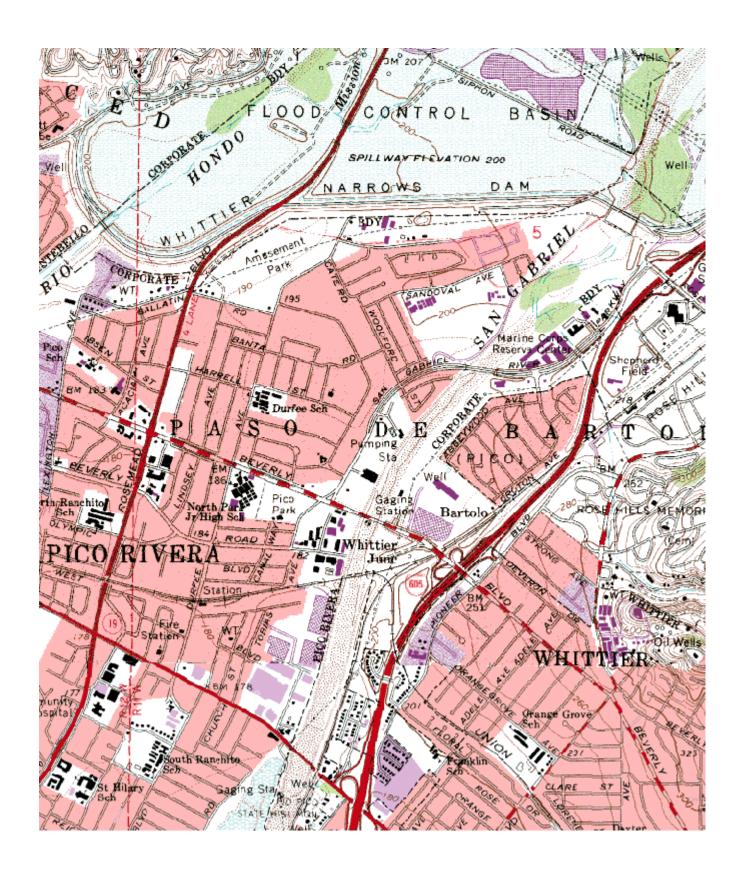
Quality Assurance Site Survey Report for Pico Rivera #2

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code		
060371602	70185	09/2005	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"N	118° 04' 07"W	58 m



Local site name	Pico Rive		ico Rivera #2				
AQS ID		0603716	60371602				
GPS coordinates (decin	nal degrees)	Latitude:	atitude: 34° 0' 37" Longitude: 118° 04' 07"				
Street Address		4144 Sar	14 San Gabriel River Pkwy, Pico Rivera, CA				
County		Los Ang	eles				
Distance to roadways (1	meters)	35 – 41;	765				
Traffic count (AADT, y	/ear)	20,000 /	2012; 605/Beverly, 255,	000 2011			
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistical	al area name	31080-L	os Angeles, Long Beach-	-Anaheim MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Lead, 1		
Parameter code	42101		42602	44201	14129		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure	Highest	Highest	Population Exposure		
			Concentration	Concentration			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	Thermo 49i	GMW TSP 1200		
manufacturer and							
model							
Method code	158		074	087	110		
FRM/FEM/ARM/	FRM		FRM	FEM	FRM		
other			001010	0.01.07.02	991015		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	SCAQMD		
(i.e.weigh lab, toxics							
lab, other)	COLOMB		CCAOMD	CCAOMD	SCAOMD		
Reporting Agency	SCAQMD	1	SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	oa	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood) Monitoring start date	9/2005		9/2005	09/2005	09/2005		
(MM/DD/YYYY)	9/2003		9/2003	09/2003	09/2003		
Current sampling	1:1		1:1	1:1	1:6		
frequency (e.g.1:3,	1.1		1.1	1.1	1.0		
continuous)							
Calculated sampling	N/A		N/A	N/A			
frequency	- "			- "			
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)							
Probe height (meters)	4.5		4.5	4.5	2.11		
Distance from	1.8		1.8	1.8	1.12		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Di c	D.T./ A	27/4	NT/ 4	37/4
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	9	9	9	4
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	Teflon	Teflon	Teflon	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	5.7	7.0	6.4	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	Monthly
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	N/A
point QC check for				
gaseous instruments				
Last Annual	08/25/2015	08/25/2015	08/25/2015	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	06/03/2015,
flow rate audits for				11/18/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
	I			

Pollutant, POC	24 Hour PM2.5, 1	VOCs 24 hour, 2	VOCs 3 hour, 1	Carbonyls, 2
Parameter code	See Table 26	See Table 26	See Table 26	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS
objective(s)				

Site type(s)	Population Exposure	Highest	Highest	Highest
		Concentration	Concentration	Concentration
Monitor (type)	SLAMS	PAMS	PAMS	PAMS
Instrument	Andersen RAAS	Xontech 910A, A	Xontech 910A,	ATEC 8000
manufacturer and	PM2.5	Sampler	Sampler	
model				
Method code	780, 120	See Table 26	See Table 26	See Table 26
FRM/FEM/ARM/	FRM	Other	Other	Other
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	SCAQMD
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date	09/2005	09/2005	09/2005	09/2005
(MM/DD/YYYY)				
Current sampling	1:3	1:6	1:1	1:6 or intensive
frequency (e.g.1:3,				PAMS
continuous)				
Calculated sampling	1:3	No CFR mandated	No CFR mandated	No CFR mandated
frequency		sampling schedule.	sampling schedule.	sampling schedule.
(e.g. 1:3/1:1)		T & S and S	T & T	1 8
Sampling season	01/01-12/31	01/01-12/31	07/01-09/30	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	2.84	4.5	4.5	4.5
Distance from	1.83	2	2	2
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)				
Distance to furnace or	4	N/A	N/A	N/A
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	Stainless steel	Stainless steel	Stainless steel
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	1.1	0.8	1.5
reactive gases	= =	×=		
(seconds)				
(Seconds)	1		1	1

Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	Yes	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	Monthly	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	Semi Annually	Semi Annually	Semi Annually
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	03/17/2015	03/17/2015
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/20/2015, 11/18/2015	N/A	N/A	N/A

Pico Rivera #2 Site Photos



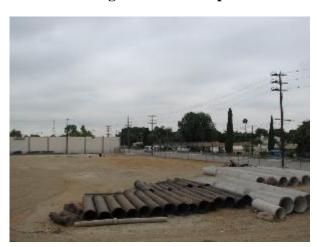
Looking North from the probe.



Looking South from the probe.



Looking East from the probe.

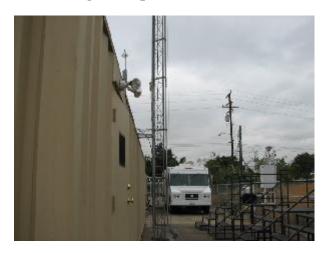


Looking West from the probe.

Pico Rivera #2 Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the South.



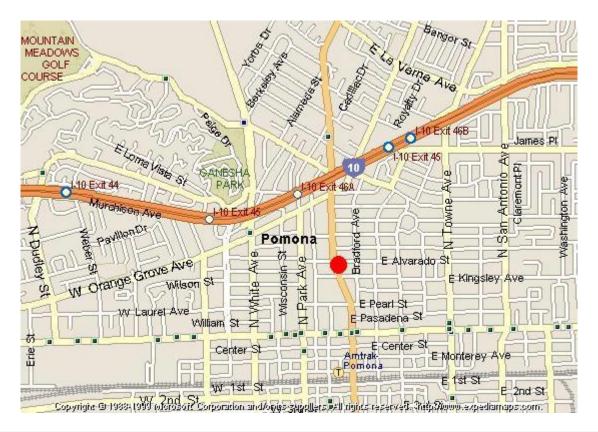
Looking at the probe from the East.



Looking at the probe from the West.

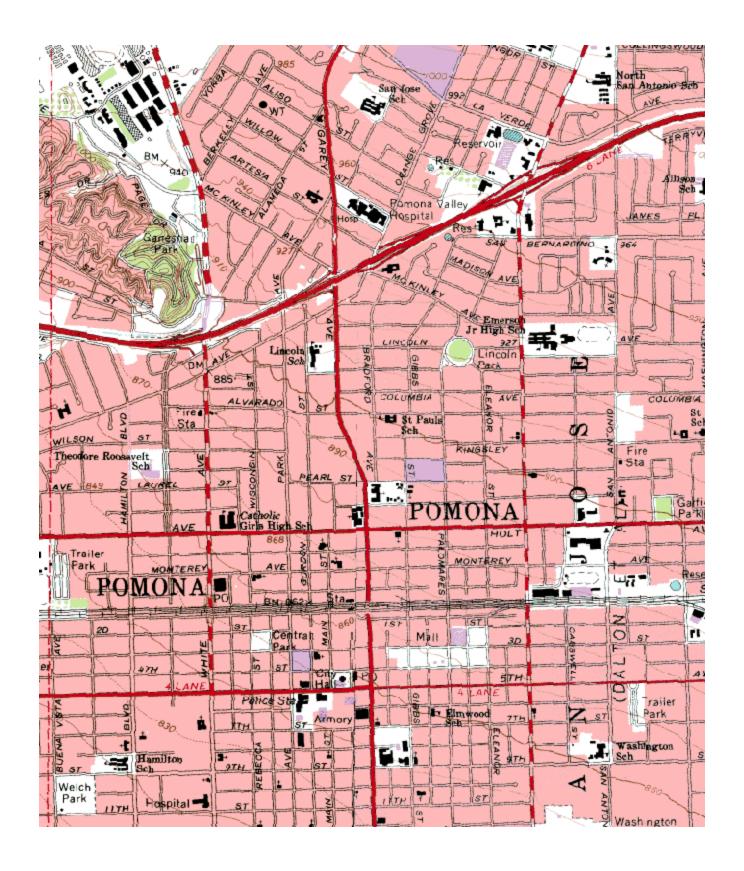
Quality Assurance Site Survey Report for Pomona

Last updated; May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371701	70075	06/1965	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' 01"N	117° 45' 05"W	279 m



Local site name		Pomona	Pomona				
AQS ID			60371701				
GPS coordinates (decin	nal degrees)		atitude: 34° 04' 01" Longitude: 117° 45' 05"				
Street Address			N. Garey Ave, Pomona, CA 91767				
County		Los Ang	•				
Distance to roadways (r	neters)	7					
Traffic count (AADT, y		25,000 /	2012				
Groundcover	,	Asphalt					
(e.g. asphalt, dirt, sand)		1					
Representative statistica		31080-L	os Angeles-Long Beach-A	Anaheim MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1			
Parameter code	42101		42602	44201			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Highest			
				Concentration			
Monitor (type)	SLAMS		SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	API/Teledyne 200E	API/Teledyne 400E			
manufacturer and							
model							
Method code	106		099	087			
FRM/FEM/ARM/	FRM		FRM	FEM			
other				221215			
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A			
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Micro		Middle	Neighborhood			
micro, neighborhood)	0.5/4.0.5		0.5/4.0.5%	0.5/4.0.5%			
Monitoring start date	06/1965		06/1965	06/1965			
(MM/DD/YYYY) Current sampling	1.1		1:1	1:1			
frequency (e.g.1:3,	1:1		1:1	1:1			
continuous)							
Calculated sampling	N/A		N/A	N/A	+		
frequency	1 1/2 1		11/11	11/11			
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	+		
(MM/DD-MM/DD)			·				
Probe height (meters)	7.0		8.2	7.4			
Distance from	2.4		2.4	2.4			
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions not on							
roof (meters)							

NT/A	NT/A	NT/A	
N/A	N/A	N/A	
N/A	N/A	N/A	
N/A	N/A	N/A	
360°	360°	360°	
Teflon	Teflon	Teflon	
6.8	7.9	7.2	
0.0	7.5	7.2	
No	No	No	
140	140	140	
NI/A	N/A	NI/A	
IN/A	N/A	IN/A	
NT/A	NT/A	NT/A	
N/A	N/A	IN/A	
37/4	37/4	NY/A	
N/A	N/A	N/A	
Nightly	Nightly	Nightly	
02/27/2015	02/27/2015	02/27/2015	
N/A	N/A	N/A	
	N/A N/A N/A 360° Teflon 6.8 No N/A N/A N/A N/A Nightly 02/27/2015	N/A N/A N/A N/A N/A N/A 360° 360° Teflon Teflon 6.8 7.9 No No N/A N/A N/A N/A N/A N/A Nightly Nightly 02/27/2015 02/27/2015	N/A N/A N/A N/A N/A N/A N/A N/A N/A 360° 360° 360° Teflon Teflon Teflon 6.8 7.9 7.2 No No No N/A N/A N/A N/A N/A N/A N/A N/A N/A Nightly Nightly Nightly 02/27/2015 02/27/2015 02/27/2015

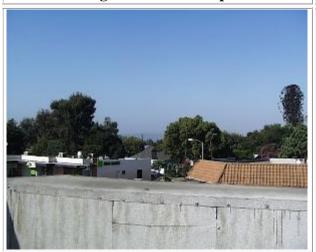
Pomona Site Photos



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.



