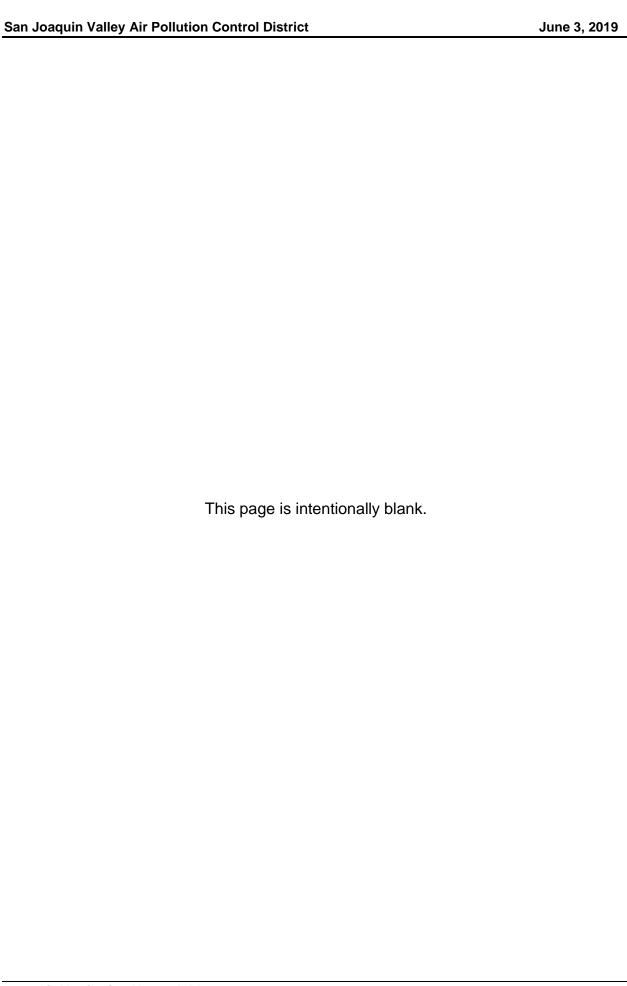


# 2019 Air Monitoring Network Plan



# DRAFT San Joaquin Valley Air Pollution Control District 2019 Air Monitoring Network Plan June 3, 2019



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# The District's Core Values Exhibited in the Air Monitoring Network

## \* Protection of Public Health \*

The District uses data collected from the air monitoring network to provide real-time air quality data to the public through the Real-Time Air Advisory Network (RAAN), generate daily air quality forecasts, and when needed, issue health advisories. The District also uses data collected from the Valley's air monitoring network as the basis for long-term attainment strategies and to track progress towards meeting federal health-based air quality standards.

# \* Active and effective air pollution control efforts with minimal disruption to the Valley's economic prosperity \*

The District uses air monitoring data to help establish strategies for reaching attainment of federal healthbased air quality standards.

# \* Outstanding Customer Service \*

# \* Accountability to the public \*

The District's website provides easy public access to data from the Valley's real-time air monitors, and through the RAAN system, provides notifications to the public when air quality reaches unhealthy levels.

The public can also access historical air quality information through the District's website.

# \* Open and transparent public processes \*

In addition to making air quality data available in real-time, the District uses air quality data in a variety of publicly available documents and reports. The District also conducts a public review period for annual monitoring network plans.

# \* Respect for the opinions and interest of all Valley residents \*

The District has actively made daily air quality information available to Valley residents in a variety of formats, including the District website, the RAAN system, the daily air quality forecast, and the media. The District considers public interests in establishing new air monitoring stations.

# \* Ingenuity and innovation \*

The District strives to use new and improved air monitoring techniques and equipment as approved by the EPA. The District uses the latest science when considering locations for air monitoring stations, and in turn, the data collected from the air monitoring network contributes to ongoing scientific evaluations.

# \* Continuous improvement \*

Through the annual air monitoring network plan, the District evaluates the air monitoring network for opportunities for better data collection and greater efficiency. Throughout the year, the District continually seeks out opportunities to improve the air monitoring network and its service to the public while meeting federal requirements.

# \* Recognition of the uniqueness of the San Joaquin Valley \*

The San Joaquin Valley is an expansive and diverse area. The District strives to site its air monitoring stations in locations that represent each region of the Valley.

# \* Effective and efficient use of public funds \*

The District makes the most of limited resources by structuring the air monitoring network in a way that optimizes personnel time and funding for instruments. The result is a robust air monitoring network that helps the Valley reach its air quality goals without unnecessary expenditures.

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2019 Air Monitoring Network Plan	

### **EXECUTIVE SUMMARY**

The San Joaquin Valley Air Pollution Control District (SJVAPCD or District) operates an extensive network of air pollution monitors throughout the San Joaquin Valley (Valley) to support its mission of improving and protecting public health. District staff use hourly readings from real-time monitors to communicate the state of the air quality to Valley residents. Through programs and venues such as the Real-Time Air Advisory Network (RAAN), the daily air quality forecast, the District and California Air Resources Board (CARB) websites, and Valley media, residents are able to obtain air quality information that can help them with their activity planning. The District also uses real-time air quality data to manage prescribed burning, hazard reduction burning, agricultural burning, and residential wood burning to ensure these activities do not result in adverse air quality impacts.

As part of the District's long-term efforts to improve public health, air monitors collect data that is rigorously analyzed by laboratory technicians and District staff. This monitoring data determines the Valley's air quality and is fundamental in the Valley's effort to improve air quality and achieve attainment of the Environmental Protection Agency's (EPA's) health-based ambient air quality standards as quickly as possible.

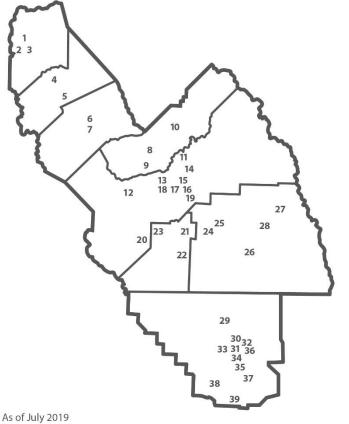
The Valley covers an area of 23,490 square miles, and is prone to one of the most challenging air quality problems in the nation. The Valley is home to 4,000,000 residents and includes several major metropolitan areas, vast expanses of agricultural land, industrial sources, highways, and schools. The Valley is designated as an attainment area for the federal Lead (Pb), Nitrogen Dioxide (NO2), Sulfur Dioxide (SO2), and Carbon Monoxide (CO) National Ambient Air Quality Standards (NAAQS or standards). In addition, the Valley is designated as an attainment/maintenance area for the PM10 NAAQS (particulate matter less than 10 microns in diameter). The Valley is designated as a nonattainment area for federal PM2.5 and ozone (O3) standards. To address the air quality needs of this expansive and diverse region, the District maintains a robust air monitoring program that meets federal requirements while providing vital information to the public.

The air monitoring network in the Valley also includes air monitoring stations that are managed and operated by ARB and the National Park Service (NPS). Additionally, there are three tribal air monitoring stations operating in the Valley: the Tachi Yokut Tribe operates the Santa Rosa Rancheria air monitoring station located in Kings County; the Monache Tribe and Foothill Yokut Indians operate the air monitoring station located at Table Mountain Rancheria in Fresno County; and the Chukchansi Indians of California operate the Picayune Rancheria air monitoring station located in Madera County. Since the tribal monitors are operated under the Tribal Authority Rule which is essential to tribal implementation of the Clean Air Act (CAA), and are not part of the District's jurisdiction, detailed site information for tribal monitors is not provided in this air monitoring network plan.

A map of the air monitoring sites in the Valley is provided in Figure 1 on the following page.

Figure 1: Map of Air Monitoring Sites in the San Joaquin Valley





San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT

#### **SAN JOAQUIN COUNTY**

- 1 Stockton-Hazelton: G, M, P, F, T
- ★2 Tracy-Airport: G, M, P, F
- ★ 3 Manteca: P. F. M

#### STANISLAUS COUNTY

- 4 Modesto-14th St; G, M, P. F
- **★** 5 Turlock: G, M, P, F

#### **MERCED COUNTY**

- ★ 6 Merced-M St: P, F
- ★ 7 Merced-Coffee: G, F, M

#### MADERA COUNTY

- ★8 Madera City: G, P, F, M
- ★ 9 Madera-Pump Yard: G, M

Chukchansi Indians

▲ 10 Picayune Rancheria: G, F, P, M

#### **FRESNO COUNTY** Other1:

Monache Tribe/Foothill Yokut Indians

- ▲ 11 Table Mountain AMS+: G, F, P, M
- ★ 12 Tranquillity: G, F, M
- ★ 13 Fresno-Sky Park: G, M
- ★ 14 Clovis: G, M, P, F
- 15 Fresno-Garland: G, M, P, F, T, N
- ★ 16 Fresno-Pacific: F
- ★ 17 Fresno-Drummond: G, P, M
- ★ 18 Fresno-Foundry: G, M
- ★ 19 Parlier: G, M
- ★ 20 Huron: F, M

- KINGS COUNTY ★ 21 Hanford: G, F, M, P
- ★ 22 Corcoran: F, M, P

#### Other1:

Tachi Yokut Tribe

▲ 23 Santa Rosa Rancheria: G, M, P

#### **TULARE COUNTY**

- ★ 24 Visalia Airport: M
- 25 Visalia-Church St: G, F, M, P
- ★ 26 Porterville: G, F, M Other2:
- ▲ 27 Lower Kaweah: A, G, M
- ▲ 28 Ash Mountain: A, G, M, F

#### KERN COUNTY

- 29 Shafter: G. M.
- 30 Oildale: G. M. P.
- ★ 31 Bakersfield-Golden/M St: F, P
- ★ 32 Bakersfield-Westwind: G, M
- 33 Bakersfield-Calif Ave: G, M, P, F, T
- \* 34 Bakersfield-Muni: G, M
- 35 Bakersfield-Airport (Planz): F
- 36 Edison: G, M
- 37 Arvin-Di-Giorgio: G, M
- ★ 38 Maricopa: G, M
- ★ 39 Lebec: F. M.

