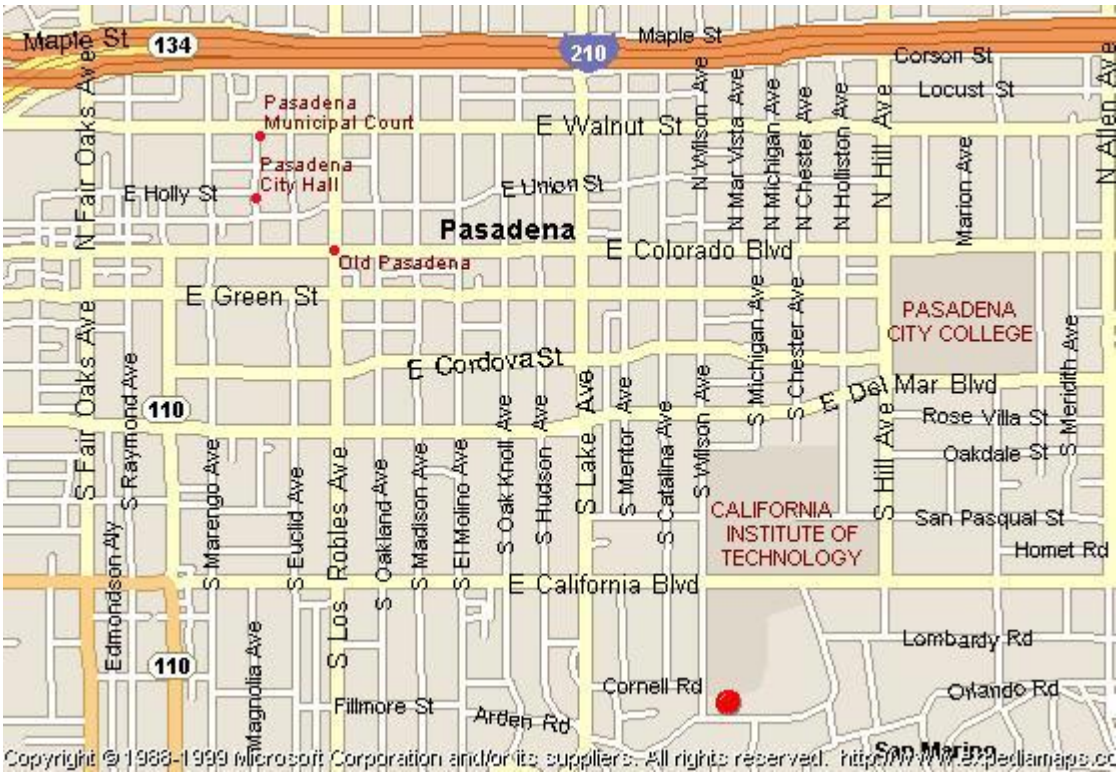
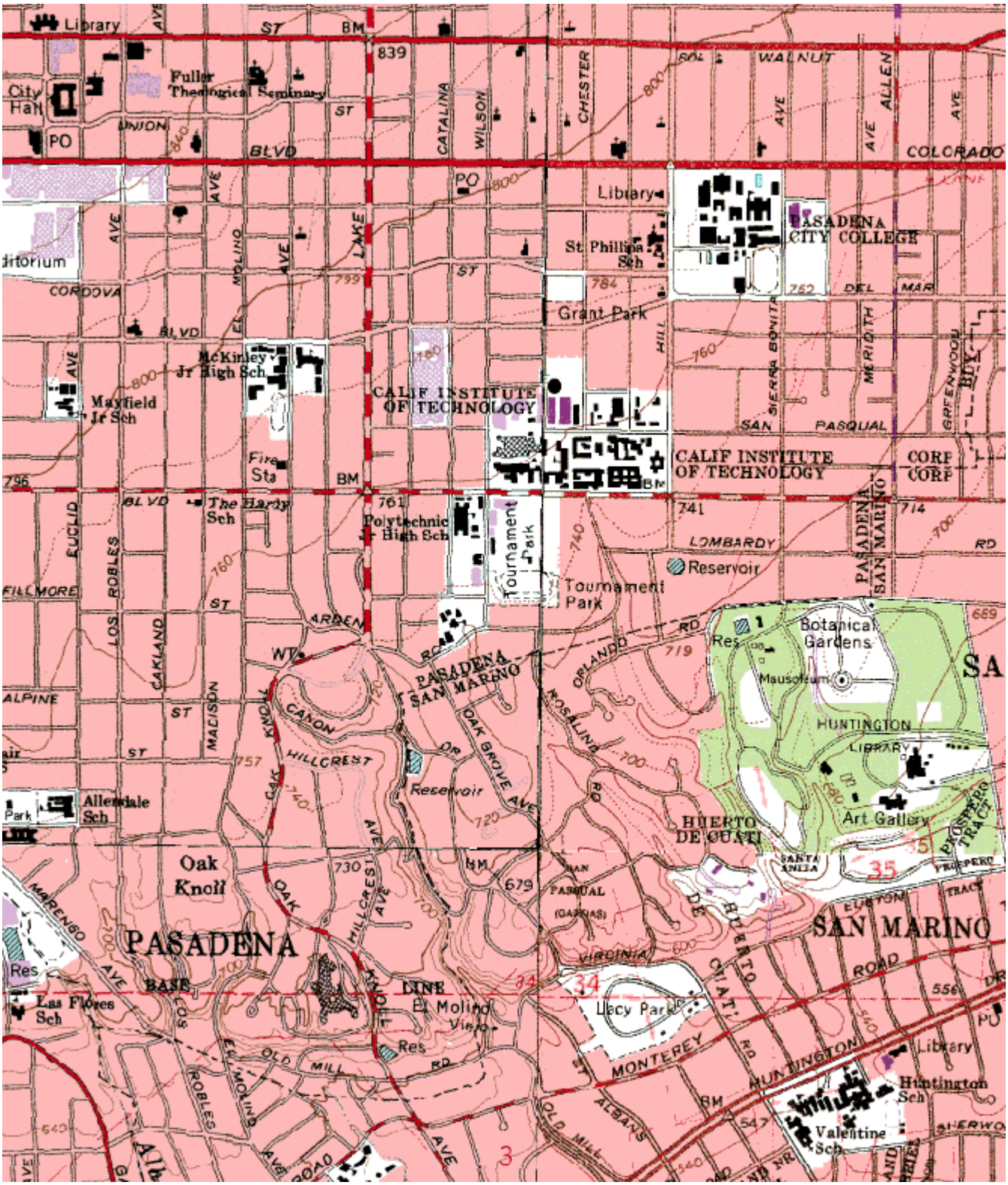
Quality Assurance
Site Survey Report for Pasadena

