

Example Particulate Matter Filter Data AQS Reports:

This is for Federal Reference Method (FRM) which utilizes filters.

1. **AMP 256 QA Data Quality Indicator Report** - displays measurement QA checks and data quality assessments statistics required by 40 CFR Part 58 Appendix A.
2. **AMP 430 Data Completeness Report** - generates a monthly count of the number of observations conducted by a monitor across a given time frame. It also calculates the percentage of observations required within the month. The report does not provide concentration levels. It only provides an indication of the sampling activity of a monitor.
3. **AMP 350 Raw Data Report** - lists ambient air quality samples that are stored in AQS. These samples may consists of the reported values, generated data (such as the running averages), or daily summaries.
4. EPA example data graphs (from tool at epa.gov/airquality/airdata/ad_viz.html).

Useful links for AQS reports:

Data certification web page has AMP 600 and AMP 450NC examples at arb.ca.gov/aaqm/qa/pqao/certification/cert.htm

EPA AQS terminology - www2.epa.gov/sites/production/files/2015-10/documents/aqs_data_dictionary.pdf

Link to AQS - www2.epa.gov/aqs

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 DATA QUALITY INDICATOR REPORT

Flow Rate Verifications (FRV)

Oct. 9, 2015

Pollutant: PM10 Total 0-10um STP (81102) **PQAO:** California Air Resources Board (0145)

App A: Y

Bias

Year	Reg	St	Site ID	POC	MT	Begin Date	End Date	# Obs Required	# Obs	Average % D	% Complete	Bias UB
2015	09	CA	06-111-2002	3	S	01-JAN-15	30-JUN-15	6	13	0.83	100	+ 1.13
2015			SUMMARY			01-JAN-15	30-JUN-15	6	13	0.83	100	+ 1.13
SUMMARY			SUMMARY			01-JAN-15	30-JUN-15	6	13	0.83	100	+ 1.13

Pollutant: PM2.5 - Local Conditions (88101) **PQAO:** California Air Resources Board (0145)

App A: Y

Year	Reg	St	Site ID	POC	MT	Begin Date	End Date	# Obs Required	# Obs	Average % D	% Complete	Bias UB
2015	09	CA	06-111-2002	3	S	01-JAN-15	30-JUN-15	6	13	0.23	100	+/- 0.56
2015	09	CA	06-111-2002	4	S	01-JAN-15	30-JUN-15	6	14	0.77	100	+ 1.07
2015			SUMMARY			01-JAN-15	30-JUN-15	12	27	0.51	100	+/- 0.77
SUMMARY			SUMMARY			01-JAN-15	30-JUN-15	12	27	0.51	100	+/- 0.77

Note for PM10 --
 The FRVs are required to be reported to AQS for continuous PM10 only.

Percent Complete -
 Are the number of observations greater than the observations required?

DATA QUALITY INDICATOR REPORT

Semi-Annual Flow Rate Audits

Oct. 9, 2015

Pollutant: PM10 Total 0-10um STP (81102)

PQAO: California Air Resources Board (0145)

APP A?:Y

Year	Reg	St	AQS Site ID	POC	MT	Begin Date	End Date	# Req	#Q	% Complete	Criteria	Obs / Q				Avg % d	Conf. Limits		% Between Conf Lmt
											Met?	1	2	3	4		Lower	Upper	
2015	09	CA	06-111-2002	3	S	01-JAN-15	30-JUN-15	1	1	100	Y	0	1	0	0	0.18	-0.40	2.05	100
2015			SUMMARY			01-JAN-15	30-JUN-15	1	1	100	100	0	1	0	0	0.18	-0.40	2.05	100
SUMMARY			SUMMARY			01-JAN-15	30-JUN-15	1	1	100	100	0	1	0	0	0.18	-0.40	2.05	100

Pollutant: PM2.5 - Local Conditions (88101)

PQAO: California Air Resources Board (0145)