#### MONITORING DESIGNATIONS

- F Fine Particulate (PM2.5) P Particulate (PM10) G Gaseous

- M Meteorological
- N National Core T Toxins

#### MONITORING OPERATION

- ★ Sites operated by the District
- Sites operated by the District & CARB
- Sites operated by CARB
- ▲ Sites operated by other agencies Other<sup>1</sup> Tribal

Other<sup>2</sup> National Park Service

<sup>+</sup> Air Monitoring Station (AMS)

# AIR MONITORING NETWORK PLAN REQUIREMENTS

As specified in Title 40 Code of Federal Regulations (CFR) Part 58, Section 58.10 (40 CFR §58.10), and as a requirement of the District's EPA 105 Grant, this air monitoring network plan describes the current state of the District's monitoring network and planned changes to the network.

Each year, the District updates the air monitoring network plan and posts it for public inspection for at least 30 days prior to submitting it to the EPA Regional Administrator. Air monitoring network plans provide information on the establishment and maintenance of air monitoring networks that may include the types of stations and monitors listed in Table 1.

Table 1 Types of Air Monitoring Stations, Monitors, and Networks

Abbreviation	Full Name	Description
FRM	Federal Reference Method	EPA defines how these monitors are to work, how they are to be engineered, and how they are to measure pollutants. These monitors are used to determine compliance with EPA's health-based air quality standards.
FEM	Federal Equivalent Method	These monitors are considered to be equivalent to FRM monitors for the purpose of determining compliance with EPA's health–based air quality standards.
NCore	National Core	Multipollutant monitoring stations; in California, these are operated by CARB.
PAMS	Photochemical Assessment Monitoring Station	VOC (volatile organic compounds) speciation sites used in serious, severe, or extreme ozone nonattainment areas for precursor evaluation.
SLAMS	State and Local Air Monitoring Station	Monitoring sites that are used for determinations of compliance with federal air quality standards, though they may be used for other purposes as well.
SPM	Special Purpose Monitor	Not included when showing compliance with the minimum air monitoring requirements; an example might include a temporary monitoring station set up in an area to measure short term air quality impacts of a source. Data collected from an SPM can be used for Regulatory purposes if the monitor has been operational for two years and if the monitor is an FEM, or FRM.
STN	Speciated Trends Network	PM2.5 speciation stations that provide chemical speciation data of particulate matter (PM).

The air monitoring network plan should include a statement of purpose for each monitor and evidence that siting and operation of each monitor meets the requirements of Appendices A, C, D, and E of 40 CFR Part 58. The plan must contain the following information for each existing and proposed site (40 CFR §58.10 (b)):

- The MSA, CBSA, CSA, or other area represented by the monitor. MSA, CBSA, and CSA are statistical—based definitions for metropolitan areas provided by the Office of Management and Budget and the Census Bureau (see Table 2):
  - MSA: Metropolitan statistical area
  - CBSA: Core-based statistical area
  - CSA: Combined statistical area
- Air Quality System (AQS) site identification number (see Table 3).
- Population estimate (see Table 4).
- Location: Street address and geographical coordinates (see Appendix B).
- Sampling and analysis methods for each measured parameter (see Appendix B).
- Operating schedules for each monitor (see Appendix B).
- Monitoring objective and spatial scale of representativeness for each monitor (as defined in Appendix D to 40 CFR Part 58) (see Appendix B).
- Any proposals to remove or move a monitoring station within 18 months of a plan submittal. Any proposed additions and discontinuations of SLAMS monitors are subject to approval according to 40 CFR §58.14 (see *Improvements and Planned Changes* section of this document).

There are several network plan requirements that pertain specifically to PM2.5 monitoring:

- The monitoring network plan must identify which sites are suitable and which are not suitable for comparison against the annual PM2.5 NAAQS as described in 40 CFR §58.30 (see PM2.5 Monitors section of this document).
- The plan must also document how the District provides for public review of changes to the PM2.5 monitoring network when the change impacts the location of a violating PM2.5 monitor, or the creation/change to a community monitoring zone.
- The District should submit any public comments received on PM2.5 monitoring changes in the submittal of the air monitoring network plan.
- On March 18, 2013, EPA finalized the rule to revoke the term "population—oriented." The final rule states that PM2.5 monitors at neighborhood scale or larger, or smaller scales that represent many locations in the same CBSA, are the only monitors representative of "area—wide" air quality that can be compared to the PM2.5 NAAQS.

Table 2 San Joaquin Valley Areas of Representation

•	
TITLE	CODE
Combined Statistical Area (CSA)	Combined Statistical Area (CSA) Code
Fresno-Madera	260
Metropolitan Statistical Area (MSA)	Core-Based Statistical Area (CBSA) Code
Stockton-Lodi	44700
Modesto	33700
Merced	32900
Madera	31460
Fresno	23420
Hanford-Corcoran	25260
Visalia-Porterville	47300
Bakersfield*	12540

Monitors from both the District and the Eastern Kern County Air Pollution Control District can be counted when determining compliance with minimum monitoring requirements for the Bakersfield CBSA. However, only monitors located within the District's boundaries are included in this network plan.

**Table 3 Site Identification** 

o one inclination	••
AQS ID	Operating Agency
06-077-2010	SJVAPCD
06-077-1002	CARB
06-077-3005	SJVAPCD
AQS ID	Operating Agency
06-099-0005	CARB
06-099-0006	SJVAPCD
AQS ID	Operating Agency
06-047-0003	SJVAPCD
06-047-2510	SJVAPCD
40010	O
	Operating Agency
	SJVAPCD
06-039-0004	SJVAPCD
	06-077-2010 06-077-1002 06-077-3005 AQS ID 06-099-0005 06-099-0006 AQS ID 06-047-0003

Table 3 Site Identification (continued)

	Site Identification (cor	itinued)
MSA/CBSA: Fresno		
County: Fresno		
Site Name	AQS ID	Operating Agency
Clovis-Villa	06-019-5001	SJVAPCD
Fresno-Drummond	06-019-0007	SJVAPCD
Fresno-Garland	06-019-0011	CARB
Fresno-Foundry	06-019-2016	SJVAPCD
Fresno-Pacific	06-019-5025	SJVAPCD
Fresno–Sky Park	06-019-0242	SJVAPCD
Huron	06-019-2008	SJVAPCD
Parlier	06-019-4001	SJVAPCD
Tranquillity	06-019-2009	SJVAPCD
MSA/CBSA: Hanford–Corcoran		
County: Kings		
Site Name	AQS ID	Operating Agency
Corcoran-Patterson	06-031-0004	SJVAPCD
Hanford-Irwin	06-031-1004	SJVAPCD
MSA/CBSA: Visalia–Porterville		
County: Tulare		
Site Name	AQS ID	Operating Agency
Porterville	06-107-2010	Operating Agency SJVAPCD
Sequoia–Ash Mountain	06-107-2010	NPS
Sequoia–Asir Mountain Sequoia–Lower Kaweah	06-107-0009	NPS
	06-107-3000	SJVAPCD
Visalia–Airport Visalia–Church St		
Visalia–Church St	06-107-2002	CARB
MSA/CBSA: Bakersfield		
County: Kern (Valley Portion)		
Site Name		
	AQS ID	Operating Agency
Arvin-Di Giorgio	06-029-5002	CARB
Arvin-Di Giorgio Bakersfield-Golden / M St	06-029-5002 06-029-0010	CARB SJVAPCD
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind	06-029-5002 06-029-0010 06-029-2019	CARB SJVAPCD SJVAPCD
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind Bakersfield-California	06-029-5002 06-029-0010 06-029-2019 06-029-0014	CARB SJVAPCD SJVAPCD CARB
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind Bakersfield-California Bakersfield-Muni	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012	CARB SJVAPCD SJVAPCD CARB SJVAPCD
Arvin–Di Giorgio Bakersfield–Golden / M St Bakersfield–Westwind Bakersfield–California	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012 06-029-0016	CARB SJVAPCD SJVAPCD CARB SJVAPCD CARB
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind Bakersfield-California Bakersfield-Muni	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012	CARB SJVAPCD SJVAPCD CARB SJVAPCD
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind Bakersfield-California Bakersfield-Muni Bakersfield-Airport (Planz)	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012 06-029-0016	CARB SJVAPCD SJVAPCD CARB SJVAPCD CARB
Arvin-Di Giorgio  Bakersfield-Golden / M St  Bakersfield-Westwind  Bakersfield-California  Bakersfield-Muni  Bakersfield-Airport (Planz)  Edison	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012 06-029-0016 06-029-0007	CARB SJVAPCD SJVAPCD CARB SJVAPCD CARB CARB
Arvin-Di Giorgio Bakersfield-Golden / M St Bakersfield-Westwind Bakersfield-California Bakersfield-Muni Bakersfield-Airport (Planz) Edison Lebec	06-029-5002 06-029-0010 06-029-2019 06-029-0014 06-029-2012 06-029-0016 06-029-0007 06-029-2009	CARB SJVAPCD SJVAPCD CARB SJVAPCD CARB CARB SJVAPCD