Last updated May, 2011



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

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


Library
City Hall
PO
Fuller Theological Seminary
UNION
BLVD
ST
BM
839
CATALINA
WILSON
CHESTER
WALNUT
COLORADO
AVE
ALLEN
PO
Library
St Philips Sch
PASADENA CITY COLLEGE
CORDOVA
Grant Park
DEL MAR
SIERRA BONITA
MERIDITH
GREENWOOD
McKinley Jr High Sch
Mayfield Jr Sch
CALIF INSTITUTE OF TECHNOLOGY
SAN PASQUAL
Fire Sta
The Hardy Sch
Polytechnic Jr High Sch
Tournament Park
LOMBARDY
Reservoir
PASADENA SAN MARINO
EUCLID
LOS ROBLES
FILLMORE
OAKLAND
MADISON
ARDEN
ROSALIND
ORLANDO
Botanical Gardens
Mausoleum
HUNTINGTON
LIBRARY
Art Gallery
HUERTO DE CUATI
SANTA ANITA
PROSPECT TRACK
CANON
OAK KNOLL
HILLCREST
OAK GROVE AVE
Reservoir
Allendale Sch
Oak Knoll
PASADENA
SAN MARINO
MARENGO
Las Flores Sch
BASE LINE
El Molino Viejo
Res
OLD MILL
VIRGINIA
ROAD
Lacy Park
MONTEREY
HUNTINGTON
Library
Huntington Sch
Valentine Sch
ALBANS