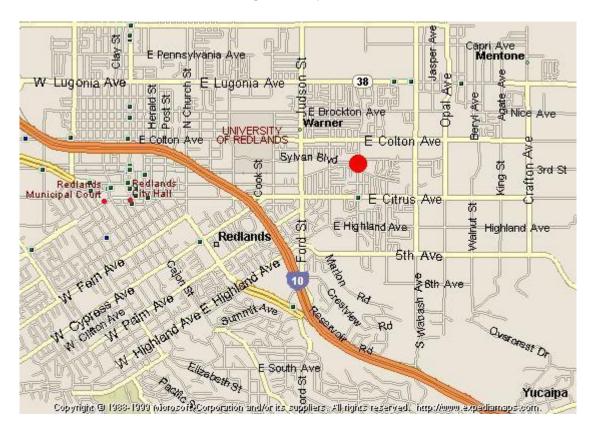
Looking at the probe from the South.



Looking at the probe from the West.

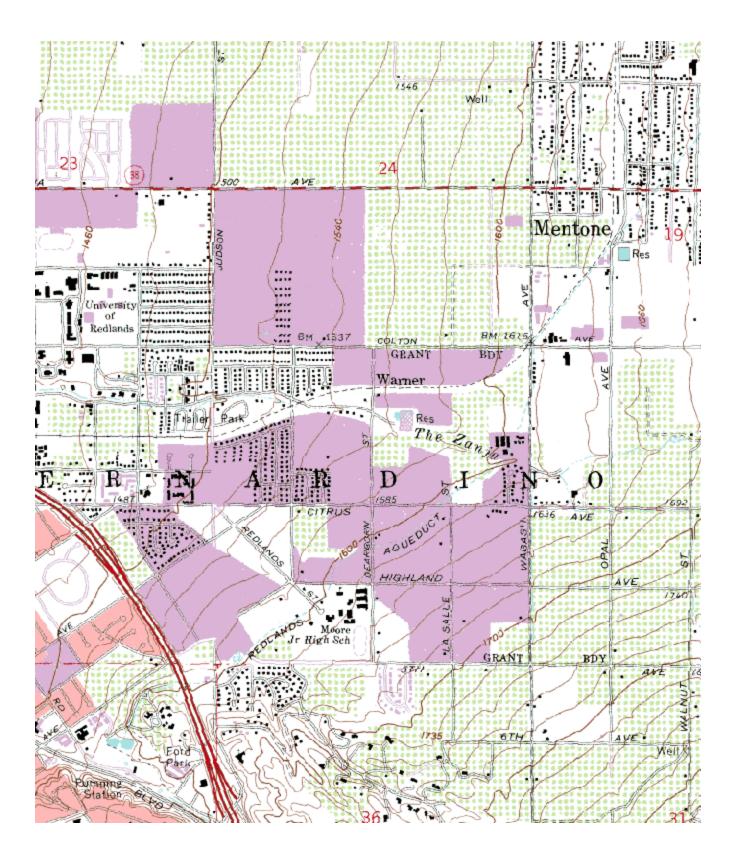
Quality Assurance Site Survey Report for Redlands

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060714003	36204	09/1986	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"N	117° 08' 50"W	475



Local site name	Redlands		S			
AQS ID	06071400		003			
GPS coordinates (decin	cimal degrees) Latitude:		de: 34° 03' 35" Longitude: 117° 08' 50"			
Street Address	500 N De		Dearborn Ave, Redlands, CA 92374			
County		San Bern	ardino			
Distance to roadways (r	meters)	26				
Traffic count (AADT, y	/ear)	10 / 2012	,			
Groundcover		Dirt				
(e.g. asphalt, dirt, sand)						
Representative statistica		40140-Ri	verside-San Bernardino-O	Ontario, CA MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Ozone, 1		PM10, 1			
Parameter code	44201		See Table 26			
Basic monitoring	NAAQS		NAAQS			
objective(s)						
Site type(s)	Population E	xposure	Population Exposure			
Monitor (type)	SLAMS		SLAMS			
Instrument	API/Teledyn	e 400E	Sierra Andersen 1200			
manufacturer and			SSI			
model						
Method code	087		063, 102			
FRM/FEM/ARM/	FEM		FRM			
other						
Collecting Agency	SCAQMD		SCAQMD			
Analytical Lab	N/A		SCAQMD			
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD		SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood			
micro, neighborhood)						
Monitoring start date	09/01/1986		09/01/1986			
(MM/DD/YYYY)	4.4					
Current sampling	1:1		1:6			
frequency (e.g.1:3,						
Continuous)	NT/A		1.6			
Calculated sampling	N/A		1:6			
frequency (e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31			
(MM/DD-MM/DD)	01/01-12/31		01/01-12/31			
Probe height (meters)	5.0		3.5			
Distance from	1.6		1.6			
supporting structure	1.0		1.0			
(meters)						
Distance from	N/A		N/A			
obstructions on roof	11/1					
(meters)						
Distance from	N/A		N/A			
obstructions not on						
roof (meters)						

	T	T · ·	 1
Distance from trees (meters)	N/A	N/A	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between collocated monitors (meters)	N/A	N/A	
Unrestricted airflow (degrees)	360°	360°	
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	
Residence time for reactive gases (seconds)	17.5	N/A	
Will there be changes within the next 18 months? (Y/N)	No	No	
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	
Frequency of flow rate verification for manual PM samplers	N/A	Monthly	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	
Frequency of one- point QC check for gaseous instruments	Nightly	N/A	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/04/2015	N/A	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	04/16/2015, 10/23/2015	

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.



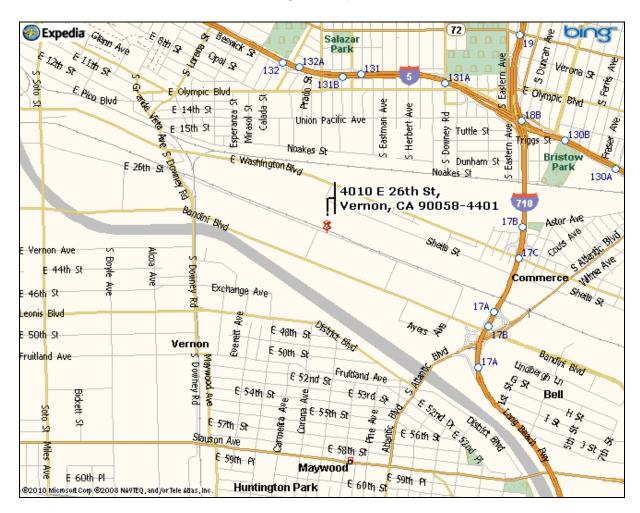
Looking at the probe from the South.



Looking at the probe from the West.

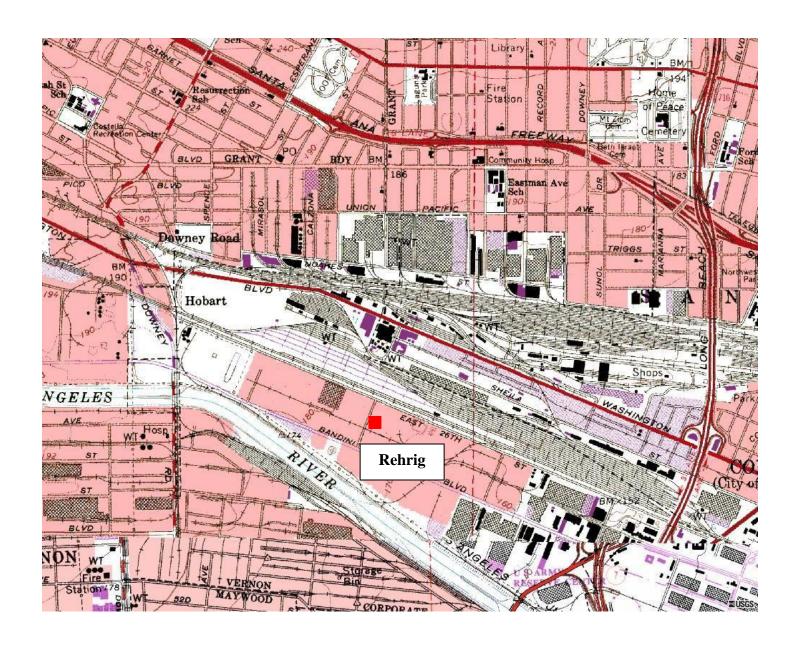
Quality Assurance Site Survey Report for Rehrig (Exide)

Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371405	70044	11/14/2007	South Coast AQMD (061)

Site Addres	s Count	y Air Basi	n Latitude	Longitude	Elevation
4010 E. 26 th Vernon, CA 90	Los Ange	eles South Co	ast 34° 00' 23"N	N 118° 11' 35"W	53 m



Local site name	Rehrig. S					
AQS ID	06037140		1405			
GPS coordinates (decin			ide: 34° 00' 23" Longitude:118° 11' 35"			
Street Address	reet Address 4010 F		010 E. 26 th St., Vernon, CA 90058			
County		Los Ange	eles			
Distance to roadways (1	meters)	205 (Ban	dini Blvd.)			
Traffic count (AADT, y	year)	20,291 / 2	2012			
Groundcover		Dirt/Aspl	halt			
(e.g. asphalt, dirt, sand)	1					
Representative statistics	al area name	31080-Lo	os Angeles-Long Beach-A	Anaheim MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Lead, 1		Lead, 2	Lead, 3		
Parameter code	14129		14129	14129		
Basic monitoring	NAAQS		NAAQS	NAAQS		
objective(s)						
Site type(s)	Source Orien	nted	Source Oriented	Source Oriented		
Monitor (type)	SLAMS		SLAMS	SLAMS/QA		
				Collocated		
Instrument	GMW 1200	TSP "A"	GMW 1200 TSP "B"	GMW 1200 TSP "C"		
manufacturer and						
model						
Method code	110		110	110		
FRM/FEM/ARM/	FRM		FRM	FRM		
other	GG L ON ID		act or to	agrove.		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD		
Analytical Lab	SCAQMD		SCAQMD	SCAQMD		
(i.e.weigh lab, toxics						
lab, other)						
Reporting Agency	SCAQMD		SCAQMD	SCAQMD		
Spatial scale (e.g.	Micro		Micro	Micro		
micro, neighborhood)			111200			
Monitoring start date	11/2007		11/2007	11/2007		
(MM/DD/YYYY)	11/ / /	`	11/ / /	1.10		
Current sampling	1:1 (rotating)	1:1 (rotating)	1:12		
frequency (e.g.1:3,						
continuous) Calculated sampling	1:6		1:6	1:12		
frequency	1.0		1.0	1.14		
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)	01/01-12/31		01/01 12/31	01/01 12/31		
Probe height (meters)	2.6		2.6	2.6		
Distance from	1		1	1		
supporting structure	_					
(meters)						
Distance from	N/A		N/A	N/A		
obstructions on roof						
(meters)						
Distance from	N/A		N/A	N/A		
obstructions not on						
roof (meters)						

D	37/4	37/4	37/4	T
Distance from trees	N/A	N/A	N/A	
(meters)				
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	2	2	2	
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	N/A	N/A	N/A	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	Monthly	Monthly	Monthly	
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	N/A	N/A	N/A	
point QC check for				
gaseous instruments				
Last Annual	N/A	N/A	N/A	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	06/03/2015,	06/03/2015,	06/03/2015,	
flow rate audits for	11/25/2015	11/25/2015	11/25/2015	
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

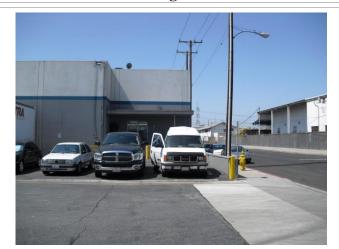
Exide - Rehrig Site Photos



Looking North



Looking East from the probe.