Total **Major Urban Area** Urban Area Pop County County < 100,000 and > 50,000 Pop > 100,000Population\* San Joaquin 758,744 Stockton Lodi, Manteca, Tracy Stanislaus 555,624 Modesto Turlock Merced 279.977 Merced Madera 158,894 Madera Fresno 1,007,229 Fresno, Clovis Kings 151,662 Hanford Tulare Porterville, Tulare 475,834 Visalia Kern (Valley Portion) 769,931\*\* Bakersfield Delano Kern (Entire County) 905,801 Bakersfield Delano San Joaquin Valley Total 4,157,895

Table 4 San Joaquin Valley 2018 Population

# Monitoring Objectives, Site Types, and Spatial Scales

Three **basic monitoring objectives** that define the purpose of each analyzer are identified in 40 CFR Part 58 Appendix D:

- Provide air pollution data to the general public in a timely manner (timely/public).
- Support compliance with ambient air quality standards and emissions strategy development (NAAQS comparison).
- Support for air pollution research studies (research support).

**Site types** meet the objectives that define what the monitor is measuring. Some of the general monitoring site types identified in 40 CFR Part 58, Appendix D include:

- Sites located to determine the highest concentrations in the area covered by the network.
- Population exposure sites to measure typical concentrations in areas of high population density.
- **Source oriented** sites to determine the impact of significant sources or source categories on air quality.
- General Background sites determine background concentration levels.
- **Regional transport** sites located to determine the extent of regional pollutant transport among populated areas and in support of secondary standards
- Sites located to measure air pollution impacts on visibility, vegetation damage, or other welfare-related impacts.

<sup>\*</sup> Data from California Department of Finance E–1 Population Estimates for Cities, Counties and the State, January 1, 2017, Released January 1, 2018

Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries. The San Joaquin Valley Total includes the Kern (Valley Portion) population and not the Kern (Entire County) population.

Scales of spatial representativeness are described in terms of physical dimensions of the air parcel or zone where air quality is expected to be reasonably consistent around the monitor. The monitor thus represents that area, not just the point of the monitor. The following **spatial scales** are identified in 40 CFR Part 58, Appendix D:

- Microscale: An area ranging from several meters up to about 100 meters.
- Middle scale: An area covering between about 100 meters to 0.5 kilometers.
- Neighborhood scale: Covering an area between 0.5 and 4.0 kilometers in range.
- **Urban scale**: Covering an area of city-like dimensions, from about 4 to 50 kilometers.
- Regional scale: Covering a rural area of reasonably homogeneous geography without large sources, extending from tens to hundreds of kilometers.

New monitoring stations and new monitors that are intended to be compared to the NAAQS must meet EPA siting criteria. Some sites may be appropriate for monitoring all air pollutants, while other sites may be appropriate for a particular pollutant. The District balances a wide range of pollutant siting criteria, spatial scales, monitoring objectives, and practical concerns as it plans and operates its monitoring network. Table 5 summarizes the parameters measured at each air monitoring site in the San Joaquin Valley.

# Meteorology

A variety of meteorological parameters are measured for various District programs affected by weather. Such programs include air quality forecasting, PAMS, exceptional events, long-term planning, and pollutant trend assessment. These activities help protect public health and have made the public and media more aware of air quality and what can be done to reduce air pollution. See Table 6 for the meteorological parameters measured in the Valley.

# **State of the Air Monitoring Network**

This air monitoring network plan summarizes the state of the District's air monitoring network during 2018. Additionally, changes that the District may initiate through December 2019 are described in the *Improvements and Planned Changes* section later in this document.

 Table 5
 Pollutant Parameters Monitored in the San Joaquin Valley

Table 5 Foliutant Farameters Monitored in the San Joaquin Valley												
Site Name	Ozone	PM2.5	PM10	PM10-2.5	NO, NO2,	00	S02	HWN	Speciated VOC	NOy	PM2.5 Speciation	< Toxics
Stockton-Hazelton	✓	✓	✓		✓	✓						✓
Manteca		✓	✓									
Tracy-Airport	✓	✓	✓		✓							
Modesto-14th St	✓	✓	✓			✓					✓	
Turlock	✓	✓	✓		✓							
Merced-Coffee	✓	✓			✓							
Merced-M St		✓	✓									
Madera-City	✓	✓	✓									
Madera-Pump Yard	✓				✓			✓	✓			
Tranquillity	✓	✓										
Fresno–Sky Park	1				✓							
Clovis-Villa	✓	✓	✓		✓	✓		✓	✓			
Fresno-Garland	1	✓	✓	✓	✓	✓	✓			✓	✓	✓
Fresno-Pacific		✓										
Fresno-Foundry					✓							
Fresno-Drummond	1		✓		✓							
Parlier	✓				✓			✓	✓			
Huron		✓										
Hanford-Irwin	1	✓	✓		✓							
Corcoran-Patterson		✓	✓									
Visalia-Airport												
Visalia-Church St	1	✓	✓		✓						✓	
Sequoia-Lower Kaweah	1											
Sequoia–Ash Mountain	✓	✓										
Porterville	✓	✓										
Shafter	✓				✓			✓	✓			
Oildale	✓		✓									
Bakersfield-Golden / M St		✓	<b>✓</b>									
Bakersfield–Westwind					✓							
Bakersfield-California	1	✓	✓		✓						✓	✓
Edison	1				✓							
Bakersfield-Muni	1				✓	✓		✓	✓			
Bakersfield-Airport (Planz)		✓										
Arvin–Di Giorgio	1											
Maricopa	1											
Lebec		1										

Table 6 Meteorological Parameters Monitored in the San Joaquin Valley

Site Name	Wind Speed	Wind Direction	Outdoor Temperature	Relative Humidity	Barometric Pressure	Solar Radiation
Stockton-Hazelton	✓	✓	✓	✓		
Manteca	✓	✓	✓		✓	
Tracy-Airport	✓	✓	✓		✓	
Modesto-14th St	✓	✓	✓	✓		
Turlock	✓	✓	✓		✓	
Merced-Coffee	✓	✓	✓			
Madera-City	✓	✓	✓	✓	✓	✓
Madera-Pump Yard	✓	✓	✓	✓	✓	✓
Tranquillity	✓	✓	✓		✓	
Fresno-Sky Park	✓	✓	✓			
Clovis-Villa	✓	✓	✓	✓	✓	✓
Fresno-Garland	✓	✓	✓	✓	✓	
Fresno-Foundry	✓	✓	✓		✓	
Fresno-Drummond	✓	✓	✓		✓	
Parlier	✓	✓	✓	✓	✓	✓
Huron					✓	
Hanford-Irwin	✓	✓	✓		✓	
Corcoran-Patterson	✓	✓	✓			
Visalia-Airport	✓	✓	✓	✓	✓	✓
Visalia-Church St	✓	✓	✓	✓		
Sequoia-Lower Kaweah	✓	✓	✓	✓		✓
Sequoia–Ash Mountain	✓	✓	✓	✓		✓
Porterville	✓	✓	✓		✓	
Shafter	✓	✓	✓	✓	✓	✓
Oildale	✓	✓	✓	✓		
Bakersfield– Westwind	<b>✓</b>	✓	✓		✓	
Bakersfield– California	<b>✓</b>	✓	✓	✓		
Edison	✓	✓	✓	✓		
Bakersfield-Muni	✓	✓	✓	✓	✓	✓
Arvin-Di Giorgio	✓	✓	✓	✓		
Maricopa	✓	✓	✓		✓	
Lebec	✓	✓	✓		✓	

# POLLUTANT MONITORING REQUIREMENTS

#### **Ozone**

In 2015 EPA revised the 8-hour average ozone standard by lowering this level to 70 ppb. Ozone is formed when its precursors (oxides of nitrogen (NOx) and VOC) chemically react in the presence of heat and sunlight. The Valley's topography, high temperatures, subsidence inversions, and light winds are conducive to the formation of elevated ozone levels. Furthermore, winds (at ground level or at higher altitudes) transport pollutants from other basins into the Valley, within the Valley to areas downwind, and from the Valley into other regions.

As specified in 40 CFR part 58, Appendix D, Table D–2, ozone monitoring site requirements are based on MSA population and design values (see Table 7 below). Table 8 shows that the Valley's ozone monitoring network meets these requirements. Sites are intended to represent population exposures and maximum concentrations, so most ozone monitors are representative of neighborhood and regional scales. All of the SLAMS ozone analyzers in the District's network operate in compliance with 40 CFR Part 58 Appendix A and Appendix E and measure hourly ozone concentrations. The hourly ozone data is also used in the District's RAAN. As such, these analyzers are comparable to the ozone NAAQS (70 part per billion (ppb)) and also meet the "Timely/Public" monitor objective.

