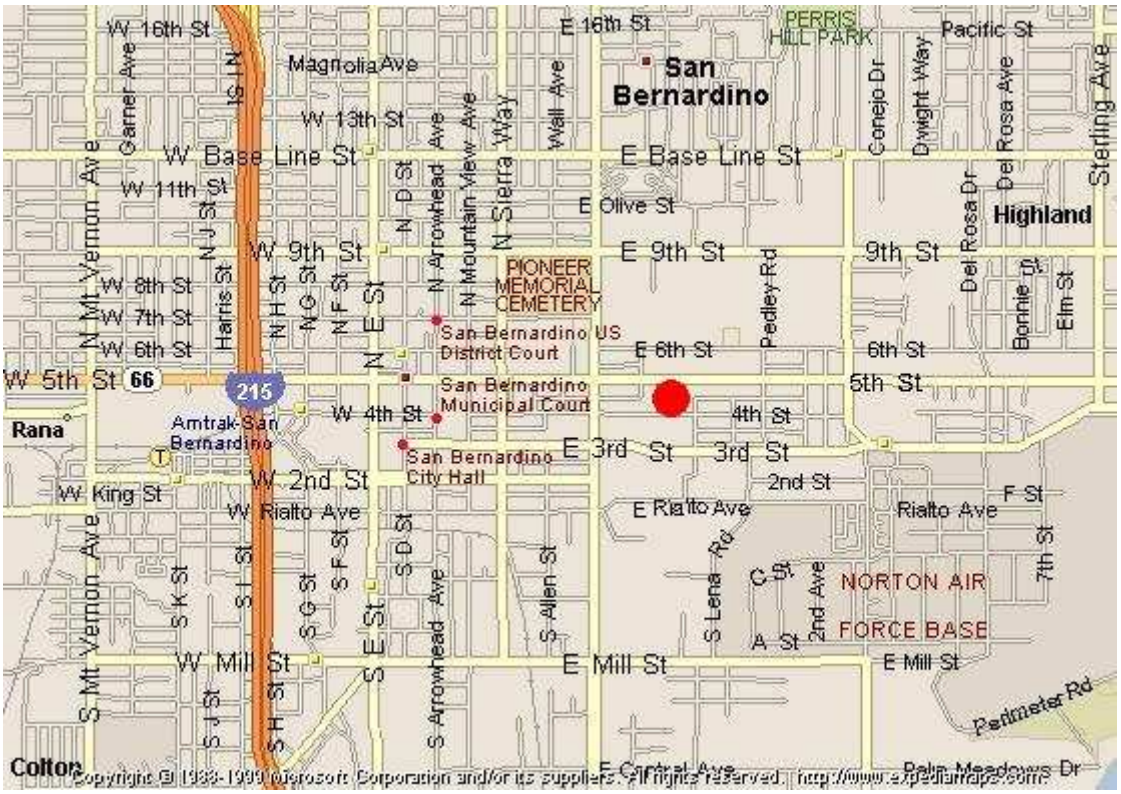
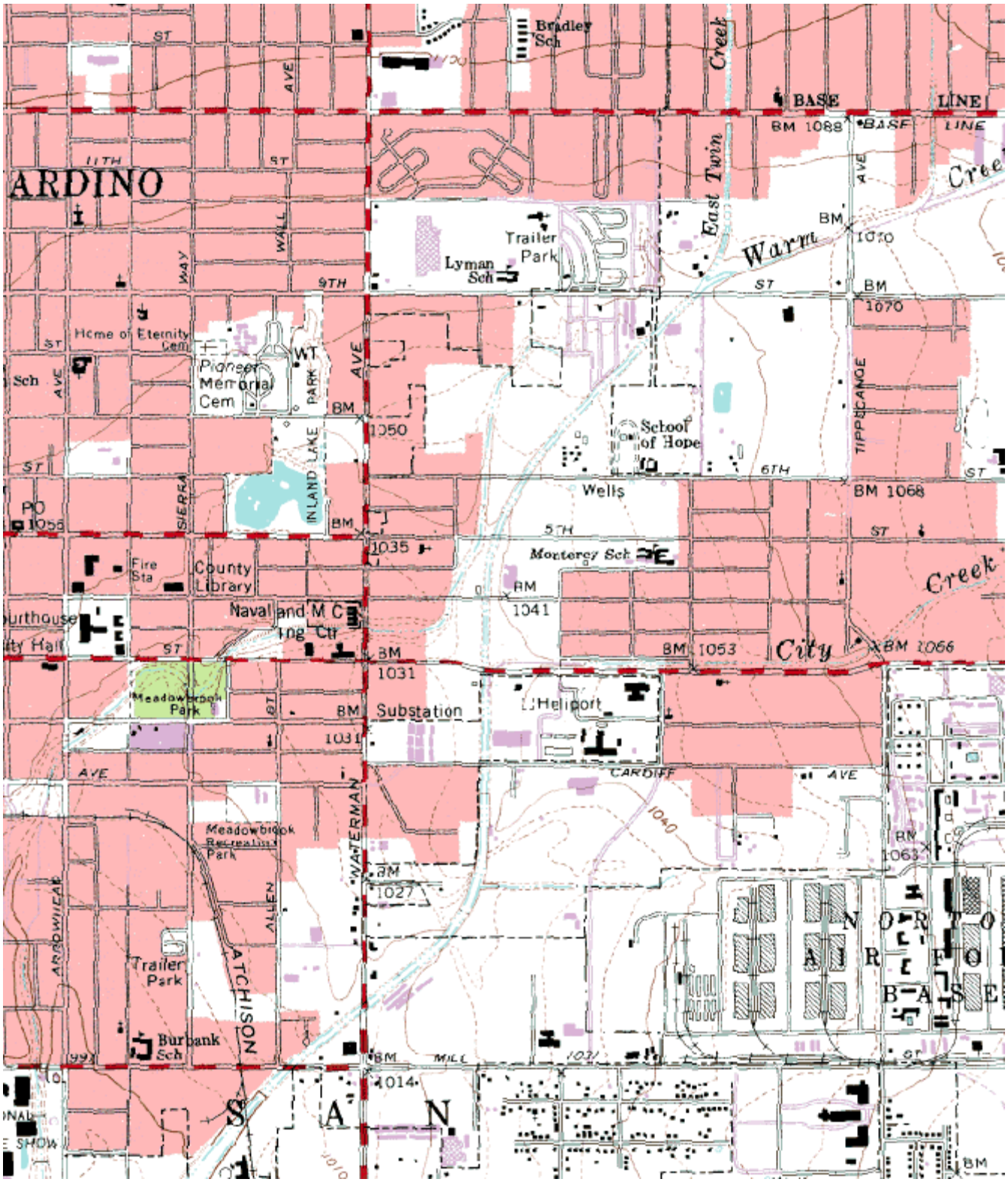
Quality Assurance
Site Survey Report for San Bernardino