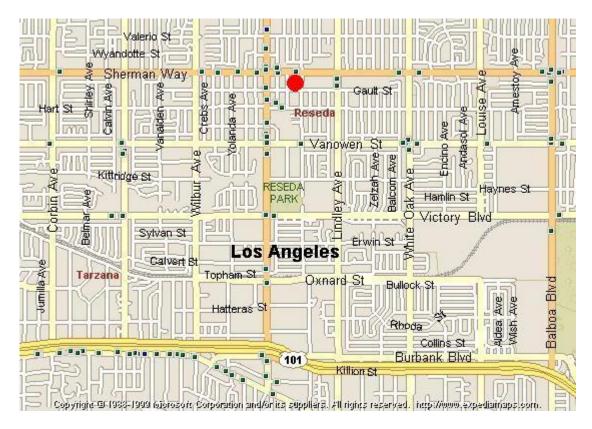
Looking South from the probe.



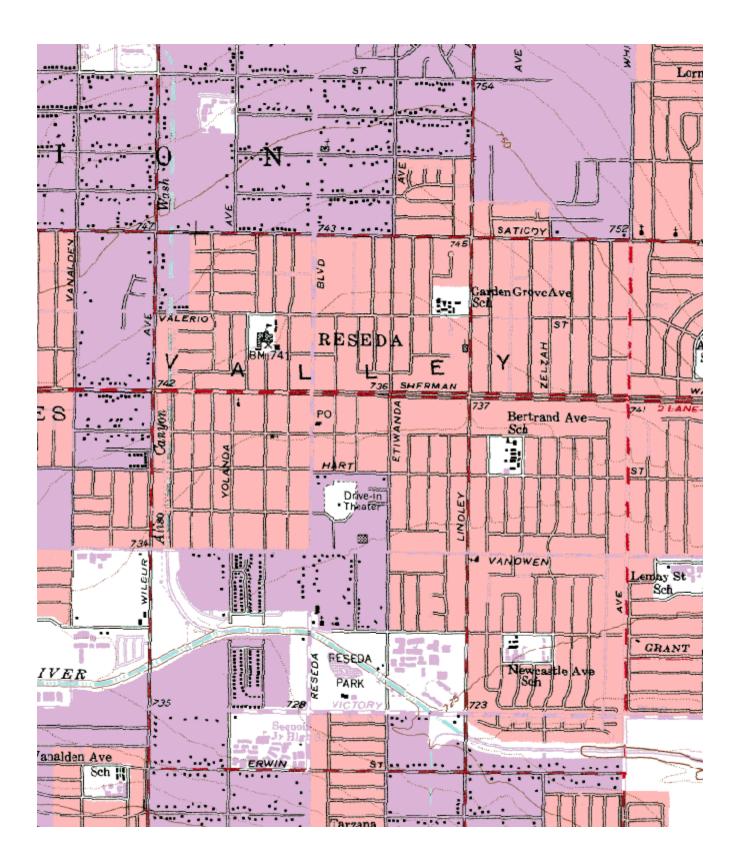
Looking West toward the probe

Quality Assurance Site Survey Report for Reseda

Last updated: May 15, 2016



AQS ID	ARB Numl	ber Site Start I		Date	Reporting Agency and Agency Code			ode
060371201	70074	03/1965		55	South Coast AQMD (061)			
Site Add	lress	(County	Ai	ir Basin	Latitude	Longitude	Elevation
18330 Ga Reseda, CA		Los	s Angeles	Soi	uth Coast	34° 11' 57"N	118° 31' 58"W	224



Local site name		Reseda				
AQS ID			060371201			
GPS coordinates (decimal degrees)			Latitude: 34° 11' 57"Longitude: 118° 31' 58"			
Street Address			18330 Gault St, Reseda, CA 91702			
County		Los Ange		<u>-</u>		
Distance to roadways (r	meters)	16 -19				
Traffic count (AADT, y		2,000 / 2	012			
Groundcover	,	Asphalt	-			
(e.g. asphalt, dirt, sand)						
Representative statistica		31080-Lo	os Angeles, Long Beach,	Anaheim MSA		
(i.e. MSA, CBSA, other	r)					
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1		
Parameter code	42101		42602	44201		
Basic monitoring	NAAQS		NAAQS	NAAQS		
objective(s)						
Site type(s)	Population E	Exposure	Population Exposure	Highest		
				Concentration		
Monitor (type)	SLAMS		SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	Teledyne 400E		
manufacturer and						
model	1.70					
Method code	158		074	087		
FRM/FEM/ARM/	FRM		FRM	FEM		
other	agrove.		CCAOMD	CCAOMD		
Collecting Agency	SCAQMD		SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A		
(i.e.weigh lab, toxics						
lab, other)	CCAOMD		CCAOMD	CCAOMD		
Reporting Agency	SCAQMD	. 1	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	oa	Urban	Urban		
micro, neighborhood) Monitoring start date	03/1965		03/1965	03/1965		
(MM/DD/YYYY)	03/1903		03/1903	03/1903		
Current sampling	1:1		1:1	1:1		
frequency (e.g.1:3,	1.1		1.1	1.1		
continuous)						
Calculated sampling	N/A		N/A	N/A		
frequency						
(e.g. 1:3/1:1)						
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)						
Probe height (meters)	5.8		5.8	5.8		
Distance from	2.3		2.3	2.3		
supporting structure						
(meters)				1		
Distance from	N/A		N/A	N/A		
obstructions on roof						
(meters)	NT/A		NT/A	NT/A		
Distance from	N/A		N/A	N/A		
obstructions not on						
roof (meters)						

Distance from trees	N/A	N/A	N/A	
(meters)	11/11	14/11	1771	
Distance to furnace or	N/A	N/A	N/A	
incinerator flue	11/11	1,71	11/11	
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors		- "	- "	
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	Teflon	Teflon	Teflon	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	5.7	7.3	6.4	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	
point QC check for				
gaseous instruments				
Last Annual	02/20/2015	02/20/2015	02/20/2015	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Continuous PM2.5, 3	24 Hour PM2.5, 1	
Parameter code	88502	See Table 26	
Basic monitoring	NAAQS	NAAQS	
objective(s)			
Site type(s)	Population Exposure	Population Exposure	
Monitor (type)	SLAMS	SLAMS	

Instrument	Met One BAM 1020	Andersen RAAS	
	Met One BAM 1020		
manufacturer and		PM2.5	
model			
Method code	731	780, 120	
FRM/FEM/ARM/	Non-FEM	FRM	
other			
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	N/A	SCAQMD	
(i.e.weigh lab, toxics			
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)	Treighborhood	reignoomood	
Monitoring start date	02/19/2009	01/24/1999	
(MM/DD/YYYY)	02/19/2009	01/24/1999	
	1 1	1.2	
Current sampling	1:1	1:3	
frequency (e.g.1:3,			
continuous)			
Calculated sampling	N/A	1:3	
frequency			
(e.g. 1:3/1:1)			
Sampling season	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)			
Probe height (meters)	1.5	5.4	
Distance from	2	2	
supporting structure		2	
(meters)			
Distance from	N/A	N/A	
	N/A	IN/A	
obstructions on roof			
(meters)	27/4	27/4	
Distance from	N/A	N/A	
obstructions not on			
roof (meters)			
Distance from trees	N/A	N/A	
(meters)			
Distance to furnace or	N/A	N/A	
incinerator flue			
(meters)			
Distance between	N/A	N/A	
collocated monitors		<i>"</i>	
(meters)			
Unrestricted airflow	360°	360°	
(degrees)	300	300	
Probe material for	N/A	NI/A	
	1N/A	N/A	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)	27/1	27/1	
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
Will there be changes	N/A	No	
within the next 18			
months? (Y/N)			
	1	1	 1

Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	Yes		
Frequency of flow rate verification for manual PM samplers	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers	Monthly	N/A		
Frequency of one- point QC check for gaseous instruments	N/A	N/A		
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	04//17//2015, 11//06//2015	04//17//2015, 11//06//2015		

Reseda Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

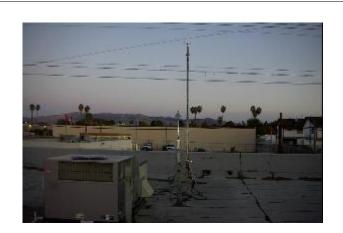
Reseda Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



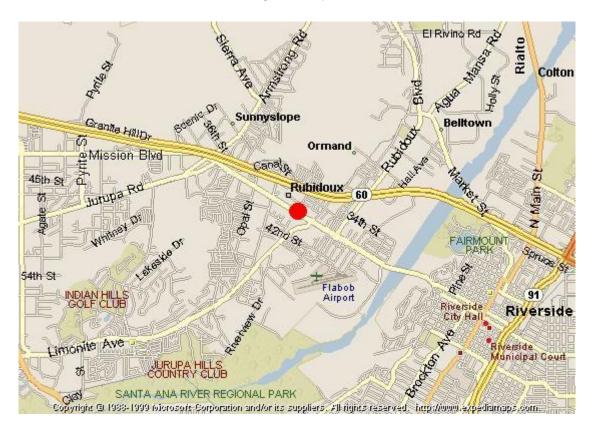
Looking at the probe from the South.



Looking at the probe from the West.

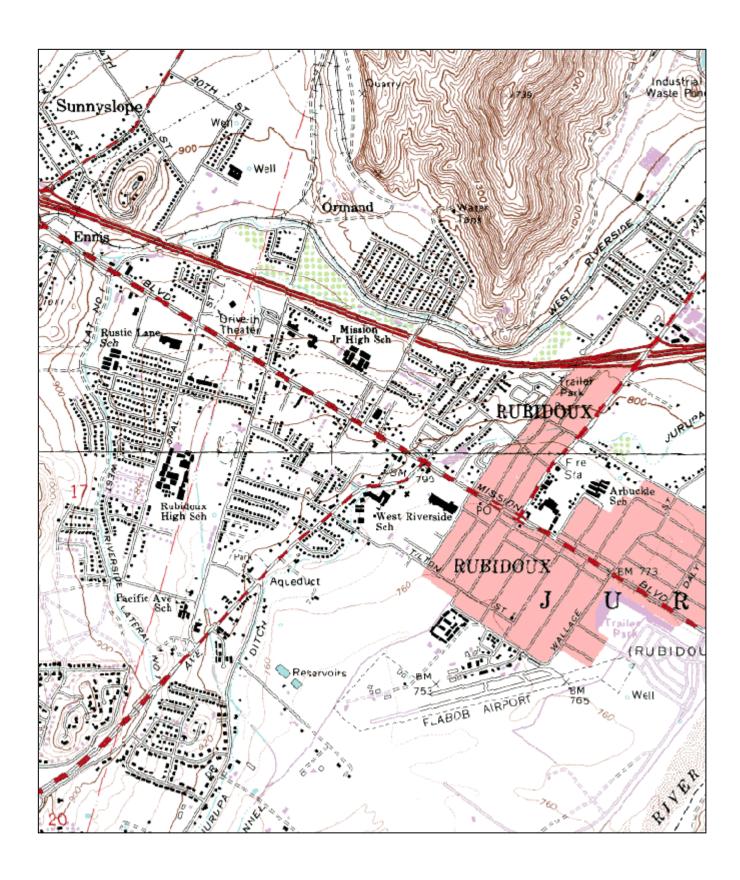
Quality Assurance Site Survey Report for Riverside-Rubidoux

Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060658001	33144	09/1972	South Coast AQMD (061)

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



Local site name		Riverside	e-Rubidoux				
AQS ID		0606580	060658001				
			Latitude: 33° 59' 58" Longitude: 117° 24' 57"				
Street Address			Mission Blvd, Riverside, CA 92509				
County	Riversid						
Distance to roadways (meters)		119; 686					
		20,000 /	/ 2012; 60/Valley Way, 145,000, 2011				
Groundcover	indcover Grave		1				
(e.g. asphalt, dirt, sand)							
Representative statistica		40140-Riverside-San Bernardino-Ontario, CA MSA					
(i.e. MSA, CBSA, other	<i></i>						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1			
Parameter code	42101		42602	44201			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Highest			
				Concentration			
Monitor (type)	SLAMS/PA	MS/	SLAMS/PAMS/	SLAMS/PAMS/			
T	NCore		NCore	NCore			
Instrument	Horiba APM	IA 370	Thermo 42i	Thermo 49i			
manufacturer and							
model	150		074	0.47			
Method code	158		074	047			
FRM/FEM/ARM/ other	FRM		FRM	FEM			
Collecting Agency	CCAOMD		SCAQMD	SCAQMD			
Analytical Lab	SCAQMD N/A		N/A	N/A			
(i.e.weigh lab, toxics	1V/A		IV/A	IN/A			
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhood		Urban	Urban			
micro, neighborhood)	reighborhoo	, a	Croun	Croun			
Monitoring start date	09/1972		09/1972	09/1972			
(MM/DD/YYYY)	05,15,72		05,15,72	03/13/2			
Current sampling	1:1		1:1	1:1			
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A	N/A			
frequency							
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)							
Probe height (meters)	4		4	4			
Distance from	1.52		1.52	1.52			
supporting structure							
(meters)				1			
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters)							