Table 7 SLAMS Minimum Ozone Monitoring Requirements

MSA population, based	Number of monitors required if:				
on latest available census figures	Most recent 3–year design value concentrations ≥85% of any ozone NAAQS*	Most recent 3-year design value concentrations <85% of any ozone NAAQS*			
> 10 million	4	2			
4 – 10 million	3	1			
350,000 - < 4 million	2	1			
50,000 - < 350,000	1	0			

Table 8 Ozone Monitorii	g Requirements	for the Valley <sup>^</sup>
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MSA	2018 Population	Highest 2018 Ozone Design Value in MSA (ppb)	≥85% of 2018 ozone NAAQS*	Number of SLAMS required	SLAMS in MSA
Stockton-Lodi	758,744	76	Yes	2	2
Modesto	555,624	84	Yes	2	2
Merced	279,977	79	Yes	1	1
Madera	158,894	81	Yes	1	2
Fresno	1,007,229	90	Yes	2	6
Hanford– Corcoran	151,662	82	Yes	1	1
Visalia- Porterville	475,834	85	Yes	2	3
Bakersfield	769,931**	89	Yes	2	7

<sup>\*</sup>Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

# **Photochemical Assessment Monitoring Stations**

The monitoring objective of Photochemical Assessment Monitoring Stations (PAMS) is "research support". Federal regulations (Clean Air Act Section 182 and 40 CFR 58) require serious, severe, and extreme ozone nonattainment areas to have PAMS sites to take speciated measurements of ozone precursors and allow for better understanding of the effect of precursors, control measures, and photochemistry on ozone formation. PAMS sites measure ozone, carbon monoxide (CO), nitrogen oxide (NO), nitrogen dioxide (NO2), oxides of (NOx), and non-methane hydrocarbon (NMH) as well as meteorology. Although the Valley does not exceed federal or state standards for NO2, NOx reductions contribute to air quality improvement for both ozone and particulate matter (PM).

There are four classifications of PAMS:

- Type 1: **Background sites** upwind of urban areas, where ozone concentrations are presumed not to be influenced by nearby urban emissions.
- Type 2: **Maximum ozone precursor emissions sites**, typically located in an urban center, where emissions strengths are the greatest.
- Type 3: **Maximum ozone concentration sites**, intended to show the highest ozone concentrations.
- Type 4: Downwind ozone monitoring sites, intended to capture concentrations
  of transported ozone and precursor pollutants, and determine possible areas
  from which most of the transport may originate. Type 4 sites are currently not
  required for the San Joaquin Valley.

As shown in Table 9, the District has a total of six PAMS sites configured as two networks, one for the Fresno MSA and one for the Bakersfield MSA. In May 2016, the

<sup>^</sup> Design Values are preliminary pending updated values from ARB sites.

EPA approved the relocation of the ozone SLAMS monitor formerly at Arvin-Bear Mountain to the Arvin-Di Giorgio location in Kern County. Additionally, CARB has begun the process of building a permanent shelter that should have enough space to accommodate all of the PAMS equipment intended for the site. It should be noted that, in lieu of upcoming changes to PAMS program requirements, plans to continue PAMS monitoring at Arvin are pending (see *Planned Changes/Improvements* section of this document).

Every year the PAMS program operates from June 1 through August 31 on a 1 in 3 day sampling schedule. At least four, three—hour integrated samples are collected each sampling day, which is referred to as a "Trend Day." However, additional samples are collected on "Episode Days," days that are forecasted to have high ozone concentrations. The goal is to sample on three to five multi—day episodes in an ozone season. PAMS equipment operates on an hourly basis year round.

Table 9 San Joaquin Valley PAMS Network

rabio o can ocaquin ranoj i zimo nomen							
MSA	Site	Site Type					
	Madera-Pump Yard	Type 1: Upwind/Background site					
Fresno	Clovis-Villa	Type 2: Maximum precursor emissions					
	Parlier	Type 3: Maximum ozone concentrations					
	Shafter	Type 1: Upwind/Background site					
Bakersfield	Bakersfield-Muni	Type 2: Maximum precursor emissions					
	Arvin-Di Giorgio*	Type 3: Maximum ozone concentrations					

PAMS equipment for the Type 3 site at the Arvin-Di Giorgio may be installed when space becomes available.

As a part of the October 1, 2015, revisions to the PAMS requirements in 40 CFR Part 58, Appendix D, areas that are classified as Moderate nonattainment or above for 8-hour ozone must develop and implement an Enhanced Monitoring Plan (EMP), explaining how continued measurements of ozone and ozone precursors will assist in understanding the formation of ozone in the area. Paragraph 5(h) of 40 CFR Part 58, Appendix D provides examples of how nonattainment areas can meet the EMP requirements, which include, but are not limited to, the following:

- Additional ozone monitors beyond the minimally required under paragraph 4.1 of Appendix D
- 2. Additional NOx or NOy monitors beyond those required under 4.3 of Appendix D
- 3. Additional speciated VOC measurements including data gathered during different periods other than required under paragraph 5(g) of Appendix D, or locations other than those required under paragraph 5(a) of Appendix D, and
- 4. Enhanced upper air measurements of meteorology or pollution concentrations.

Based on the Valley's ozone network design described earlier, the region well exceeds the minimum ozone monitoring requirements in both the Fresno and Kern county areas.

In addition, the air monitoring network in the Valley includes an expansive network of NO/NO2/NOx monitors, which assists in understanding how this important precursor to ozone formation varies and trends across the Valley. The District's ongoing speciated VOC measurement campaigns during the summer months of June through August will provide key information of how this precursor contributes to ozone formation. Finally, upper air measurements being conducted by CARB through the use of ceilometers in the Valley will provide important information of how various meteorological conditions can contribute to elevated ozone concentrations. Due to these ongoing efforts, the Valley meets the EMP requirements for the PAMS program.

# **Nitrogen Dioxide**

In 2010, EPA retained the annual average NO2 standard of 53 ppb, and established a new 1–hour NO2 standard at the level of 100 ppb. Recognizing that the current NO2 network is not adequate for fully assessing compliance with the new NAAQS, EPA finalized a Three–Tier Network design that will represent NO2 concentrations that occur near freeways, urban areas, and locations aimed at protecting susceptible and vulnerable communities. Per 40 CFR Part 58, the Three–Tier Network design is comprised of:

(1) One monitor that represents highest NO2 exposure with a neighborhood scale or larger in CBSAs with more than 1,000,000 people.

Even though the District is not required to have an area—wide NO2 monitor, the District and ARB operate an extensive NO2 monitoring network consisting of 18 monitors, including one near-road NO2 monitor in Fresno and a second near-road NO2 monitor in Bakersfield. The District locates NO2 analyzers as required at PAMS sites and generally collocates NO2 analyzers wherever an ozone monitor is required. Currently, all of the Valley's NO2 monitors are in compliance with the federal NO2 standards, including the Fresno and Bakersfield near-road NO2 monitoring stations, which are focused on capturing peak NO2 concentrations from heavily trafficked roadways. The Fresno and Bakersfield near-road NO2 monitoring stations are well within compliance of the federal standard.

(2) Near-road monitoring at locations of expected maximum 1-hour NO2 concentrations near heavily trafficked roads in urban areas.

On December 30, 2016, EPA finalized the revision to the Near-road NO2 minimum monitoring requirements. Thus, per Section 4 of Appendix D in 40 CFR Part 58, one microscale near-road monitor is required in each CBSA with a population of 1,000,000 or more and must be located near a major road segment with a high annual average daily truck traffic (AADTT) count. Another near-road monitor is required in CBSAs with populations of 2,500,000 or more; or in CBSAs with populations of 1,000,000 or more that have one or more road segments with 250,000 or more AADTT counts. Additionally, for CBSAs with populations of 1,000,000 or more, EPA requires that one PM2.5 monitor and one CO monitor be collocated at a near-road NO2 site.

The District has been proactive in meeting these requirements by establishing near-road NO2 monitoring stations in the Fresno CBSA which has reached a population of 1,000,000, and in the Bakersfield CBSA which is nearing a population of 1,000,000. The near-road air monitoring station in Fresno became operational in January 2016, and the Bakersfield near-road NO2 air monitoring station became operational in January 2019.

(3) NO2 network consisting of 40 monitors designed by the Regional Administrators to protect susceptible and vulnerable communities.

The third network, the Regional Administrator Required Monitoring Network (RA40) will consist of 40 NO2 sites located throughout the United States and their locations will be determined by the Regional Administrators. These 40 sites would be in addition to the minimum NO2 monitoring requirements. EPA Region 9 has asked the District to choose two sites for RA40 purposes. Currently, Parlier is designated as an RA40 site in the Fresno CBSA, and Bakersfield-Muni is designated as the RA40 site in the Bakersfield CBSA. These sites are located in towns with susceptible and vulnerable populations. In addition, they are downwind from urban areas.