Site Survey Report

Siting Information

Site Name: Pasadena	Date: 5/26/11	State Code: 70088	AIRS Number: 060372005
Address: 752 S Wilson Ave Pasadena, CA 91702	Latitude: 34° 07' 57"	Longitude: 118° 07' 37"	Elevation (m): 226
	Senior AQIS: Albert Dietrich	Site Technician: Paul Mayo	Site Phone: (626) 792-4316
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: W
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 66 - 70 meters	Region: Level	Probe Last Cleaned: 6/11
	Count (Veh/Day): <5000	**QA Manual**	Manifold Clean: Yes
Meteorology	**Non-vehicular Local Sources**	Approved: Yes	Cleaning Schedule: 6 Months
Located With Instruments: Yes	Description: None	Agency: South Coast AQMD	Autocalibrator Type: Environics 100
	Distance: N/A	Urbanization: Suburban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Grass	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site name	Pasadena			
AQS ID (AIRS #)	060372005			
GIS coordinates	Latitude: 34° 07’ 57” Longitude: 118° 07’ 37”			
Location	Cal Tech Campus – on Track in Trailer			
Address	752 S Wilson Ave, Pasadena, CA 91702			
County	Los Angeles			
Distance to road	66 meters			
Traffic count	< 5000 veh/day			
Groundcover	Grass			
Representative area	31100-Los Angeles-Long Beach-Santa Ana, CA, MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM2.5 RAAS
Site type	Primary	Primary	Primary	Primary
Monitor objective	Population Oriented	Highest Concentration	Population Oriented	Population Oriented
Spatial scale	Middle Scale	Middle Scale	Neighborhood Scale	Neighborhood Scale
Instrument type	Primary	Primary	Primary	Primary
Method code	N/A	N/A	N/A	N/A
POC code	1	1	1	1
Instrument manufacturer/model	Horiba APMA 370	Thermo 42i	Teledyne 400E	Sierra Andersen RAAS PM2.5
Serial #	EWU6D0000	CM083620043	533-S	00360
Property #	E000359	16769	N/A	E000002
Last calibration date	2/24/11	4/28/11	2/10/11	3/4/11
Analysis method	Non dispersive infrared	Chemiluminescence	UV Photometric	Gravimetric
Start date	04/82	04/82	04/82	04/82
Operation schedule	1:1	1:1	1:1	1:3
Sampling season	All Year	All Year	All Year	All Year
Probe height	5.0	5.0	5.0	2.8
Distance from supporting structure	2.1	2.1	2.1	1.9
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	6	6	6	6
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	5.2	5.7	6.2	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	Yes

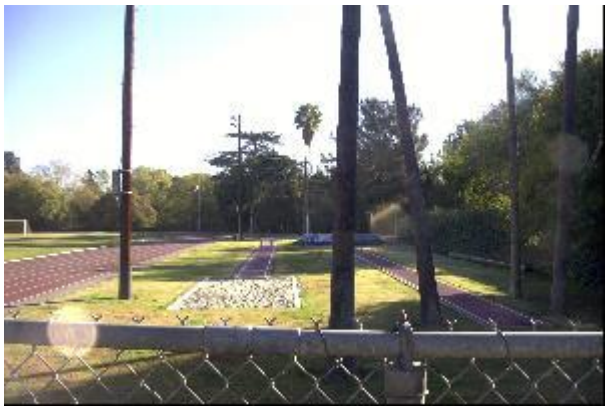
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A
Date of last annual performance evaluation	8/19/10	8/19/10	8/19/10	N/A
Dates of semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	5/25/10
	N/A	N/A	N/A	10/22/10
Date of past year's PM2.5-PEP audit	N/A	N/A	N/A	6/2/11
Date of past year's Pb-PEP audit	N/A	N/A	N/A	N/A

Pollutant	TSP SO4			
Site type	SLAMS			
Monitor objective	Population Oriented			
Spatial scale	Neighborhood Scale			
Instrument type	CARB SO4			
Method code	N/A			
POC code	1			
Instrument manufacturer/model	GMW SSI			
Serial #	N/A			
Property #	1541 (C/N)			
Last calibration date	1/4/11			
Analysis method	Gravimetric			
Start date	04/82			
Operation schedule	1:6			
Sampling season	All Year			
Probe height	2.8			
Distance from supporting structure	1.9			
Distance from obstructions on roof	N/A			
Distance from obstructions not on roof	N/A			
Distance from trees	6			
Distance to furnace or incinerator flue	N/A			
Distance between collocated monitors	N/A			
Unrestricted airflow	Yes			
Probe material	N/A			

Residence time	N/A			
Will there be changes within the next 18 months?	Yes			
Is it suitable for comparison against the annual PM2.5?	No			
Frequency of flow rate verification for manual PM samplers audit	Monthly			
Frequency of flow rate verification for automated PM analyzers audit	N/A			
Frequency of one-point QC check (gaseous)	N/A			
Date of last annual performance evaluation	N/A			
Dates of semi-annual flow rate audits for PM monitors	Scheduled			
	Scheduled			
Date of past year's PM2.5-PEP audit	N/A			
Date of past year's Pb-PEP audit	N/A			

Pasadena
Site Photos

Looking North from the probe.



Looking East from the probe.

Looking South from the probe.

Looking West from the probe.

Pasadena
Site Photos (Cont.)

Looking at the probe from the North.

Looking at the probe from the East.

Looking at the probe from the South.

Looking at the probe from the West.