Distance from	N/A	N/A	NT/A
	IN/A	N/A	N/A
obstructions not on			
roof (meters)			
Distance from trees	N/A	N/A	N/A
(meters)			
Distance to furnace or	N/A	N/A	N/A
incinerator flue			
(meters)			
Distance between	N/A	N/A	N/A
collocated monitors			
(meters)			
Unrestricted airflow	360°	360°	360°
(degrees)	300	300	300
Probe material for	Teflon	Teflon	Teflon
reactive gases	1 CHOII	TCHOIL	1 CHOII
(e.g. Pyrex, stainless			
steel, Teflon)	7.2	0.2	0.4
Residence time for	7.3	9.2	8.4
reactive gases			
(seconds)			
Will there be changes	No	No	No
within the next 18			
months? (Y/N)			
Is it suitable for	N/A	N/A	N/A
comparison against			
the annual PM2.5?			
(Y/N)			
Frequency of flow	N/A	N/A	N/A
rate verification for			
manual PM samplers			
Frequency of flow	N/A	N/A	N/A
rate verification for	11/11	14/11	17/11
automated PM			
analyzers	Nightly	Nightly	Nightly
Frequency of one-	Nightly	Nightly	Nightly
point QC check for			
gaseous instruments	02/10/2017	02/10/2017	02/10/2015
Last Annual	03/19/2015	03/19/2015	03/19/2015
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	N/A	N/A	N/A
flow rate audits for			
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			
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Pollutant, POC	Continuous PM2.5,	Continuous PM2.5, 4	Continuous PM10,	24 Hour VOCs, 4
	PM Coarse, 9		PM Coarse, 9	
Parameter code	88101	88502	85101	See Table 26
Basic monitoring	NAAQS	NAAQS	NAAQS	NAAQS/Research
objective(s)				Support
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration

Monitor (type)	SLAMS	SLAMS	SLAMS	NATTS
Instrument	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020	RM Env. 910
manufacturer and				
model				
Method code	170	731	122	See Table 26
FRM/FEM/ARM/	FEM	Non-FEM	FEM	Other
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	N/A	N/A	N/A	SCAQMD
(i.e.weigh lab, toxics				
lab, other)	001010	00101D	ag Love	ag to the
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	12/2008	02/2006	07/30/2011	09/2007
(MM/DD/YYYY)	12/2006	02/2000	07/30/2011	09/2007
Current sampling	1:1	1:1	1:1	1:6
frequency (e.g.1:3,	1.1	1.1	1.1	1.0
continuous)				
Calculated sampling	N/A	N/A	N/A	N/A
frequency			··	"
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
(MM/DD-MM/DD)				
Probe height (meters)	4	4	4	4
Distance from	2	2	2	1
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)	NY/A	NY/ 4	NY/4	NY/ 1
Distance from	N/A	N/A	N/A	N/A
obstructions not on roof (meters)				
Distance from trees	N/A	N/A	N/A	N/A
(meters)	IV/A	IV/A	IV/A	IV/A
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue	10/11	17/11	11/11	11/11
(meters)				
Distance between	1(Flow <200 lpm)	1(Flow <200 lpm)	4	N/A
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	Stainless steel
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)	NT/A	NT/A	DI/A	0.4
Residence time for	N/A	N/A	N/A	8.4
reactive gases				
(seconds)	No	No	No	No
Will there be changes within the next 18	INO	INO	110	INO
months? (Y/N)				
Is it suitable for	No, unless the manual	N/A	No	N/A
15 11 50110010 101	1 10, amess the manual	11/11	110	11/11

comparison against the annual PM2.5?	sampler has missing data.			
(Y/N)				
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	Monthly	Monthly	Monthly	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	Semi Annually
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	12/18/15
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/19/2015, 11/13/2015	05/19/2015, 11/13/2015	05/19/2015, 11/13/2015	N/A

Pollutant, POC	24 Hour VOCs, 8	24 Hour VOCs, 2	3 Hour VOCs, 1	
Parameter code	See Table 26	See Table 26	See Table 26	
Basic monitoring objective(s)	Research support	Research support	Research support	
Site type(s)	Highest Concentration	Highest Concentration	Highest Concentration	
Monitor (type)	NATTS/QA Collocated	PAMS	PAMS	
Instrument manufacturer and model	RM Env. 910	RM Env. 910	RM Env. 910/912 hour	
Method code	See Table 26	See Table 26	See Table 26	
FRM/FEM/ARM/ other	Other	Other	Other	
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	
Analytical Lab (i.e.weigh lab, toxics lab, other)	SCAQMD	SCAQMD	SCAQMD	
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date (MM/DD/YYYY)	11/2004	07/2009	06/2009	
Current sampling frequency (e.g.1:3, continuous)	1:Every other month	1:6	1:3 Intensive season	
Calculated sampling	N/A	N/A	N/A	

frequency				
(e.g. 1:3/1:1)				
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	07/01-09/30	
Probe height (meters)	4	4	4	
Distance from	1	1	1	
supporting structure	1			
(meters)				
Distance from	N/A	N/A	N/A	
obstructions on roof	1,111			
(meters)				
Distance from	N/A	N/A	N/A	
obstructions not on				
roof (meters)				
Distance from trees	N/A	N/A	N/A	
(meters)				
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	Stainless steel	Stainless steel	Stainless steel	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	8.3	6.3	6.3	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
comparison against				
the annual PM2.5?				
(Y/N)	27/1	27/1	22//	
Frequency of flow	N/A	N/A	N/A	
rate verification for				
manual PM samplers	NT/A	NT/A	NT/A	
Frequency of flow	N/A	N/A	N/A	
rate verification for automated PM				
analyzers Frequency of one-	Semi Annually	Sami Annually	Sami Annually	
point QC check for	Semi Amuany	Semi Annually	Semi Annually	
gaseous instruments				
Last Annual	06/24/2015	06/24/2015	06/24/2015	
Performance	00/27/2013	00/24/2013	00/24/2013	
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for	- "	- "	- "	
Tate addits for	1	L	1	ı

PM monitors		
(MM/DD/YYYY,		
MM/DD/YYYY)		

Pollutant, POC	VOCs, N/A	24 Hour PM2.5, 2	24 Hour PM2.5, 1	Speciated PM2.5, 11
Parameter code	N/A	88101	88101	See Table 26
Basic monitoring	Research support	NAAQS	NAAQS	Research support
objective(s)				
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration
Monitor (type)	CA Air Toxics	SLAMS/QA Collocated	SLAMS	SLAMS
Instrument manufacturer and model	RM Env. 910	Thermo 2025i PM2.5, B Sampler QA Collocated	Thermi 2025i PM2.5, A Sampler	Met One SASS
Method code	N/A	118, 145	118, 145	See Table 26
FRM/FEM/ARM/ other	Other	FRM	FRM	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e.weigh lab, toxics lab, other)	ARB Toxics	SCAQMD	SCAQMD	SCAQMD
Reporting Agency	ARB	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	01/1989	01/03/1999	12/04/1998	10/13/2004
Current sampling frequency (e.g.1:3, continuous)	1:12	1:6	1:1	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	1:6	1:3	No CFR mandated sampling schedule.
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	4	3	3	3
Distance from supporting structure (meters)	1	1.6	1.6	1.6
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	10	10	10
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	1.5(Flow <200 lpm)	1.5(Flow <200 lpm)	2
Unrestricted airflow	360°	360°	360°	360°

(degrees)				
Probe material for	Stainless steel	N/A	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	8.3	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	Yes	Yes	N/A
comparison against				
the annual PM2.5?				
(Y/N)	NT/A	36 41	3.6 .1.1	37 11
Frequency of flow rate verification for	N/A	Monthly	Monthly	Monthly
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for	IN/A	N/A	IN/A	IV/A
automated PM				
analyzers				
Frequency of one-	Semi Annually	N/A	N/A	N/A
point QC check for	Semi i imidani	1771	11/11	17/11
gaseous instruments				
Last Annual	N/A	N/A	N/A	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	05/19/15,	05/19/2015,	06/14/2015,
flow rate audits for		06/30/15, 11/13/15,	11/13/2015	12/16/2015
PM monitors		12/07/15		
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Speciated PM2.5,	Speciated PM2.5,	PM2.5 Carbon, N/A	PM2.5 Carbon, N/A
	N/A	N/A		
Parameter code	N/A	N/A	N/A	N/A
Basic monitoring	NAAQS/Research	NAAQS/Research	NAAQS/Research	NAAQS/Research
objective(s)	support	support	support	support
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration
Monitor (type)	STN	STN/QA Collocated	STN	STN/QA Collocated
Instrument	Met One SASS,	Met One SASS,	URG-3000N,	URG-3000N,
manufacturer and	A Sampler	B Sampler	A Sampler	B Sampler
model				
Method code	N/A	N/A	N/A	N/A
FRM/FEM/ARM/	Other	Other	Other	Other
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	EPA STN	EPA STN	EPA STN	EPA STN
(i.e.weigh lab, toxics				
lab, other)				
Reporting Agency	EPA	EPA	EPA	EPA

Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	03/2001	03/2001	05/2007	05/2007
Current sampling frequency (e.g.1:3, continuous)	1:3	1:6	1:3	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	1:3	1:3	1:3	1:3
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	3	3	2	2
Distance from supporting structure (meters)	1.6	1.6	1	1
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	1.5(Flow <200 lpm)	1.5(Flow <200 lpm)	1.5(Flow <200 lpm)	1.5(Flow <200 lpm)
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases (seconds)	N/A	N/A	N/A	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for	N/A	N/A	N/A	N/A

gaseous instruments				
Last Annual	N/A	N/A	N/A	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	N/A
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Lead, 2	PM10, 2	PM10, 4	Metals, CR6,
				Carbonyls, 1
Parameter code	14129	See Table 26	See Table 26	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Highest Concentration	Highest Concentration	Highest Concentration
Monitor (type)	SLAMS	SLAMS	SLAMS/QA Collocated	NATTS
Instrument manufacturer and model	GMW 1200 TSP	Sierra Andersen 1200 SSI, A Sampler	Sierra Andersen 1200 SSI, B Sampler	RM Env. 924, A Sampler
Method code	110	063, 102	063, 102	See Table 26
FRM/FEM/ARM/ other	FRM	FRM	FRM	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e.weigh lab, toxics lab, other)	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	09/06/1990	01/01/1988	01/01/1988	01/2007
Current sampling frequency (e.g.1:3, continuous)	1:6	1:3	1:6	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	1:6	1:6	1:6	No CFR mandated sampling schedule.
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	2	2.5	2.5	3
Distance from supporting structure (meters)	1.6	1.6	1.6	1.6
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A

Distance from trees	10	10	10	10
(meters) Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue	IN/A	IN/A	IN/A	IN/A
(meters)				
Distance between	N/A	4	4	4
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)				
Probe material for	N/A	N/A	N/A	N/A
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)	NT/A	NT/A	NT/A	DT/A
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds) Will there be changes	No	No	No	No
within the next 18	110	140	110	INU
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				- ''
the annual PM2.5?				
(Y/N)				
Frequency of flow	Monthly	Monthly	Monthly	Monthly
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for				
automated PM				
analyzers Frequency of one-	N/A	N/A	N/A	N/A
point QC check for	11/71	11/11	1 V/ A	11/71
gaseous instruments				
Last Annual	N/A	N/A	N/A	N/A
Performance		- "	- "	
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	05/30/14,	05/19/2015,	05/19/2015,	N/A
flow rate audits for	12/17/14	11/13/2015	11/13/2015	
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Metals, CR6,	Metals, CR6,	Polycyclic Aromatic	Polycyclic Aromatic
	Carbonyls, 2	Carbonyls, N/A	Hydrocarbons, 1	Hydrocarbons, 2
Parameter code	See Table 26	N/A	N/A	N/A
Basic monitoring objective(s)	NAAQS	Research support	Research support	Research support
Site type(s)	Highest	Highest	Highest	Highest
	Concentration	Concentration	Concentration	Concentration
Monitor (type)	NATTS/QA	CA Air Toxics	NATTS	NATTS/QA
	Collocated			Collocated
Instrument	RM Env. 924, B	RM Env. 924	Tisch Env. PUF, A	Graseby PUF, B

manufacturer and	Sampler		Sampler	Sampler
model Method code	See Table 26	N/A	N/A	N/A
FRM/FEM/ARM/	Other	Other	Other	Other
other	Other	Other	Other	Other
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	ARB Toxics	ERG North Carolina	ERG North Carolina
(i.e.weigh lab, toxics	Benginb	THED TOXICS	Litto i tortir caronna	ERG North Caronna
lab, other)				
Reporting Agency	SCAQMD	ARB	ERG North Carolina	ERG North Carolina
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	Neighborhood
micro, neighborhood)				
Monitoring start date (MM/DD/YYYY)	01/2007	01/1989	07/2007	07/2007
Current sampling	1:Every other month	1:12	1:6	1:Every other month
frequency (e.g.1:3,				
continuous)				
Calculated sampling	No CFR mandated	No CFR mandated	No CFR mandated	No CFR mandated
frequency	sampling schedule.	sampling schedule.	sampling schedule.	sampling schedule.
(e.g. 1:3/1:1)				
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	3	3	3	3
Distance from	2	2	2	2
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)		<u> </u>		
Distance from trees	N/A	N/A	N/A	N/A
(meters)	NT/A	NT/A	NT/A	NT/A
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters) Distance between	3	3	3	3
collocated monitors	3	3	3	3
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	N/A	N/A	N/A	N/A
reactive gases	14/11	14/11	17/11	1 1/11
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	N/A
reactive gases				
(seconds)				
Will there be changes	No	No	No	No
within the next 18				
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against				
the annual PM2.5?				