# **Carbon Monoxide**

On August 12, 2011 EPA issued the decision to retain the existing NAAQS for CO. The primary standards are 9 parts per million (ppm) measured over 8 hours, and 35 ppm measured over 1 hour. Monitoring requirements for CO are specified in 40 CFR Part 58 as follows:

- CO monitors are required at all NCore sites. At least one NCore site is required in every state.
- One CO monitor is required to be placed at a near-road NO2 monitoring station in a CBSA with population of 1,000,000 or more. Moving an existing monitor to a new location is acceptable.
- EPA is providing authority to EPA Regional Administrators to require additional monitoring in case—by—case circumstances, such as in areas impacted by major stationary CO sources, in urban downtown areas, or urban street canyons, or in areas adversely impacted by meteorological and/or topographical influences.
- CO must be monitored at PAMS Type 2 sites with a trace level CO monitor.

Currently, only Fresno is the CBSA within the District that is comprised of more than 1,000,000 people, thus the District is required to place a CO monitor at a near-road NO2 monitoring station. Monitoring has shown that the Valley's CO concentrations have not exceeded the NAAQS for over a decade. As noted in Section 4.2 of Appendix D of 40 CFR Part 58, there are no minimum requirements of the number of CO monitoring sites. The District and CARB continue CO monitoring to meet the requirement at its PAMS Type 2 sites and NCore site, and to supplement related meteorological and criteria pollutant data.

# **Sulfur Dioxide**

In 2010, EPA revised the NAAQS and monitoring requirements for SO2 which are outlined in 40 CFR Part 58 Appendix D Section 4.4. As such, a new primary 1–hour standard of 75 ppb was established, and the previous 24–hour and annual primary standards were revoked. Under the revised SO2 NAAQS, the monitoring requirements are determined by a Population Weighted Emissions Index (PWEI) value in units of million persons–tons per year. The PWEI is calculated using each CBSA's updated census data and a combined total of the latest available county level SO2 emissions data in the National Emissions Inventory for the counties in each CBSA. The population of a CBSA is multiplied with the total amount of SO2 in tons per year emitted within a CBSA, and the resulting product is then divided by one million to produce the PWEI value. The Valley's PWEI values are shown in Table 10.

Table 10 Valley SO2 PWEI Values for 2018

Table 10 Validy 3021 Valides 101 2010							
County	Total County 2018 Population*	SO2 Tons per Year**	PWEI				
San Joaquin	758,744	1,825	1,385				
Stanislaus	555,624	438	243				
Merced	279,977	292	82				
Madera	158,894	292	46				
Fresno	1,007,229	3,249	3,272				
Kings	151,662	292	44				
Tulare	475,834	329	156				
Kern	905,801*	1,716	1,554				

<sup>\*</sup> Population estimates are for the entire county.

As per 40 CFR Part 58, Appendix D to Part 58 – Network Design Criteria of Ambient Air Quality Monitoring, Section 4.4, at least three SO2 monitors are required in CBSAs with a PWEI value equal to or greater than 1,000,000. CBSAs with a PWEI value equal to or greater than 100,000 but less than 1,000,000, are required to have at least two SO2 monitors. A minimum of one SO2 is required in CBSAs with a PWEI value equal to or greater than 5,000, but less than 100,000.

As determined by the above Network Design Criteria PWEI, the highest PWEI value

<sup>\*\*</sup>SO2 Tons per Year includes the entire county. The SO2 data is the most recent data for each county from 2015. Source: California Air Resources Board California Emission Inventory Development and Reporting System (CEIDARS) <a href="http://www.arb.ca.gov/ei/drei/maintain/database.htm">http://www.arb.ca.gov/ei/drei/maintain/database.htm</a>.

(Fresno County) is only 3,272, far below the minimum of 5,000 that would require one monitor. Incidentally, the Distinct does not exceed the federal standard for SO2 and for CBSAs that do not exceed the federal SO2 standard there is no required number of SO2 monitors. As a result, there are no SO2 monitoring requirements for the District. Despite not having any monitoring requirements, there is one SO2 monitor operating within the District's network. This monitor is located at the Fresno-Garland AMS (Air Monitoring Station) as part of the NCore Network.

# **Reactive Nitrogen Compounds (NOy)**

Reactive Nitrogen Compounds (NOy) are among the precursors to ozone and PM2.5. As part of the National Ambient Air Monitoring Strategy (NAAMS), EPA requires NOy monitoring at 75 locations across the United States in support of a number of objectives. NCore site requirements and the PAMS program include monitoring NOy in order to meet that requirement. Measuring NOy at NCore and PAMS sites is important for understanding ozone photochemistry. Within the District's network, the NCore site at Fresno-Garland currently monitors NOy.

# **Toxics**

The airborne toxics program is run by CARB. Toxics measurements are collected at Stockton-Hazelton, Fresno-Garland, and Bakersfield-California. Periodic, 24-hour samples are analyzed for the following gases: benzene, carbon tetrachloride, chloroform, ethylene dibromide, ethylene dichloride, methyl chloroform, methylene chloride, perchloroethylene, toluene, trichloroethylene, and m-, p-, and o-xylene. The samples are also analyzed for 20 particulate metals including: arsenic, lead, nickel, cadmium, and hexavalent chromium.

# **Detailed Site Information – Gaseous Monitors**

Criteria such as monitoring methods, monitor types, spatial scales, site types, basic monitoring objectives, current sampling frequencies, and other requirements being met by the District's gaseous pollutants monitoring network are shown in Tables 11, 12, 22 through 27, and Appendix B.

**Table 11 Gaseous Monitors** 

0% N	FRM/FEM/ARM/Other							
Site Name	Ozone	NO2	СО	NMH	Speciated VOC			
Stockton-Hazelton	FEM	FRM	FRM					
Tracy-Airport	FEM	FEM						
Modesto-14th St	FEM		FRM					
Turlock	FEM	FEM						
Merced-Coffee	FEM	FEM						
Madera-City	FEM							
Madera-Pump Yard	FEM	FEM		Other	Other			
Tranquillity	FEM							
Fresno-Sky Park	FEM	FEM						
Clovis-Villa	FRM	FEM	FEM	Other	Other			
Fresno-Foundry		FEM						
Fresno-Drummond	FRM	FEM						
Parlier	FEM	FEM		Other	Other			
Hanford-Irwin	FEM	FEM						
Visalia-Church St	FEM	FRM						
Porterville	FEM							
Shafter	FEM	FRM		Other	Other			
Oildale	FEM							
Bakersfield- Westwind		FEM						
Bakersfield-California	FEM	FRM						
Edison	FEM	FRM						
Bakersfield-Muni	FEM	FEM	FEM	Other	Other			
Arvin-Di Giorgio	FEM							
Maricopa	FEM							

Monitoring method information for the Fresno-Garland NCore site is provided in Table 22.

**Table 12 Gaseous Monitors - Monitor Type** 

Table 12 G	Monitor Type					
Site Name	Ozone	NO2	со			
Stockton-Hazelton	SLAMS	SLAMS	SLAMS			
Tracy-Airport	SLAMS	SLAMS				
Modesto-14th St	SLAMS		SLAMS			
Turlock	SLAMS	SLAMS				
Merced-Coffee	SLAMS	SLAMS				
Madera-City	SLAMS					
Madera-Pump Yard	SLAMS	SLAMS				
Tranquillity	SLAMS					
Fresno-Sky Park	SLAMS	SLAMS				
Clovis-Villa	SLAMS	SLAMS	SLAMS			
Fresno-Foundry		SLAMS				
Fresno-Drummond	SLAMS	SLAMS				
Parlier	SLAMS	SLAMS				
Hanford-Irwin	SLAMS	SLAMS				
Visalia-Church St	SLAMS	SLAMS				
Porterville	SLAMS					
Shafter	SLAMS	SLAMS				
Oildale	SLAMS					
Bakersfield–Westwind		SLAMS				
Bakersfield-California	SLAMS	SLAMS				
Edison	SLAMS	SLAMS				
Bakersfield-Muni	SLAMS	SLAMS	SLAMS			
Arvin-Di Giorgio	SLAMS					
Maricopa	SLAMS					

Monitor type information for the Fresno-Garland NCore site is provided in Table 22.

# Particulate Matter (PM)

Particulate matter (PM) can be emitted directly as primary PM as well as formed in the atmosphere through chemical reactions of precursors to form secondary PM. Primary PM can be emitted either naturally or as a result of human (anthropogenic) activity. The resulting ambient PM mixture includes aerosols consisting of components of nitrates, sulfates, elemental carbon, organic carbon compounds, acid aerosols, trace metals, and geological materials. Under current regulations, PM is differentiated by particle size as opposed to composition. Federal air quality standards differentiate two size fractions of PM: PM that is 10 microns or less in diameter (PM10) and the smaller subset that is 2.5 microns or less in diameter (PM2.5).

The mountain ranges that surround the Valley contribute to trapping pollutants, including PM, in the Valley. The Valley's frequent and strong winter temperature inversions prevent air and emissions from rising and dispersing, causing particulates to remain trapped near the surface. Prolonged periods of high pressure and stable conditions with low wind speeds can cause stagnant conditions that trap pollutants near the surface, causing PM2.5 concentrations to increase during these poor dispersion periods. During low pressure events, unstable conditions can cause vertical and horizontal mixing that help disperse PM2.5 and lower the ambient concentrations.