Last updated May 2008



AIRS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code
060719004	36203	01/03/99	South Coast AQMD (061)

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


ARDINO
Bradley Sch
East Twin Creek
BASE LINE
BM 1088
Trailer Park
Lyman Sch
Warm Creek
BM 1070
Home of Eternity Cem
Pioneer Memorial Cem
WT
BM 1050
School of Hope
Wells
BM 1068
PO
Fire Sta
County Library
Monterey Sch
BM 1041
Naval and M C Trng Ctr
BM 1035
BM 1053
City Creek
BM 1066
Meadowbrook Park
Substation
Heliport
BM 1031
CARDIFF AVE
Meadowbrook Recreation Park
BM 1027
WATERMAN
ARROWHEAD
ALLEN
ATCHISON
Trailer Park
Burbank Sch
BM 1014
NORTON AIR FORCE BASE
SAN

Site Survey Report

Siting Information

Site Name: San Bernardino	Date: 05/14/08	State Code: 36203	AIRS Number: 060719004
Address: 24302 E. 4th St San Bernardino, CA 92410	Latitude: 34° 06' 24"	Longitude: 117° 16' 26"	Elevation (m): 316
	Senior AQIS: Keith Brown	Site Technician: Richard Trzcinski	Site Phone: (909) 888-3051
Operating Agency: South Coast AQMD			