(Y/N)				
Frequency of flow rate verification for manual PM samplers	Monthly	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A

Pollutant, POC	Carbon Monoxide, 9	Sulfur Dioxide, 9	NOY, 9	
Parameter code	42101	42401	42612	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	
Monitor (type)	SLAMS/NCore	SLAMS/NCore	SLAMS/NCore	
Instrument manufacturer and model	Teledyne 300EU	Thermo 43i-TLE	Thermo 42i-Y	
Method code	593	560	574	
FRM/FEM/ARM/ other	FRM	FEM	N/A	
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	
Analytical Lab (i.e.weigh lab, toxics lab, other)	N/A	N/A	N/A	
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Urban	
Monitoring start date (MM/DD/YYYY)	03/30/2010	08/03/2010	08/19/2010	
Current sampling frequency (e.g.1:3, continuous)	1:1	1:1	1:1	
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	N/A	N/A	
Sampling season (MM/DD-MM/DD)	01/01/-12/31	01/01/-12/31	01/01/-12/31	
Probe height (meters)	4	4	4	
Distance from supporting structure	1.5	1.5	1.5	

(motors)				
(meters) Distance from	N/A	N/A	N/A	
obstructions on roof	IN/A	IN/A	IN/A	
(meters)	NT/A	NT/A	NT/A	
Distance from	N/A	N/A	N/A	
obstructions not on				
roof (meters)	27/1	27/1	27/1	
Distance from trees	N/A	N/A	N/A	
(meters)				
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	Teflon	Teflon	Teflon	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	4.2	5.8	5.8	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)				
Is it suitable for	No	No	No	
comparison against				
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	Weekly	Weekly	Weekly	
point QC check for				
gaseous instruments				
Last Annual	12/20/2015	12/20/2015	12/20/2015	
Performance			– • - •	
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for		- "	- "	
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
11111/00/11111/	L	L		

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 SA Recycling Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060711407	Unavailable	6/2012	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
8822 Etiwanda Ave. , Rancho Cucamonga,CA,91739	San Bernardino	South Coast	34° 05' 35"N	117° 31' 41"W	351 m



Local site name	SA Recy		cling				
AQS ID		Unavaila					
GPS coordinates (decimal degrees)		Latitude:	Latitude: 34° 05' 35"N Longitude: 117° 31' 41"W				
Street Address			8822 Etiwanda Ave. , Rancho Cucamonga, CA, 91739				
County		San Bern	ardino	<u> </u>			
Distance to roadways (1	meters)	400 m					
Traffic count (AADT, y		Unavailal	ole				
Groundcover	,	Asphalt					
(e.g. asphalt, dirt, sand)		1					
Representative statistica	al area name	40140-R	iverside-San Bernarding	o-Ontario, CA MSA			
(i.e. MSA, CBSA, other							
Pollutant, POC	Lead, 1	•	Metals, CR6, 1				
Parameter code	14129		See Table 26				
Basic monitoring	NAAQS		NAAQS				
objective(s)							
Site type(s)	Source Orien	nted	Source Oriented				
Monitor (type)	SLAMS		NATTS				
Instrument	GMW 1200	TSP	RM Env. 924, A				
manufacturer and			Sampler				
model							
Method code	110		See Table 26				
FRM/FEM/ARM/	FRM		Other				
other							
Collecting Agency	SCAQMD		SCAQMD				
Analytical Lab	SCAQMD		SCAQMD				
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD				
Spatial scale (e.g.	Micro		Micro				
micro, neighborhood)							
Monitoring start date (MM/DD/YYYY)	6/26/12		7/19/12				
Current sampling	1:6		1:3				
frequency (e.g.1:3,							
continuous)							
Calculated sampling	1:6		No CFR mandated				
frequency			sampling schedule.				
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31				
(MM/DD-MM/DD)							
Probe height (meters)	2.6		3				
Distance from	1		1.6				
supporting structure							
(meters)							
Distance from	N/A		N/A				
obstructions on roof							
(meters)	1		27/1				
Distance from	N/A		N/A				
obstructions not on							
roof (meters)	<u> </u>						

Γ=.	T · ·	T	1	T
Distance from trees (meters)	N/A	N/A		
Distance to furnace or incinerator flue (meters)	N/A	N/A		
Distance between collocated monitors (meters)	N/A	N/A		
Unrestricted airflow (degrees)	360°	360°		
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A		
Residence time for reactive gases (seconds)	N/A	N/A		
Will there be changes within the next 18 months? (Y/N)	No	No		
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A		
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A		
Frequency of one- point QC check for gaseous instruments	N/A	N/A		
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	Scheduled for audit in 2016.	N/A		

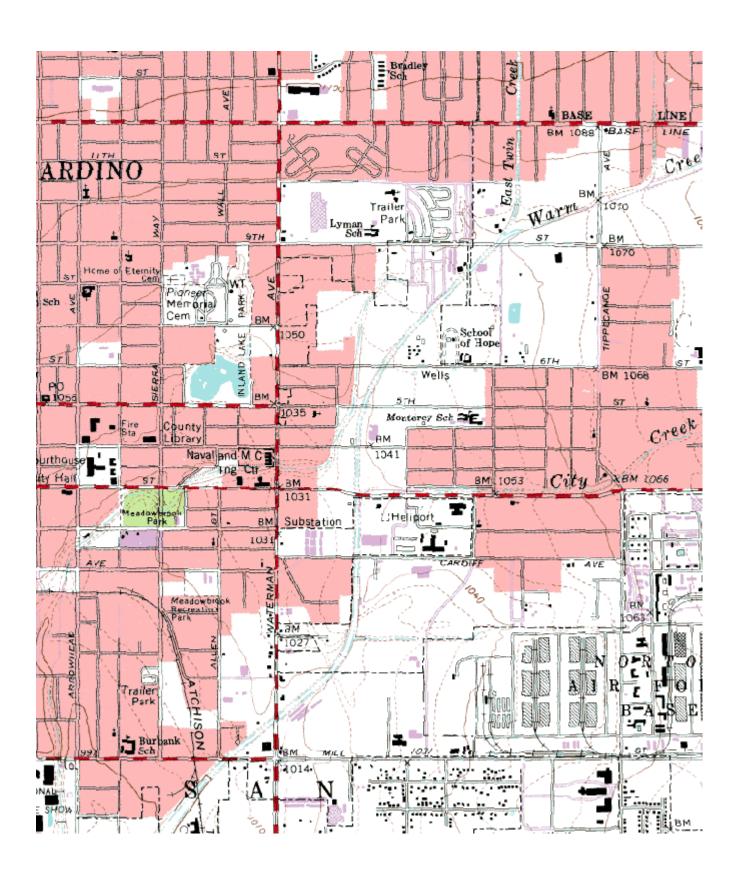
Quality Assurance Site Survey Report for San Bernardino

Last updated: May 15, 2016



	AQS ID ARB Number Site		Site Start Date	Reporting Agency and Agency Code
ĺ	060719004	36203	05/1986	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"N	117° 16' 26"W	316



Local site name	site name San		San Bernardino				
AQS ID		0607190	04				
GPS coordinates (decin	nal degrees)	Latitude: 34° 06' 24" Longitude: 117° 16' 26"					
Street Address			4th St, San Bernardino, C				
County		San Berr	ardino				
		16 - 23					
Traffic count (AADT, y	/ear)	2,500 / 2	012				
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	40140-R	iverside-San Bernardino-	Ontario, CA MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	Continuous PM10, 3		
Parameter code	42101		42602	44201	81102		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Highest	Highest		
				Concentration	Concentration		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	IA 370	Thermo 42i	API/Teledyne 400E	R&P 1400A TEOM		
manufacturer and							
model							
Method code	158		074	087	079		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics							
lab, other)	aa. 0. m		ag Love	agrove.	act or the		
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Middle		Urban	Neighborhood	Neighborhood		
micro, neighborhood)	05/1006		05/1007	05/1007	00/01/2004		
Monitoring start date (MM/DD/YYYY)	05/1986		05/1986	05/1986	09/01/2004		
Current sampling	1:1		1:1	1:1	1;1		
frequency (e.g.1:3,	1.1		1.1	1.1	1,1		
continuous)							
Calculated sampling	N/A		N/A	N/A	N/A		
frequency	14/21		17/11	14/11	1771		
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
(MM/DD-MM/DD)	01/01 12/31						
Probe height (meters)	4.8		4.8	4.8	2.4		
Distance from	1.4		1.4	1.4	1.4		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)							

Distance from trees	N/A	N/A	N/A	N/A
(meters)	NY/ A	27/4	27/4	N/A
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)	NT/A	NT/A	NT/A	2.6
Distance between	N/A	N/A	N/A	2.6
collocated monitors				
(meters) Unrestricted airflow	360°	360°	360°	360°
	300	300	300°	300
(degrees) Probe material for	Teflon	Teflon	Teflon	N/A
	Tellon	Tellon	Tenon	N/A
reactive gases				
(e.g. Pyrex, stainless steel, Teflon)				
Residence time for	7.2	7.9	7.7	N/A
reactive gases	1.2	1.7	1.1	11/74
(seconds)				
Will there be changes	No	No	No	No
within the next 18	110	140	140	140
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against	IV/A	IV/A	IV/A	IVA
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for	1,712	1,112	1,111	1 11 12
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	Monthly
rate verification for				, , , , , , , , , , , , , , , , , , ,
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	N/A
point QC check for				
gaseous instruments				
Last Annual	03/12/2015	03/12/2015	03/12/2015	N/A
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	06/18/2015,
flow rate audits for				12/08/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Lead, 2	24 Hour PM2.5, 1	PM10, 2	
Parameter code	14129	See Table 26	See Table 26	
Basic monitoring	NAAQS	NAAQS	NAAQS	
objective(s)				
Site type(s)	Population Exposure	Population Exposure	Highest	
			Concentration	
Monitor (type)	SLAMS	SLAMS	SLAMS	
Instrument	GMW 1200 TSP	Andersen RAAS	GMW 1200 SSI	

manufacturer and		PM2.5		
model		PM2.5		
Method code	110	780, 120	063, 102	
FRM/FEM/ARM/	FRM	FRM	FRM	
other	FKWI	LKM	FKIVI	
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	
	-	•	=	
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	
(i.e.weigh lab, toxics lab, other)				
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	Neighborhood	
micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	09/1990	08/27/2008	01/1997	
(MM/DD/YYYY)	07/1770	00/27/2000	01/1///	
Current sampling	1:6	1:3	1:6	
frequency (e.g.1:3,	1.0	1.3	1.0	
continuous)				
Calculated sampling	1:6	1:3	1:6	
frequency				
(e.g. 1:3/1:1)				
Sampling season	01/01-12/31	01/01-12/31	01/01-12/31	
(MM/DD-MM/DD)				
Probe height (meters)	2.0	2.0	2.0	
Distance from	1.0	1.0	1.0	
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	
obstructions not on				
roof (meters)	NT/A	NT/A	NT/A	
Distance from trees	N/A	N/A	N/A	
(meters) Distance to furnace or	N/A	N/A	N/A	
incinerator flue	IN/A	IN/A	IN/A	
(meters)				
Distance between	N/A	N/A	2.6	
collocated monitors	14/11	14/11	2.0	
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	N/A	N/A	N/A	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	N/A	N/A	N/A	
reactive gases				
(seconds)				
Will there be changes	No	No	No	
within the next 18				
months? (Y/N)	NT/A	Vas	N _a	
Is it suitable for comparison against	N/A	Yes	No	
the annual PM2.5?				
uie aiiiuai FIVI2.3!			L	

(Y/N)				
Frequency of flow rate verification for manual PM samplers	Monthly	Monthly	Monthly	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	04/16/2015, 10/31/2015	04/16/2015, 10/31/2015	04/16/2015, 10/31/2015	

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.