To better understand the influence of meteorology, natural events, and sources of emissions on the Valley's PM2.5 concentrations, the District conducted the California Regional Particulate Air Quality Study (CRPAQS). CRPAQS was a comprehensive particulate field study for which monitoring occurred between December 1999 and February 2001. Through the use of over 70 Special Purpose Monitor (SPM) PM10 sites and 50 SPM PM2.5 sites, researchers analyzed data from CRPAQS for database development, analysis, and modeling. In addition to CRPAQS, other Valley-specific air quality studies have assessed particulate emissions from agricultural operations, unpaved and paved road particulate emissions, and particulate formation in fog episodes. The design of the Valley's current PM network is an outgrowth of the results and analysis from CRPAQS and other research efforts.

The Valley's PM monitoring network includes federal reference method (FRM) monitors, federal equivalent method (FEM) monitors, and Non–FEM monitors. FRM monitors for PM are manual filter–based monitors. The District's PM FRM samples are primarily collected on either a one-in-six day, one-in-three day, or one-in-twelve day sampling schedule. FRM monitors meet the "NAAQS Comparison" objective, helping agencies determine the Valley's attainment status and helping shape the strategies for reaching or maintaining PM attainment. FRM filters can also be analyzed for PM speciation, lending to their usage for "Research Support" objectives as well.

Beta Attenuation Monitors (BAM) and Tapered Element Oscillating Microbalance (TEOM) monitors are continuous, near real—time monitors that provide the hourly PM2.5 and PM10 data used in AQI forecasts, Smoke Management System (SMS) burn allocations, hazard reduction and prescribed burning allocations and, residential wood

burning declarations. The hourly PM2.5 data is also used in the District's Real-Time Air Advisory Network (RAAN). As such, these monitors help meet the "Timely/Public" objective.

Not all real-time monitors meet the "NAAQS Comparison" objective because they do not meet the rigorous engineering design, quality assurance, and quality control standards necessary for comparison to the NAAQS. An FEM monitor is often a real-time monitor that has been designated by EPA as being equivalent to FRM monitors. FEMs satisfy both the "NAAQS Comparison" objective and the "Timely/Public" objective.

Several PM2.5 analyzers within the District's network are located at sites that are not required by EPA. The District operates these sites for various reasons, including complying with state laws (Huron), as a settlement to a lawsuit (Tracy-Airport), and for the purposes of helping the District's RAAN and forecasting programs (Porterville and Lebec, where the Lebec site was donated to the District). Additionally, settlements of California Environmental Quality Act (CEQA) lawsuits between a private company and a private citizen required the company to give the District specific air monitoring equipment to be operated at specific sites. All of these sites and/or equipment are not required for NAAQS purposes.

The District operates four PM2.5 analyzers (parameter code 88502) as SPMs. These analyzers have not been certified by EPA as comparable to the PM2.5 NAAQS and do not meet all of the certification requirements. Specifically, EPA requires a runtime of 42 minutes per hour with an eight-minute count and these analyzers operate with a runtime of 50 minutes per hour with a four-minute count. Additionally, these instruments use a Sharp Cut Cyclone PM2.5 inlet instead of a Very Sharp Cut Cyclone PM2.5 inlet. Finally, some of these analyzers do not support the approved software to operate in a manner comparable to the NAAQS. While these sites are non-FEMs, they produce valuable data that is of sufficient quality for their intended purposes. All other required PM2.5 analyzers in the District's network, both SLAMS and SPM, are operated in compliance with 40 CFR Part 58 Appendix A and Appendix E, and are comparable to the PM2.5 NAAQS.

# **Detailed Site Information – PM Monitors**

As mentioned above, monitoring sites and monitors must meet siting and operational criteria as outlined in 40 CFR Part 58. Criteria such as monitor types, spatial scales, site types, basic monitoring objectives, current sampling frequencies, and other requirements being met by the District's PM network are shown in Tables 19 through 28 and Appendix B.

# **PM Collocation Requirements**

Per 40 CFR 58 Appendix A, Sections 3.2.5 and 3.2.6, the District's Particulate Matter collocation requirements are met by the Primary Quality Assurance Organization (PQAO). CARB is the PQAO for the District as well as several other air districts. See CARB's Air Monitoring Network Plans for details on how collocation requirements are met by the PQAO. Table 21 shows the collocated PM monitors currently operating in the District's monitoring network.

# **Public Review of Changes to the PM2.5 Monitoring Network**

Public input is required whenever the District proposes to move an existing violating PM2.5 monitor (40 CFR 58.10(c)). The District uses the annual Air Monitoring Network Plan to notify and seek public comment on any planned changes to the existing PM2.5 network. The public is provided 30 days to comment on the Air Monitoring Network Plan and any PM2.5 network changes. The plan is regularly posted on the District website, after which the public is notified of the availability of the document for the 30-day review. In the event of unanticipated changes to the PM2.5 network that occur outside the Air Monitoring Network Plan process, the District will post the required documentation on its website and seek public comment.

# **PM10 Monitoring Requirements**

The San Joaquin Valley has been redesignated to attainment for PM10, and the District's 2007 PM10 Maintenance Plan and ongoing PM10 monitoring will assure continued compliance with the federal standard. All required SLAMS PM10 analyzers, are operated in compliance with 40 CFR Part 58 Appendix A and Appendix E, and are comparable to the PM10 NAAQS which is 150 µg/m³.

As shown in Table 13 below, Table D-4 of Appendix D to Part 58 specifies that the minimum number of PM10 sites required per MSA is based on population. As such, Table 14 shows that the District's PM10 monitoring network meets the requirements for the San Joaquin Valley. Additionally, the year 2018 24-hour PM10 highest concentrations for each PM10 monitoring site in the District's network are provided in Table 15.

Table 13 Minimum PM10 Monitoring Requirements\*

Population category	High concentration**	Medium concentration***	Low concentration****
>1,000,000	6-10	4-8	2-4
500,000-1,000,000	4-8	2-4	1-2
250,000-500,000	3-4	1-2	0-1
100,000-250,000	100,000-250,000 1-2		0

<sup>\*</sup> A range is presented, and the actual number of stations per area is jointly determined by EPA, CARB, and the local agency.

Table 14 PM10 Monitoring Requirements for the Valley<sup>^</sup>

		·	PM10					
MSA	County	2018 Population	24-hour 2018 Highest concentration in MSA (μg/m³)*	Number of SLAMS required	SLAMS in MSA			
Stockton-Lodi	San Joaquin	758,744	72	1 – 2	3			
Modesto	Stanislaus	555,624	89	1 – 2	2			
Merced	Merced	279,977	74	0 – 1	1			
Madera	Madera	158,894	159	0 – 1	1			
Fresno	Fresno	1,007,229	117	2 – 4	3			
Hanford- Corcoran	Kings	151,662	131	0 – 1	2			
Visalia- Porterville	Tulare	475,834	153	1 – 2	1			
Bakersfield**	Kern	769,931	157	2 – 4	3			

Data influenced by exceptional events are not included.

November 2018 experienced significant smoke impacts from surrounding wildfires which caused abnormally high PM10 concentrations. Table 14 above shows the highest 24-hour PM10 concentrations that were not influenced by exceptional events. Since the wildfire smoke impacts in 2018 were the result of natural events that do not represent typical ambient PM10 concentrations, the 24-hour PM10 concentrations in the table above represent the District's PM10 attainment status and are appropriate to determine the number of SLAMS for each MSA.

High concentration areas which ambient PM10 concentrations exceed the PM10 NAAQS by 20 percent or more.

Medium concentration areas which ambient PM10 concentrations exceed 80 percent of the PM10 NAAQS.

Low concentration areas which ambient PM10 concentrations are less than 80 percent of the PM10 NAAQS.

These minimum monitoring requirements apply in the absence of a design value.

<sup>\*\*</sup> Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

<sup>^</sup> Highest concentrations are preliminary pending upload and certification of 2018 data from ARB sites.

The District will revisit the number of SLAMS (Table 14) and the sampling frequency (Table 27) in each MSA each year as a part of the annual Network Plan.

Table 15 24-Hour PM10 highest concentrations at each site<sup>^</sup>

MSA	Site Name	2018 Highest Concentration**
	Stockton-Hazelton	187
Stockton-Lodi	Manteca	223
	Tracy-Airport	249
Madagta	Modesto-14th St	224
Modesto	Turlock	238
Merced	Merced-M St	137
Madera	Madera-City	159
	Fresno-Garland**	129
Fresno	Fresno-Drummond	149
	Clovis-Villa	130
Hanford Caroaran	Hanford-Irwin	205
Hanford-Corcoran	Corcoran-Patterson	241
Visalia-Porterville	Visalia-Church St	153
	Oildale	174
Bakersfield	Bakersfield- Golden State/M St	155
	Bakersfield-California	136

Exceptional Events are included. Current Sampling Frequency information is provided in Table 27.

# **PM2.5 Monitoring Requirements**

The San Joaquin Valley is designated nonattainment for PM2.5. Per 40 CFR Part 58 Appendix D Table D-5 the minimum number of PM2.5 sites required per MSA is based on population (see Table 16). Table 17 shows that the District's PM2.5 monitoring network meets the PM2.5 monitoring requirements for the San Joaquin Valley. Additionally, the 2016 – 2018 24-hour PM2.5 and annual design values for each site in the District's PM2.5 network are provided in Table 18.