APP A?:Y

Year	Reg	St	AQS Site ID	POC	MT	Begin Date	End Date	# Req	#Q	% Complete	Criteria	Obs / Q				Avg % d	Conf. Limits		% Between Conf Lmt
											Met?	1	2	3	4		Lower	Upper	
2015	09	CA	06-111-2002	3	S	01-JAN-15	30-JUN-15	1	1	100	Y	0	1	0	0	-0.60	-0.67	1.14	100
2015	09	CA	06-111-2002	4	S	01-JAN-15	30-JUN-15	1	1	100	Y	0	1	0	0	-0.06	-0.43	1.98	100
2015			SUMMARY			01-JAN-15	30-JUN-15	2	2	100	100	0	2	0	0	-0.33	-0.67	1.70	100
SUMMARY			SUMMARY			01-JAN-15	30-JUN-15	2	2	100	100	0	2	0	0	-0.33	-0.67	1.70	100

Look for "Y" for "Yes, the criteria is met." Act on any "N" notations.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 DATA COMPLETENESS REPORT

AMP 430 - FRM Filter Data
 Complete year of data

Aug. 17, 2015

MONITORS REPORTING

DATE RANGE: JAN. 01, 2014 THRU DEC. 31, 2014
 REGION: (09) SAN FRANCISCO
 STATE: California

REP_ORG: California Air Resources Board
 MONITOR TYPE: SLAMS

The reporting organization for filters are the labs or the District if they have their own lab.

SITE ID	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
CITY	ADDRESS			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
06-029-0015	81102 <u>PM10 Total 0-10um STP</u>	1	7	5	4	4	5	5	5	5	4	5	4	4	5	55
Ridgecrest			063	100%	80%	80%	100%	100%	100%	100%	80%	100%	80%	80%	83%	90%
100 WEST CALIFORNIA AVE, RIDGECREST, CA																
06-029-0017	81102 <u>PM10 Total 0-10um STP</u>	1	7	5	4	5	5	5	5	5	4	5	5	5	6	59
			141	100%	80%	100%	100%	100%	100%	100%	80%	100%	100%	100%	100%	97%
3147 Highway 178, Canebrake																

Do the number of samples reported match the number sent to the lab?

Monthly and yearly completeness should be at least 75% for EPA and 85% for ARB's requirements.

AMP 430 - FRM Filter Data
 Complete year of data

Aug. 17, 2015

MONITORS REPORTING

DATE RANGE: JAN. 01, 2014 THRU DEC. 31, 2014
 REGION: (09) SAN FRANCISCO
 STATE: California

REP ORG: San Diego County Air Pollution Control District
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
06-029-0015 Ridgecrest 100 WEST CALIFORNIA AVE, RIDGECREST, CA	<u>PM2.5 - Local Conditions</u>			5	5	5	5	5	5	5	5	4	4	4	6	58
				100%	100%	100%	100%	100%	100%	100%	100%	80%	80%	80%	100%	95%

DRAFT

Monthly and yearly completeness should be at least 75% for EPA and 85% for ARB's requirements.

AMP 350 - FRM Filter Data
Complete year of data

(88101) PM2.5 - Local Conditions

SITE ID: 06-029-0015 POC: 1
 COUNTY: (029) Kern
 CITY: (60704) Ridgecrest
 SITE ADDRESS: 100 WEST CALIFORNIA AVE, RIDGECREST, CA
 SITE COMMENTS: CARB SITE NUMBER 15-300.
 MONITOR COMMENTS:

STATE: (06) California
 AQCR: (033) SOUTHEAST DESERT
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:
 LATITUDE: 35.6210900009
 LONGITUDE: -117.67296
 UTM ZONE:
 UTM NORTHING:
 UTM EASTING:
 ELEVATION-MSL: 701
 PROBE HEIGHT: 3

Parameter and site

SUPPORT AGENCY: (0575) Kern County APCD
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (118) R & P Model 2025 PM2.5 Sequential
 PQAO: (0145) California Air Resources Board