General Siting Conditions

Station Temperature	**Traffic**	**Topography**	Predominant Wind Direction: E
Controlled: Yes	Description: Residential	Site: Level	Arc Air Flow (Deg): 360 Degrees
Recorded: Yes	Distance: 15 meters	Region: Level	Probe Last Cleaned: 04/09/08
	Count (Veh/Day): 20000	**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	Auto calibrator Type: Environic 100
	Distance: N/A	Urbanization: Urban	Site Survey Complete: Yes
	Direction: N/A	Ground Cover: Asphalt	Logbook Up To Date: Yes

Action Items

Comments

Detailed Site Information

Site Name	San Bernardino			
AQS ID (AIRS #)	060719004			
GIS coordinates	Latitude: 34° 06’ 24” Longitude: 117° 16’ 26”			
Location	Elementary School			
Address	24302 E 4th St, San Bernardino, CA 92410			
County	San Bernardino			
Dist. to road	15 meters			
Traffic count	20,000 veh/day			
Groundcover	Asphalt			
PEP audit?				
NPAP audit?	11/28/07			
Flow audit?	02/07			
Representative Area	40140-Riverside-San Bernardino-Ontario, CA MSA			
Pollutant	Carbon Monoxide	Nitrogen Dioxide	Ozone	PM10
Monitor objective	REPRESENTATIVE CONCENTRATION	REPRESENTATIVE CONCENTRATION	HIGHEST CONCENTRATION	HIGHEST CONCENTRATION
Spatial scale	Middle Scale	Urban Scale	Neighborhood Scale	Neighborhood Scale
Sampling method	Horiba APMA 360	Horiba APMA 360	API-Teledyne 400E	TEOM
Serial #	577583094	8417870101	511-S	20005938
Property #	16477			
Last Calibration Date	01/30/08	12/02/07	02/13/08	02/05/08
Analysis method	N/A	N/A	N/A	N/A
Start date	05/86	05/86	05/86	01/03/99
Operation schedule	1:1	1:1	1:1	Cont
Sampling season	All Year	All Year	All Year	All Year
Probe height	4.8	4.8	4.8	2.4
Distance from supporting structure	1.4	1.4	1.4	1.4
Distance from obstructions on roof	N/A	N/A	N/A	N/A
Distance from obstructions not on roof	N/A	N/A	N/A	N/A
Distance from trees	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Unrestricted airflow	Yes	Yes	Yes	Yes
Probe material	Teflon	Teflon	Teflon	N/A
Residence time	< 20	< 20	< 20	N/A
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes
Is it suitable for comparison against the annual PM2.5?	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	Monthly
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation (gaseous)	02/07	02/07	02/07	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	03/06

Pollutant	TSP (Lead)	PM2.5		
Monitor objective	REPRESENTATIVE CONCENTRATION	REPRESENTATIVE CONCENTRATION		
Spatial scale	Neighborhood Scale	Neighborhood Scale		
Sampling method	GMW	Andersen 300 RAAS		
Serial #	4957	00208		
Property #		E000014		
Last Calibration Date	09/10/07	06/05/08		
Analysis method	Weighed by SCAQMD lab	Weighed by SCAQMD lab		
Start date		01/03/99		
Operation schedule	1:6	1:3		
Sampling season	All Year	All Year		
Probe height	2.0	2.0		
Distance from supporting structure	1.0	1.0		
Distance from obstructions on roof	N/A	N/A		
Distance from obstructions not on roof	N/A	N/A		
Distance from trees	N/A	N/A		
Distance to furnace or incinerator flue	N/A	N/A		
Distance between collocated monitors	N/A	N/A		
Unrestricted airflow	Yes	Yes		
Probe material	N/A	N/A		
Residence time	N/A			
Will there be changes within the next 18 months?	Yes	Yes		
Is it suitable for comparison against the annual PM2.5?	N/A	Yes		
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly		

Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A		
Frequency of one-point QC check (gaseous)	N/A	N/A		
Last Annual Performance Evaluation (gaseous)	N/A	N/A		
Last two semi-annual flow rate audits for PM monitors	05/07, 11/07	05/07, 11/07		

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.