Table 16 Minimum PM2.5 Monitoring Requirements

		<u>,                                      </u>			
MSA population	Most recent 3-year design value ≥85% of the 24-Hour or the Annual PM2.5 NAAQS*	Most recent 3-year design value <85% of the 24-Hour or the Annual PM2.5 NAAQS*(**)			
>1,000,000	3	2			
500,000- 1,000,000	2	1			
50,000- <500,000	1	0			

<sup>24-</sup>hour PM<sub>2.5</sub> NAAQS is 35 μg/m<sup>3</sup>. The Annual PM2.5 NAAQS is 12 μg/m<sup>3</sup>.

<sup>\*\*</sup> Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 22.

<sup>^</sup> Highest concentrations are preliminary pending upload and certification of 2018 data from ARB sites.

These minimum monitoring requirements apply in the absence of a design value.

Table 17 PM2.5 Monitoring Requirements for the Valley\*

		MIZIO MOME	PM2.5^						
MSA	County	2018 Population	24-hour 2016- 2018 Design Value in MSA (µg/m³)	Annual 2016– 2018 Design Value in MSA (µg/m³)	Number of SLAMS required	Number of SLAMS in MSA	Number of Continuous PM2.5 Monitors in MSA**		
Stockton-Lodi	San Joaquin	758,744	56	13.8	2	2	3		
Modesto	Stanislaus	555,624	63	14.2	2	2	2		
Merced	Merced	279,977	45	13.4	1	2	1		
Madera	Madera	158,894	44	12.8	1	1	1		
Fresno***	Fresno	1,007,229	60	15.0	2	4	6		
Hanford– Corcoran****	Kings	151,662	65	16.8	1	2	2		
Visalia– Porterville	Tulare	475,834	60	16.1	1	1	2		
Bakersfield****	Kern	769,931	63	17.8	2	3	2		

Air quality data may include data influenced by exceptional events and/or data completeness and substitution requirements.

<sup>\*\*</sup> Number of continuous monitors includes regulatory and non-regulatory monitors.

<sup>\*\*\*</sup> The PM2.5 FRM monitor at Fresno-Garland is one of the monitors helping meet the number of PM2.5 SLAMS required in the Fresno MSA.

Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

<sup>^</sup> Design Values are preliminary pending upload and certification of 2018 data from ARB sites.

Table 18 24-Hour and Annual PM<sub>2.5</sub> Maximum Design Values<sup>^</sup>

Table 1	8 24-Hour and A	2016-2018	2016-2018	Max Site in MSA		
MSA	Site Name	24-Hour Design Value	Annual Design Value	24-Hour	Annual	
Stockton-Lodi	Stockton-Hazelton	56	13.8	✓	✓	
Stockton-Loui	Manteca	54	11.5			
Madada	Modesto-14th St	63	13.1	✓		
Modesto	Turlock	58	14.2		✓	
Manad	Merced-M St	43	12.7			
Merced	Merced-Coffee	45	13.4	✓	✓	
Madera	Madera-City	44	12.8	✓	✓	
	Tranquility	38	9.1			
<b>F</b>	Clovis-Villa	50	13.5			
Fresno	Fresno-Pacific	60	15.0	✓	✓	
	Fresno-Garland	58	14.6			
Hanford-	Corcoran– Patterson	65	16.0	✓		
Corcoran	Hanford-Irwin	63	16.8		✓	
Visalia- Porterville	Visalia-Church St	60	16.1	✓	✓	
	Bakersfield– Golden / M St	61	16.4			
Bakersfield	Bakersfield– California	63	16.1	✓		
	Bakersfield– Airport (Planz)	60	17.8	ADD sites	✓	

<sup>^</sup> Design Values are preliminary pending upload and certification of 2018 data from ARB sites

# **PM2.5 Chemical Speciation Site Requirements**

Per CFR 40 Part 58, the Chemical Speciation Network (CSN) includes Speciation Trends Network (STN) stations and supplemental speciation stations that provide chemical species data of fine particulate. Each State must conduct chemical speciation monitoring and analysis at sites that have been designated part of the STN and approved by the Administrator. Monitoring methods and sampling schedules used at the PM2.5 chemical speciation urban trends sites must be approved by the Administrator. Additionally, the sites must include analysis for elements, selected anions and cations, and carbon. Speciation data can be used to support a variety of efforts including:

- Air quality modeling analyses to help track NAAQS attainment progress and emissions controls.
- Aiding the interpretation of health studies by linking health effects to PM2.5 constituents.
- Understanding the effects of atmospheric elements on visibility.
- Assisting with air monitoring network design and siting adjustments.

In addition to the STN requirement, EPA encourages air agencies to operate additional supplemental speciation monitors to meet needs independent of the requirement such as supporting health effects related studies, and developing SIPs. There are seven PM2.5 speciation monitors operating in the District's network. Four (along with two collocated) of the monitors that meet the STN requirement, and two that are supplemental monitors. Details on these PM2.5 speciation monitors are shown in Table 19, and Appendix B.

**Table 19 PM2.5 Speciation Monitors** 

Site Name	Network Affiliation	Monitor Type	FRM/FEM/ ARM/Other	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Frequency	QA Collocated
Modesto– 14th St	CSN Supplemental	SLAMS	Other	PE	N	RS	1:6	
Fresno-	NCore, STN	Other	Other	PE	N,U	RS	1:3	
Garland*	NCore, STN	Other	Other	PE	N,U	RS	1:3	
Visalia– Church St	CSN Supplemental	SLAMS	FRM	PE	N	RS	1:3	
Dokorofiold	STN	SLAMS	Other	PE	N,U	RS	1:3	
Bakersfield– California	CSN, STN	Other	Other	PE	N,U	RS	1:3	
Callionna	CSN, STN	Other	Other	PE	N,U	RS	1:6	<b>√</b> **

PE – Population Exposure N – Neighborhood U – Urban RS – Research TP – Timely/Public Hourly = One sample every hour 1:3 = 1 in 3 day sampling 1:6 = 1 in 6 day sampling QA = Quality Assurance

Per network plan requirements described above, Tables 20 and 21 show the types of monitoring methods, collocated monitors, and monitor types operating in the District's PM monitoring network.

<sup>\*</sup> PM2.5 Speciation monitor information for the Fresno-Garland NCore site is also provided in Table 22.

<sup>\*\*</sup> Two collocated monitors operating.

Table 20 PM Monitors

		FRM/FEM/ARM/Other				QA Collocated				
Site Name	PM10 PM10 PM2.5 (man.) (cont.) (man.)		PM2.5 (man.)	PM2.5 (cont.)	Valu Yes	2.5 Design ue?^ or No	PM10 (man.)	PM10 (cont.)	PM2.5 (man.)	PM2.5 (cont.)
	(mam)	(001111)	(	(GOTILI)	24-Hour NAAQS	Annual NAAQS	(mam)	(oona)	(mam)	(oona)
Stockton– Hazelton	FRM			FEM	Yes	Yes				FEM
Manteca		FEM		FEM	Yes	Yes				
Tracy-Airport		FEM		Non-FEM						
Modesto– 14th St		FEM		FEM	Yes	Yes			FRM	
Turlock	FRM			FEM	Yes	Yes				
Merced– Coffee				FEM	Yes	Yes				
Merced-M St	FRM		FRM		Yes	Yes				
Madera-City		FEM		FEM	Yes	Yes			FRM	
Tranquillity				FEM	Yes	Yes				
Clovis-Villa	FRM	FEM		FEM	Yes	Yes			FRM	
Fresno- Pacific			FRM		Yes	Yes				
Fresno- Drummond	FRM						FRM			
Huron				Non-FEM						
Corcoran– Patterson		FEM	FRM	FEM	Yes	Yes				
Hanford- Irwin	FRM	FEM		FEM	Yes	Yes				
Visalia– Church St		FEM	FRM	Non-FEM						
Porterville				Non-FEM						
Oildale	FRM	FEM								
Bakersfield– Golden / M St	FRM		FRM		Yes	Yes				
Bakersfield– California	FRM		FRM	Non-FEM			FRM	_	FRM	
Bakersfield– Airport (Planz)			FRM		Yes	Yes				
Lebec				Non-FEM						

cont. – Continuous man. – Manual QA = Quality Assurance

Monitoring method and monitor collocation information for the Fresno-Garland NCore site is provided in Table 22.

<sup>^</sup> Design Values are preliminary pending upload and certification of 2018 data from ARB sites

**Table 21 PM Monitors – Monitor Type** 

		Monitor T	vpe	10 111011	QA Collocated			
Site Name	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)
Stockton- Hazelton		SLAMS	SLAMS			SLAMS		
Manteca		SLAMS		SLAMS		SLAMS		
Tracy-Airport		SPM		SLAMS				
Modesto-14th St		SLAMS		SLAMS	SLAMS			
Turlock		SLAMS	SLAMS					
Merced-Coffee		SLAMS						
Merced-M St	SLAMS		SLAMS					
Madera-City		SLAMS		SLAMS	SLAMS			
Tranquillity		SLAMS						
Clovis-Villa	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS			
Fresno-Pacific	SLAMS							
Fresno- Drummond			SLAMS				SLAMS	
Huron		SPM						
Corcoran– Patterson	SLAMS	SLAMS		SLAMS				
Hanford-Irwin		SLAMS	SLAMS	SLAMS				
Visalia–Church St	SLAMS	OTHER		SLAMS				
Porterville		SPM						
Oildale	SLAMS		SLAMS					
Bakersfield– Golden / M St	SLAMS		SLAMS					
Bakersfield- California	SLAMS	OTHER	SLAMS		SLAMS		SLAMS	
Bakersfield– Airport (Planz)	SLAMS							
Lebec		SPM						

cont. - Continuous man. - Manual QA = Quality Assurance

Monitor information for the Fresno-Garland NCore site is provided in Table 22.