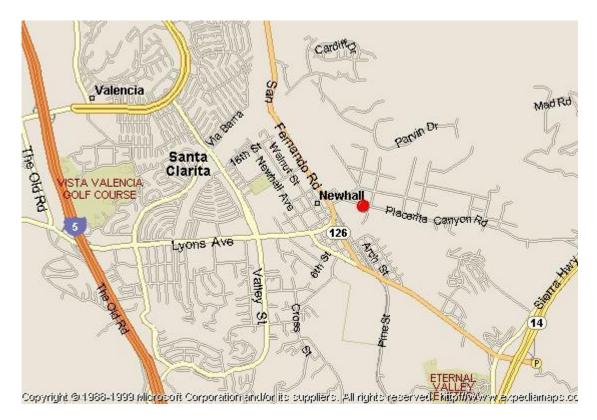
Looking at the probe from the South.



Looking at the probe from the West.

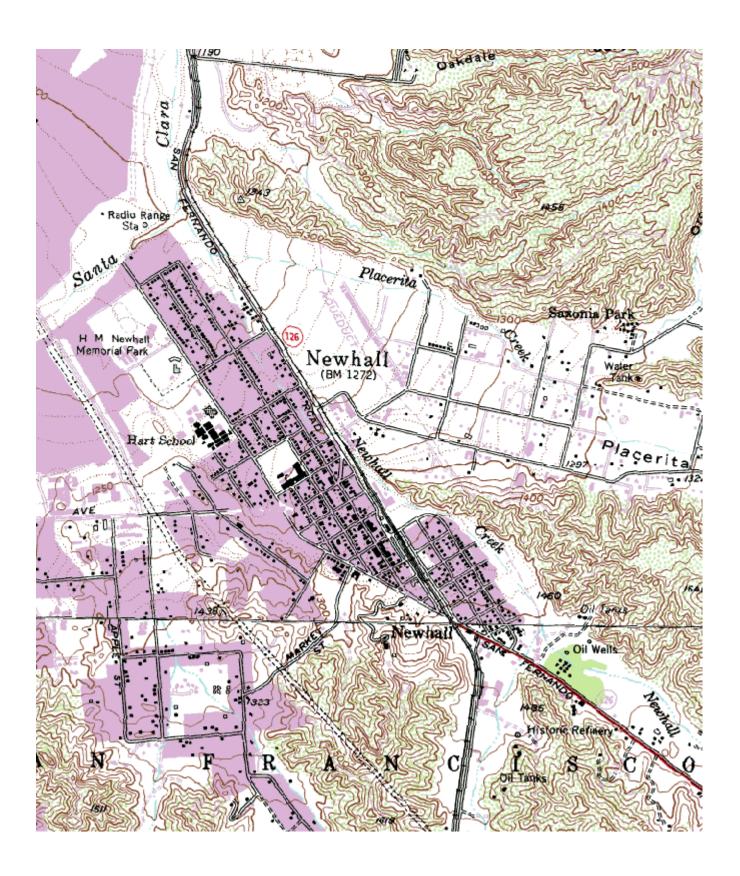
Quality Assurance Site Survey Report for Santa Clarita-Placerita

Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060376012	70090	05/2001	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"N	118° 31' 42"W	386



Local site name		Santa Cl	Santa Clarita-Placerita					
AQS ID			060376012					
GPS coordinates (decin	nal degrees)	Latitude:	Latitude: 34° 23' 0" Longitude: 118° 31' 42"					
Street Address			22224 Placerita Canyon, Santa Clarita, CA 91321					
County	County		eles	·				
Distance to roadways (meters)		91						
Traffic count (AADT, y		5,000 / 2	012					
Groundcover	,	Asphalt						
(e.g. asphalt, dirt, sand)		1						
Representative statistica		31080-L	os Angeles, Long Beach,	Anaheim MSA				
(i.e. MSA, CBSA, other	r)							
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1	PM10, 1			
Parameter code	42101		42602	44201	See Table 26			
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS			
objective(s)								
Site type(s)	Population F	Exposure	Population Exposure	Highest Concentration	Population Exposure			
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	Teledyne 200E	Teledyne 400E	GMW 1200 SSI			
manufacturer and								
model								
Method code	106		099	087	063, 102			
FRM/FEM/ARM/	FRM		FRM	FEM	FRM			
other								
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A	SCAQMD			
(i.e.weigh lab, toxics								
lab, other)								
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Urban	Neighborhood			
micro, neighborhood)	0.7.7.004		0.7/7.004	0.7/2.004	0.7.17.00.1			
Monitoring start date (MM/DD/YYYY)	05/2001		05/2001	05/2001	05/2001			
Current sampling	1:1		1:1	1:1	1:6			
frequency (e.g.1:3,								
continuous)								
Calculated sampling	N/A		N/A	N/A	1:6			
frequency								
(e.g. 1:3/1:1)								
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31			
Probe height (meters)	4.4		4.4	4.4	2.4			
Distance from	1.8		1.8	1.8	1.4			
supporting structure								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions on roof								
(meters)								
Distance from	N/A		N/A	N/A	N/A			
obstructions not on								
roof (meters)								

Distance from trees (meters)	30	30	30	30
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	6.0	7.2	6.5	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	09/29/2015	09/29/2015	09/29/2015	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	04/17/2015, 11/06/2015

Pollutant, POC	24 Hour Carbonyls, 2	24 Hour VOCs, 2	3 Hour VOCs, 1	Continuous PM2.5, 3
Parameter code	See Table 26	See Table 26	See Table 26	88502
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Highest	Highest	Highest	Population Exposure
	Concentration	Concentration	Concentration	
Monitor (type)	PAMS	PAMS	PAMS	SLAMS
Instrument	ATEC 8000	RM Env. 910A	RM Env. 910A	Met One BAM 1020

manufacturer and				
model				
Method code	See Table 26	See Table 26	See Table 26	731
FRM/FEM/ARM/	Other	Other	Other	Non-FEM
other				
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab	SCAQMD	SCAQMD	SCAQMD	N/A
(i.e.weigh lab, toxics				
lab, other)	CC LOND	CC A O A CD	CCAOMD	CCAOMD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g.	Urban	Urban	Urban	Neighborhood
micro, neighborhood)	05/2001	05/2001	05/2001	10/23/2008
Monitoring start date (MM/DD/YYYY)			05/2001	
Current sampling	1:6 / 1:3	1:6 / 1:3	1:6 / 1:3	1:1
frequency (e.g.1:3,				
continuous)				
Calculated sampling	No CFR mandated	No CFR mandated	No CFR mandated	N/A
frequency	sampling schedule.	sampling schedule.	sampling schedule.	
(e.g. 1:3/1:1)	0=104 001=0	0.1/0.1.10/0.1	0.1/0.1.10/0.1	
Sampling season (MM/DD-MM/DD)	07/01-09/30	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	4.4	4.4	4.4	5.4
Distance from	1.8	1.8	1.8	1.8
supporting structure				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions on roof				
(meters)				
Distance from	N/A	N/A	N/A	N/A
obstructions not on				
roof (meters)				
Distance from trees	16	16	16	16
(meters)	27/4	27/4	27/4	37/4
Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue				
(meters)	NT/A	NT/A	NT/A	NT/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	Stainless	Stainless	Stainless	Stainless
reactive gases	Stanness	Stanness	Stanness	Stainless
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	5.0	5.0	5.0	N/A
reactive gases	3.0	3.0	3.0	11/11
(seconds)				
Will there be changes	No	No	No	No
within the next 18	110	110	110	
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against		- 1/12	11/11	- 1/ - 1
the annual PM2.5?				

(Y/N)				
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly
Frequency of one- point QC check for gaseous instruments	Semi Annually	Semi Annually	Semi Annually	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	2/6/14	2/6/14	2/6/14	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	04/17/2015, 11/06/2015

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 Temecula (Lake Skinner)

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060650016	33031	06/30/2010	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
33700 Borel Rd. Winchester, CA 92596	Riverside	South Coast	33° 34' 59"N	117° 04' 20"W	453 m



Local site name		Temecula (Lake Skinner)					
AQS ID		060650016					
GPS coordinates (decimal degrees)		Latitude: 33° 34' 59" Longitude: 117° 04' 20"					
Street Address		33700 Borel Rd. Winchester, CA 92596					
County		Riverside					
Distance to roadways (meters)		10					
Traffic count (AADT, year)		20 / 2012					
Groundcover		Asphalt					
(e.g. asphalt, dirt, sand)							
Representative statistical area name		40140-Riverside-San Bernardino-Ontario, CA MSA					
(i.e. MSA, CBSA, other	,						
Pollutant, POC	Ozone, 1		Continuous PM2.5, 3				
Parameter code	44201		88502				
Basic monitoring	NAAQS		NAAQS				
objective(s)							
Site type(s)	Highest		Population Exposure				
	Concentration	n					
Monitor (type)	SLAMS		SLAMS				
Instrument	Teledyne AF	PI 400E	Met One BAM 1020				
manufacturer and							
model							
Method code	087		731				
FRM/FEM/ARM/	FEM		Non-FEM				
other							
Collecting Agency	SCAQMD		SCAQMD				
Analytical Lab	N/A		N/A				
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD				
Spatial scale (e.g.	Neighborhood		Neighborhood				
micro, neighborhood)	00/00/00/0						
Monitoring start date	09/30/2010		06/30/2010				
(MM/DD/YYYY)	1.1		1.1				
Current sampling	1:1		1:1				
frequency (e.g.1:3,							
continuous)	NT/A		NI/A				
Calculated sampling	N/A		N/A				
frequency (e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31				
(MM/DD-MM/DD)	01/01-12/31		01/01-12/31				
Probe height (meters)	4		4				
Distance from	1		1				
supporting structure							
(meters)							
Distance from	N/A		N/A				
obstructions on roof							
(meters)							
Distance from	N/A		N/A				
obstructions not on							
roof (meters)	roof (meters)						

	1 37/4	1 27/4	1
Distance from trees (meters)	N/A	N/A	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between collocated monitors (meters)	N/A	N/A	
Unrestricted airflow (degrees)	360°	360°	
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	
Residence time for reactive gases (seconds)	7.1	N/A	
Will there be changes within the next 18 months? (Y/N)	No	No	
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	
Frequency of flow rate verification for manual PM samplers	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	
Frequency of one- point QC check for gaseous instruments	Nightly	N/A	
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/16/2015	N/A	
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	06/27/2015, 12/05/2015	

Temecula – Lake Skinner Site Photos



Looking North from probe



Looking East from the probe.



Looking South from the probe.



Looking West from the probe

Temecula – Lake Skinner Site Photos (Cont.)



Looking at the probe to the North.



Looking from the probe to the East.