REPORT FOR: 2014

DURATION: 24 HOUR
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									4.9	AJ	.7	4.6
2								4.1				
3												
4		4.2				5.8	5.3					
5	8.8			3.7	5.2							
6			3.8									
7											3.2	10.3
8									4.3	5.5		
9								10.5				
10		1.5				7.8	3.7					
11	8.3			5.1	2.5							
12			1.7									
13									5.2		4.1	2.3
14										3.8		
15								2.9 1				
16		5.5				5.6	5.8					
17	5.0			6.3	4.4							
18			1.7									
19											AJ	10.0
20									3.5	5.6		
21								5.5				
22		4.2				3.2	6.2					
23	4.2			3.1	4.2							
24			4.2									
25											6.5	1.7
26									AJ	2.6		
27								4.2				
28		2.2				5.2	5.5					
29	6.2			3.2	6.1							
30			2.3									
31												3.0
NO.:	5	5	5	5	5	5	5	5	4	4	4	6
MAX:	8.8	5.5	4.2	6.3	6.1	7.8	6.2	10.5	5.2	5.6	6.5	10.3
MEAN:	6.50	3.52	2.74	4.28	4.48	5.52	5.30	5.44	4.48	4.38	3.63	5.32
ANNUAL OBSERVATIONS:		58		ANNUAL MEAN:	4.67	ANNUAL MAX:	10.5					

Look for high and low numbers, also look for missing numbers. Compare this site with others in the area.

Check null and qualifier codes to see if they are correct

Monthly maximum and mean

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.



Data Graph FRM Filter Data

Complete year of data

http://www3.epa.gov/airquality/airdata/ad_viz_plotval.html

AirData



Concentration Plot

Make a time series plot for a specific location and time period. This tool displays daily air quality summary statistics for the criteria pollutants by monitor. You can choose to plot all monitors in a city or county, or you can select specific monitors.

1. Pollutant

PM2.5

2. Period

from 2014 to 2014 (maximum 25 years)

3. Geographic Area

Select a City (defined as CBSA) ...

-- or --

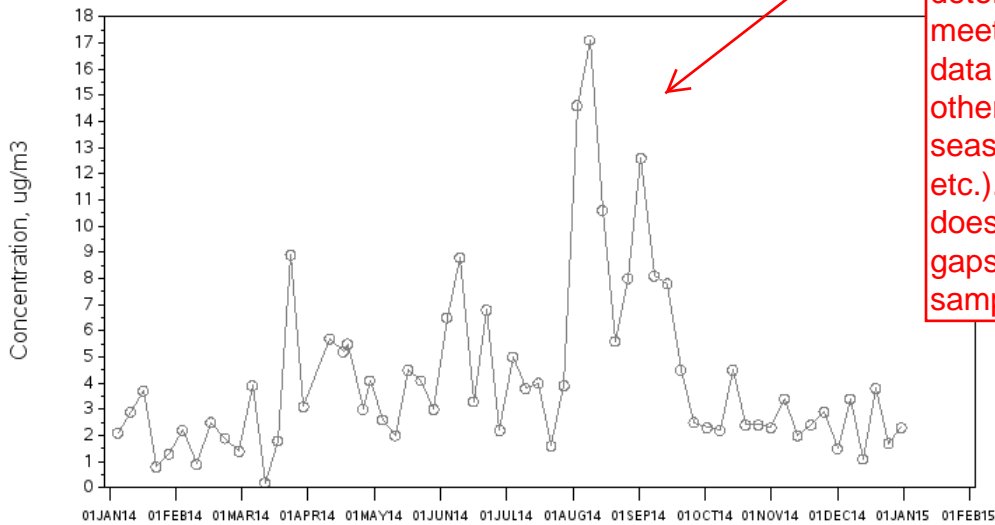
CA - Lake

4. Monitor Site

All Sites
060333001

Daily Mean PM2.5 Concentrations from 01/01/14 to 12/31/14

Parameter: PM2.5 - Local Conditions (Applicable standard is 35 ug/m3)
 CBSA: Clearlake, CA
 County: Lake
 State: California
 AQS Site ID: 06-033-3001, poc 1



Seasonal pattern or pollution event?
 - Evaluate plot to determine if it matches the data submitted for AQS upload for confirmation.
 - For validation determine if plot/data meets expectations (if data matches events, other sites, and seasonal patterns, etc.). For PM, this plot does not display data gaps due to varying sampling frequencies.

Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>
 Generated: January 8, 2016

The following data link is active for the next 10 minutes, after which you must resubmit your query.
[Download CSV \(spreadsheet\)](#)

Last updated on 9/11/2015