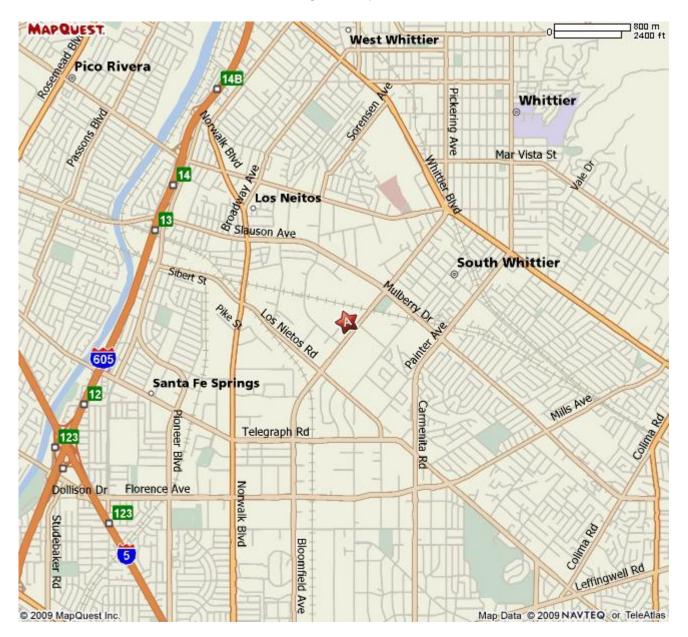
Looking at the probe to the South.



Looking at the probe to the West.

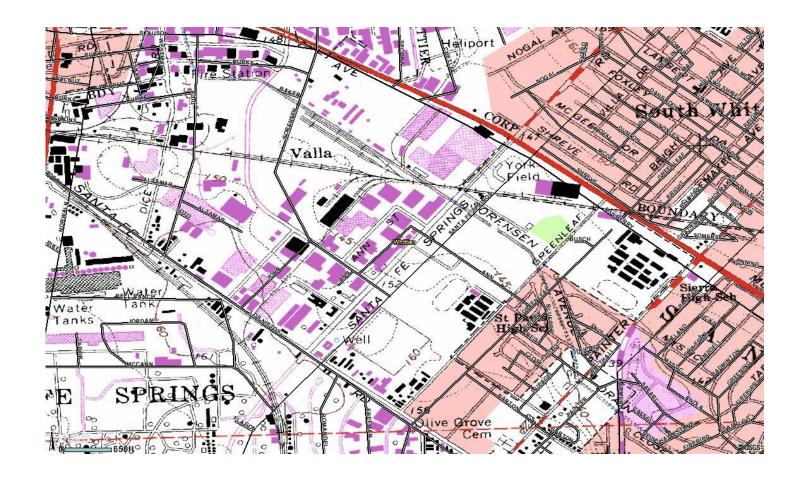
Quality Assurance Site Survey Report for Uddeholm (Quemetco)

Last updated May, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060371403	70045	11/26/1992	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"N	118° 03' 19"W	44 m

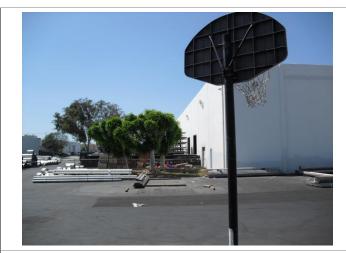


Detailed Site Information

AQS ID	Local site name		Uddeholm (Trojan Battery)			
Author						
Street Address					118° 03' 19"	
Distance to roadways (meters) 26		<i>y</i>				
Distance to roadways (meters) 26	County					
Supplementation Supplement		neters)				
Asphalt (e.g., asphalt, dirt, sand)			30,000 /	2012		
(e.g. asphalt, dirt, sand) Representative statistical area name (i.e. MSA, CBSA, other) Ollutant, POC		,				
Representative statistical area name (i.e. MSA, CBSA, other) Plollutant, POC Lead, 1 Parameter code Basic monitoring objective(s) Site type(s) Source Oriented Monitor (type) Instrument GMW 1200 TSP Manufacturer and model Method code FRM/FEM/ARM other Collecting Agency SCAQMD Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions not on N/A Distance from obstructions not not N/A	(e.g. asphalt, dirt, sand)		•			
Size MSA, CBSA, other)			31080-Lo	os Angeles-Long Beach-	Anaheim MSA	
Parameter code Basic monitoring NAAQS objective(s) Site type(s) Source Oriented Monitor (type) SLAMS Instrument Model Mentor code III0 FRM/FEM/ARM/ other Collecting Agency SCAQMD ScaQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:31, continuous) Calculated sampling frequency (e.g. 1:31:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions on roof (meters) Distance from obstructions not on of Starce from obstructions on roof (meters) Distance from obstructions on roof ometers) Distance from obstructions on roof (meters) Distance from obstructions on roof ometers)	(i.e. MSA, CBSA, other	r)				
Parameter code Basic monitoring NAAQS objective(s) Site type(s) Source Oriented Monitor (type) SLAMS Instrument GMW 1200 TSP manufacturer and model Method code 110 FRM/FEM/ARM/ other Collecting Agency SCAQMD Shah, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:31:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions on roof (meters) Distance from obstructions not on of Starce from obstructions not not from the starce from obstructions not not of Starce from obstructions not not of Starce from obstructions not not of Starce from obstructions not not not from the starce from obstructions not not not from the starce from obstructions not not not from the starce from			•			
Objective(s) Source Oriented	Parameter code					
Site type(s) Source Oriented Monitor (type) SLAMS Instrument manufacturer and model Method code 110 FRM/FEM/ARM/ other Collecting Agency SCAQMD Analytical Lab (i.e.weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions not on N/A Distance from obstructions not on N/A Distance from obstructions not on	Basic monitoring	NAAQS				
Site type(s) Source Oriented Monitor (type) SLAMS Instrument manufacturer and model Method code 110 FRM/FEM/ARM/ other Collecting Agency SCAQMD Analytical Lab (i.e.weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions not on N/A Distance from obstructions not on N/A Distance from obstructions not on	_					
Monitor (type) SLAMS Instrument GMW 1200 TSP manufacturer and model Method code 110 FRM/FEM/ARM/ other GOlecting Agency SCAQMD G.e.weigh lab, toxics lab, other) G.e.weigh lab, othe		Source Orien	nted			
manufacturer and model Method code FRM/FEM/ARM/ FRM other Collecting Agency SCAQMD Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A		SLAMS				
model Method code	Instrument	GMW 1200	TSP			
Method code 110 FRM/FEM/ARM/ other Collecting Agency SCAQMD Analytical Lab (i.e.weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. Micro micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions not on bestructions not on of season of the structure of the struc						
FRM/FEM/ARM/ other Collecting Agency SCAQMD Analytical Lab (i.e.weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions on roof (meters) Distance from obstructions not on Distance from obstructions not on						
other Collecting Agency SCAQMD Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions not on N/A N/A SCAQMD Micro Mic						
Collecting Agency SCAQMD Analytical Lab (i.e.weigh lab, toxics lab, other) Seporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions not on N/A SCAQMD Micro M	FRM/FEM/ARM/	FRM				
Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions not on N/A SCAQMD SCAQMD Micro M						
(i.e.weigh lab, toxics lab, other) Reporting Agency SCAQMD Spatial scale (e.g. Micro micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions not on N/A SCAQMD SCAQMD Micro	Collecting Agency	SCAQMD				
lab, other) Reporting Agency SCAQMD Spatial scale (e.g. Micro micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on		SCAQMD				
Reporting Agency Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions not on N/A SCAQMD Micro Micro 11/26/1992 1:6 1:6 1:6 1:6 1:7 1:6 1:7 1:6 1:7 1:7						
Spatial scale (e.g. micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from obstructions on roof (meters) Distance from obstructions not on						
micro, neighborhood) Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on						
Monitoring start date (MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on		Micro				
(MM/DD/YYYY) Current sampling frequency (e.g.1:3, continuous) 1:6 Calculated sampling frequency (e.g. 1:3/1:1) 1:6 Sampling season (MM/DD-MM/DD) 01/01-12/31 Probe height (meters) 2.6 Distance from supporting structure (meters) 1 Distance from obstructions on roof (meters) N/A Distance from obstructions not on N/A						
Current sampling frequency (e.g.1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on		11/26/1992				
frequency (e.g. 1:3, continuous) Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on						
Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions on roof (meters) Distance from obstructions not on		1:6				
Calculated sampling frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on						
frequency (e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on		1.6				
(e.g. 1:3/1:1) Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A Obstructions not on		1:0				
Sampling season (MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A						
(MM/DD-MM/DD) Probe height (meters) 2.6 Distance from supporting structure (meters) 1 Distance from obstructions on roof (meters) N/A Distance from obstructions not on N/A		01/01 12/21				
Probe height (meters) 2.6 Distance from 1 supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A obstructions not on		01/01-12/31				
Distance from supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A		2.6				
supporting structure (meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A						
(meters) Distance from obstructions on roof (meters) Distance from obstructions not on N/A		1				
Distance from obstructions on roof (meters) Distance from obstructions not on						
obstructions on roof (meters) Distance from obstructions not on		N/A				
(meters) Distance from N/A obstructions not on						
Distance from N/A obstructions not on						
obstructions not on		N/A				
roof (meters)						
	roof (meters)					

r = .	T	T	T
Distance from trees	N/A		
(meters)			
Distance to furnace or	N/A		
incinerator flue			
(meters)			
Distance between	2		
collocated monitors			
(meters)			
Unrestricted airflow	360°		
(degrees)			
Probe material for	N/A		
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A		
reactive gases			
(seconds)			
Will there be changes	No		
within the next 18	110		
months? (Y/N)			
Is it suitable for	N/A		
comparison against	14/74		
the annual PM2.5?			
(Y/N)			
Frequency of flow	Monthly		
rate verification for	Wilding		
manual PM samplers			
Frequency of flow	N/A		
rate verification for	IN/A		
automated PM			
analyzers	N/A		
Frequency of one-	IN/A		
point QC check for			
gaseous instruments	NT/A		
Last Annual	N/A		
Performance			
Evaluation for			
gaseous parameters (MM/DD/YYYY)			
Last two semi-annual	06/03/2015,		
flow rate audits for	11/25/2015		
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

Trojan Battery - UDDH Site Photos



Looking North from the probe





Looking South toward the probe.



Looking West from the probe

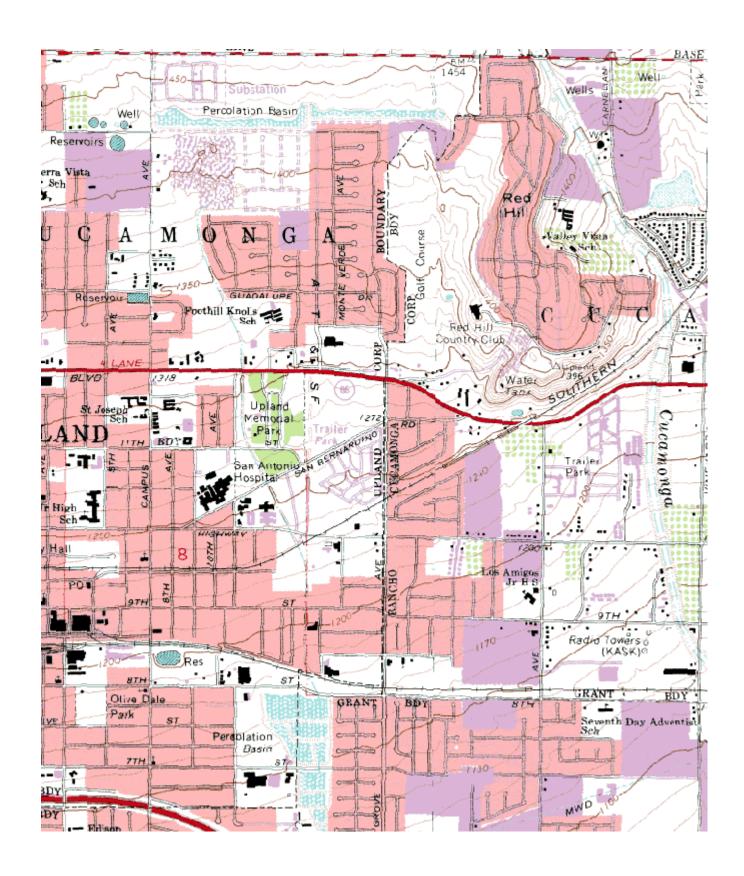
Quality Assurance Site Survey Report for Upland

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060711004	36175	03/1973	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"N	117° 37' 45"W	385



Detailed Site Information

Local site name		Upland					
AQS ID		0607110	04				
GPS coordinates (decin	nal degrees)	Latitude: 34° 06' 13" Longitude: 117° 37' 45"					
Street Address		1350 Sar	1350 San Bernardino Rd, #62, Upland, CA 91786				
County		San Berr		,			
Distance to roadways (r	neters)	80					
Traffic count (AADT, y		10,000 /	2012				
Groundcover	,	Gravel					
(e.g. asphalt, dirt, sand)							
Representative statistica	al area name	40140-R	iverside-San Bernardino-	Ontario, CA MSA			
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 2	Ozone, 1	Continuous PM10, 3		
Parameter code	42101		42602	44201	81162		
Basic monitoring	NAAQS		NAAQS	NAAQS	NAAQS		
objective(s)							
Site type(s)	Population E	Exposure	Population Exposure	Population Exposure	Population Exposure		
Monitor (type)	SLAMS		SLAMS	SLAMS	SLAMS		
Instrument	Horiba APM	[A 370	Thermo Scientific 42i	API/Teledyne 400E	Met One BAM 1020		
manufacturer and							
model							
Method code	158		074	087	122		
FRM/FEM/ARM/	FRM		FRM	FEM	FEM		
other							
Collecting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Analytical Lab	N/A		N/A	N/A	N/A		
(i.e.weigh lab, toxics							
lab, other)							
Reporting Agency	SCAQMD		SCAQMD	SCAQMD	SCAQMD		
Spatial scale (e.g.	Neighborhoo	od	Neighborhood	Neighborhood	Neighborhood		
micro, neighborhood)	0.040.00		0.040.00	0.040.000	0.4/0.2/2010		
Monitoring start date (MM/DD/YYYY)	03/1973		03/1973	03/1973	04/02/2010		
Current sampling	1:1		1:1	1:1	1:1		
frequency (e.g.1:3,							
continuous)							
Calculated sampling	N/A		N/A	N/A	N/A		
frequency							
(e.g. 1:3/1:1)	01/01/12/21		01/01/10/01	01/01/10/01	01/01/10/01		
Sampling season (MM/DD-MM/DD)	01/01-12/31		01/01-12/31	01/01-12/31	01/01-12/31		
Probe height (meters)	4.7		4.7	4.7	5.1		
Distance from	1.3		1.3	1.3	1.7		
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A	N/A		
obstructions on roof							
(meters)	37/4		NT/A	NY/4) NY/A		
Distance from	N/A		N/A	N/A	N/A		
obstructions not on							
roof (meters)				1			

Distance from trees	N/A	N/A	N/A	N/A
(meters) Distance to furnace or	N/A	N/A	N/A	N/A
incinerator flue	N/A	IN/A	IN/A	IN/A
(meters)				
Distance between	N/A	N/A	N/A	N/A
collocated monitors	IV/A	IV/A	11/1	IV/A
(meters)				
Unrestricted airflow	360°	360°	360°	360°
(degrees)	300	300	300	300
Probe material for	Teflon	Teflon	Teflon	N/A
reactive gases	TCHOIL	TCHOIL	TCHOIL	IV/A
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	8.4	11.4	9.2	N/A
reactive gases	0.7	11.7	7.2	11/12
(seconds)				
Will there be changes	No	No	No	No
within the next 18	110	110	110	No
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	N/A
comparison against	I W/ FA	14/74	14/74	IV/A
the annual PM2.5?				
(Y/N)				
Frequency of flow	N/A	N/A	N/A	N/A
rate verification for	14/21	14/11	17/11	11/21
manual PM samplers				
Frequency of flow	N/A	N/A	N/A	Monthly
rate verification for	11/11	1 1/11	1771	Ivioning
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	N/A
point QC check for				
gaseous instruments				
Last Annual	09/03/2015	09/03/2015	09/03/2015	N/A
Performance	07/03/2013	07/03/2013	07/03/2013	
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	06/21/2015,
flow rate audits for				12/05/2015
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				

Pollutant, POC	Continuous PM2.5, 3	Lead, 1	
Parameter code	88502	14129	
Basic monitoring	NAAQS	NAAQS	
objective(s)			
Site type(s)	Population Exposure	Population Exposure	
Monitor (type)	SLAMS	SLAMS	
Instrument	Met One BAM 1020	GMW 1200 TSP/	
manufacturer and		Hi-Q	
model			
Method code	731	110	

FRM/FEM/ARM/	Non-FEM	FRM	
other	NOII-FEIVI	FRIVI	
Collecting Agency	SCAQMD	SCAQMD	
Analytical Lab	N/A	SCAQMD	+
(i.e.weigh lab, toxics	IV/A	SCAQMD	
lab, other)			
Reporting Agency	SCAQMD	SCAQMD	
Spatial scale (e.g.	Neighborhood	Neighborhood	
micro, neighborhood)	<i>g</i>		
Monitoring start date	05/08/2009	09/1990	
(MM/DD/YYYY)			
Current sampling	1:1	1:6	
frequency (e.g.1:3,			
continuous)			
Calculated sampling	N/A	1:6	
frequency			
(e.g. 1:3/1:1)	01/01 10/21	01/01 10/01	
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	
Probe height (meters)	5.1	2.9	+
Distance from	1.7	2.9	
supporting structure	1.7	2.0	
(meters)			
Distance from	N/A	N/A	
obstructions on roof			
(meters)			
Distance from	N/A	N/A	
obstructions not on			
roof (meters)			
Distance from trees	N/A	N/A	
(meters)			
Distance to furnace or	N/A	N/A	
incinerator flue			
(meters) Distance between	N/A	N/A	
collocated monitors	IN/A	N/A	
(meters)			
Unrestricted airflow	360°	360°	
(degrees)	300	300	
Probe material for	N/A	N/A	
reactive gases			
(e.g. Pyrex, stainless			
steel, Teflon)			
Residence time for	N/A	N/A	
reactive gases			
(seconds)			
Will there be changes	No	No	
within the next 18			
months? (Y/N) Is it suitable for	N/A	N/A	
Is it suitable for comparison against	N/A	IN/A	
the annual PM2.5?			
(Y/N)			
Frequency of flow	N/A	Monthly	
rate verification for		,	
	1	1	<u> </u>

manual PM samplers			
Frequency of flow	Monthly	N/A	
rate verification for			
automated PM			
analyzers			
Frequency of one-	N/A	N/A	
point QC check for			
gaseous instruments			
Last Annual	N/A	N/A	
Performance			
Evaluation for			
gaseous parameters			
(MM/DD/YYYY)			
Last two semi-annual	06/21/2015,	4/17/2015,	
flow rate audits for	12/05/2015	11/06/2015	
PM monitors			
(MM/DD/YYYY,			
MM/DD/YYYY)			

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.

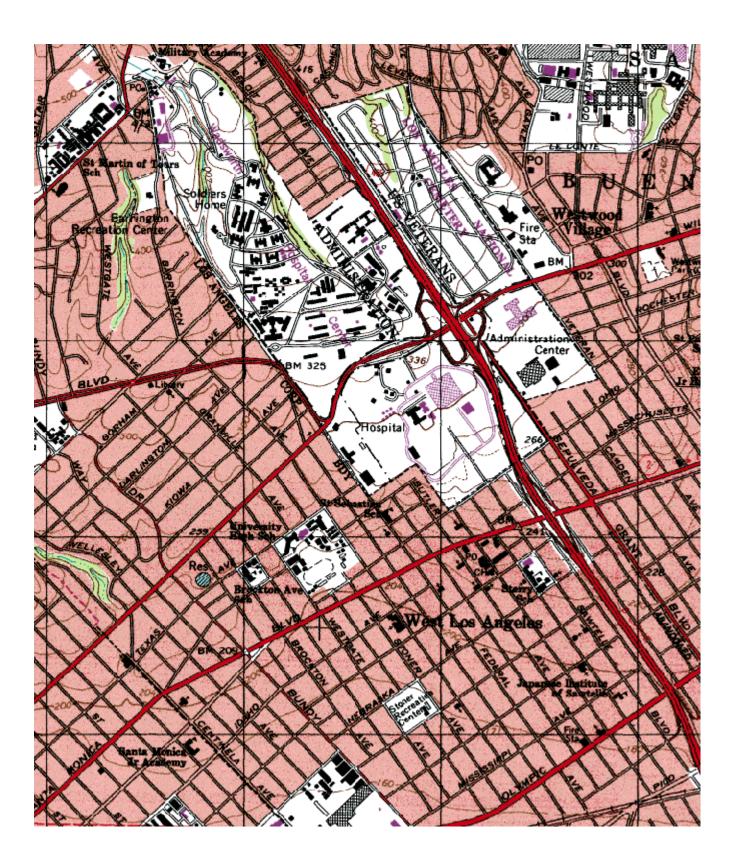
Quality Assurance Site Survey Report for Los Angeles-VA Hospital

Last updated: May 15, 2016



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060370113	70091	05/1984	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
Wilshire Blvd & Sawtelle Blvd Los Angeles, CA 90025	Los Angeles	South Coast	34° 03' 03"N	118° 27' 23"W	92



Detailed Site Information

Local site name		Los Ang	eles-VA Hospital				
AQS ID		0603701	*				
GPS coordinates (decimal degrees)			34° 03' 03" Longitude:	118° 27' 22"			
` •			Wilshire Blvd & Sawtelle Blvd, Los Angeles, CA 90025				
County	Los Ange						
,		15	ingeres				
Traffic count (AADT, y		1,000 / 2	012				
Groundcover		Dirt/Grass					
(e.g. asphalt, dirt, sand)							
Representative statistical area name		31080-Los Angeles-Long Beach-Anaheim, MSA					
(i.e. MSA, CBSA, other	r)						
Pollutant, POC	Carbon Mon	oxide, 1	Nitrogen Dioxide, 1	Ozone, 1			
Parameter code	42101		42602	44201			
Basic monitoring	NAAQS		NAAQS	NAAQS			
objective(s)							
Site type(s)	Population E	Exposure	Highest	Population Exposure			
	<u> </u>		Concentration				
Monitor (type)	SLAMS		SLAMS	SLAMS			
Instrument	Horiba APM	IA 360	Thermo 42i	API/Teledyne 400E			
manufacturer and							
model							
Method code	106		074	087			
FRM/FEM/ARM/	FRM		FRM	FEM			
other			CCAOMP	CCAOMP			
Collecting Agency	SCAQMD		SCAQMD	SCAQMD			
Analytical Lab	N/A		N/A	N/A			
(i.e.weigh lab, toxics							
lab, other)	ag to the		GG 1 0 1 1 1 1	act or the			
Reporting Agency	SCAQMD		SCAQMD	SCAQMD			
Spatial scale (e.g.	Neighborhood		Middle	Neighborhood			
micro, neighborhood)	05/1094		05/1984	05/1984			
Monitoring start date (MM/DD/YYYY)	05/1984		05/1984	03/1984			
Current sampling	1:1		1:1	1:1			
frequency (e.g.1:3,	1;1		1.1	1.1			
continuous)							
Calculated sampling	N/A		N/A	N/A			
frequency	11/71			· · ·			
(e.g. 1:3/1:1)							
Sampling season	01/01-12/31		01/01-12/31	01/01-12/31			
(MM/DD-MM/DD)							
Probe height (meters)	4.2		4.2	4.2			
Distance from	1.7		1.7	1.7			
supporting structure							
(meters)							
Distance from	N/A		N/A	N/A			
obstructions on roof							
(meters)	77/4		77/4	27/4			
Distance from	N/A		N/A	N/A			
obstructions not on							
roof (meters)	<u></u>				1		

D:	1 22	1 22	100	
Distance from trees	23	23	23	
(meters)				
Distance to furnace or	N/A	N/A	N/A	
incinerator flue				
(meters)				
Distance between	N/A	N/A	N/A	
collocated monitors				
(meters)				
Unrestricted airflow	360°	360°	360°	
(degrees)				
Probe material for	Teflon	Teflon	Teflon	
reactive gases				
(e.g. Pyrex, stainless				
steel, Teflon)				
Residence time for	6.9	7.2	7.4	
reactive gases	0.7	7.2	/	
(seconds)				
Will there be changes	No	No	No	
within the next 18	110	110	110	
months? (Y/N)				
Is it suitable for	N/A	N/A	N/A	
comparison against	IN/A	IN/A	IN/A	
the annual PM2.5?				
(Y/N)	27/4	27/4	27/4	
Frequency of flow	N/A	N/A	N/A	
rate verification for				
manual PM samplers	27/1	27/1	27/	
Frequency of flow	N/A	N/A	N/A	
rate verification for				
automated PM				
analyzers				
Frequency of one-	Nightly	Nightly	Nightly	
point QC check for				
gaseous instruments				
Last Annual	06/16/2015	06/16/2015	06/16/2015	
Performance				
Evaluation for				
gaseous parameters				
(MM/DD/YYYY)				
Last two semi-annual	N/A	N/A	N/A	
flow rate audits for				
PM monitors				
(MM/DD/YYYY,				
MM/DD/YYYY)				
/	I.	1	1	L