#### **NCore**

On October 17, 2006, EPA issued final amendments to the ambient air monitoring requirements for criteria pollutants. These amendments were codified in Title 40 CFR parts 53 and 58 and established a requirement for NCore multi-pollutant monitoring stations to be operational by January 1, 2011. Since ARB's Fresno-First site already met many of the NCore requirements for filter-based and continuous PM2.5, speciated PM2.5, ozone, and meteorological monitoring, CARB submitted an NCore monitoring plan to the EPA in November 2009. The ARB's Fresno-First site was selected by EPA to be an NCore site for the Fresno, CA MSA. In December 2010, CARB installed trace level CO, trace level SO2, trace level NOy, and continuous PM10-2.5 monitors at this site. A gas dilution calibrator, a zero air generator, and digital data loggers were also installed to support NCore monitoring. In January 2012, CARB relocated the Fresno-First site (site identification number 06-019-0008) two blocks north to the Fresno-Garland site (site identification number 06-019-0011). The Fresno-Garland site continues to serve as the NCore site for the Fresno, CA MSA. Details on the parameters being monitored at the NCore site are shown in Table 22 and Appendix B.

Table 22 Fresno-Garland NCore Site

Pollutant	Monitor Type	FRM/FEM/ ARM/Other	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Frequency	QA Collocation
Ozone	SLAMS	FEM	PE	U	NC,RS	Hourly	
NO2	SLAMS	FRM	Max PEI	U	NC,RS	Hourly	
CO	SLAMS	FRM	PE	U	NC,RS	Hourly	
SO2	SLAMS	FEM	PE	U	NC,RS	Hourly	
NOy	SLAMS	Other	PE	U	NC,RS	Hourly	
Toxics	SLAMS	Other	PE	N	RS,TP	Hourly	
PM2.5 (man.)	SLAMS	FRM	HC	N	NC,RS	1:1	
PM2.5 (man.)	SLAMS	FRM	HC,PE, QA	N	NC,RS	1:6	✓
PM2.5 (cont.)	SLAMS	FEM	HC,QA	N	NC,RS	Hourly	✓
PM2.5	Other	Other	PE	N,U	RS	1:3	
Speciation (STN)	Other	Other	PE	N,U	RS	1:3	
PM10 STP (cont.)	SLAMS	FEM	PE	N	NC,RS	Hourly	
PM10-2.5 (cont.)	SLAMS	FEM	PE,QA	N	NC,RS	Hourly	✓

cont. – Continuous man. – Manual PE – Population Exposure HC – Highest Concentration N – Neighborhood U – Urban RS – Research MxPEI – Max Precursor Emissions Impact NC – NAAQS Comparison TP – Timely/Public STP – Standard Temperature and Pressure

Hourly = One sample every hour 1:1 = One sample per day 1:6 = 1 in 6 day sampling

#### **Non-EPA Federal Monitors**

Within the District's air monitoring network are Non-EPA Federal monitors which are located in Sequoia and Kings Canyon National Park and operated by the National Forest Service. The monitors operating at the Sequoia-Ash Mountain AMS are affiliated with the Clean Air Status and Trends Network (CASTNET). CASTNET assesses trends in pollutant concentrations, atmospheric deposition, and ecological effects due to changes in air pollutant emissions. Details on these monitors are shown in Table 23 and Appendix B.

Table 23 Non-EPA Federal Monitors

	Sequoia-Ash Mountain								
Parameter	Site Type	FRM/FEM/ ARM/Other	Spatial Scale	Network affiliation	Basic Monitoring Objective	Current Sampling Frequency			
Ozone	HC, RT	Other	R	CASTNET	NC, RS, TP	Hourly			
PM2.5 (continuous)	HC	Non-FEM	R	None	RS, TP	Hourly			
Meteorology	GB	Other	R	CASTNET	RS, TP	Hourly			
		Sequoi	a-Lower	Kaweah					
Parameter	Site Type	FRM/FEM/ ARM/Other	Spatial Scale	Network affiliation	Basic Monitoring Objective	Current Sampling Frequency			
Ozone	RT	Other	R	None	NC, RS, TP	Hourly			
Meteorology	GB	Other	R	None	RS, TP	Hourly			

HC – High Concentration RT - Regional Transport GB – General Background R - Regional NC – NAAQS Comparison RS – Research TP – Timely/Public Hourly = One sample every hour CASTNET – Clear Air Status and Trends Network

As previously noted, purpose, siting, and operational requirements for each monitor must be met as outlined in Appendices A, C, D, and E of 40 CFR Part 58. Accordingly, this detailed site information is provided in Tables 24 through 28 as well as in Appendix B of this network plan.

Table 24 SLAMS - Site Type

	10		SLAMS -					
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Stockton-Hazelton	HC, PE	GB, QA	HC, PE	HC		PE	PE	
Manteca			HC		HC			
Tracy-Airport	RT				RT	RT		
Modesto-14th St	HC, PE	PE, QA	PE		PE		PE	
Turlock	HC, PE		HC, PE	PE		PE		
Merced-Coffee	HC, PE		PE			PE		
Merced-M St		HC, PE		HC, PE				
Madera-City	HC, GB	HC, QA	PE		PE			
Madera-Pump Yard	HC, GB					PE		PE
Tranquillity	PE		PE					
Fresno-Sky Park	HC, PE, RT					PE		
Clovis-Villa	Max PEI, HC	HC	HC	PE	НС	НС	Max PEI, PE	НС
Fresno-Pacific		PE						
Fresno-Foundry						НС		
Fresno-Drummond	HC,PE, RT			PE, QA		HC		
Parlier	HC, RT					PE		PE
Corcoran-Patterson		HC	HC, PE		HC, PE			
Hanford-Irwin	HC, PE		PE	PE	PE	PE		
Visalia-Church St	GB	HC, PE			PE	PE		
Porterville	HC, PE							
Shafter	GB, PE					PE		PE
Oildale	HC, RT				SO			
Bakersfield-	_	PE		PE				
Golden / M St								
Bakersfield–Westwind						HC		
Bakersfield-California	HC, GB	HC, PE	PE	PE		PE		
Edison	HC, RT					PE		
Bakersfield-Muni	HC					HC	PE	PE
Bakersfield-Airport (Planz)		HC, PE						
Arvin-Di Giorgio	HC, PE							
Maricopa	HC, RT		oulation Expo		– Highest (			

cont. – Continuous man. – Manual PE – Population Exposure HC – Highest Concentration RT – Regional Transport GB – General/Background QA – QA Collocation SO – Source Oriented Site Type information for the Fresno-Garland NCore site is provided in Table 22.

Table 25 SLAMS - Spatial Scale

Table 25 SLAMS - Spatial Scale								
Site	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Stockton-Hazelton	N		N	N		N	N	
Manteca			N		N			
Tracy-Airport	R				R	R		
Modesto-14th St	N	N	N		N		N	
Turlock	N		N	N		N		
Merced-Coffee	N		Ν			N		
Merced-M St		N		N				
Madera-City	N	N	N		N			
Madera-Pump Yard	N					Ν		N
Tranquillity	U		U					
Fresno–Sky Park	N					N		
Clovis-Villa	N	N	N	N	N	N	N	N
Fresno-Pacific		N						
Fresno–Foundry						МС		
Fresno-Drummond	N			N		N		
Parlier	N					N		N
Corcoran-Patterson		N	Ν		N			
Hanford–Irwin	N		N	N	N	N		
Visalia-Church St	N	N			N	N		
Porterville	N							
Shafter	N					N		N
Oildale	U				MD			
Bakersfield-Golden / M St		MC		MC				
Bakersfield-Westwind						MC		
Bakersfield-California	N	N		N		N		
Edison	N					N		
Bakersfield-Muni	N					N	N	N
Bakersfield-Airport (Planz)		N						
Arvin-Di Giorgio	N							
Maricopa	N							
N – Neighborhood II – Urban R – Region	al MC	Microcol	- MD M	انططام مممام		Continu		-

N - Neighborhood U - Urban R - Regional MC - Microscale MD - Middle scale cont. - Continuous man - Manual

Spatial Scale information for the Fresno-Garland NCore site is provided in Table 22.

Table 26 SLAMS - Basic Monitoring Objective

Table 26 SLAMS – Basic Monitoring Objective								
Site	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Stockton– Hazelton	NC,RS TP		NC,RS,TP	NC, RS		NC, RS, TP	NC, RS, TP	
Manteca			NC,RS,TP		NC,RS,TP			
Tracy– Airport	NC,RS,TP				NC,RS,TP	NC, RS, TP		
Modesto– 14th St	NC,RS,TP	NC, RS	NC,RS,TP		NC,RS,TP		NC, RS, TP	
Turlock	NC,RS,TP		NC,RS,TP	NC,RS		NC, RS, TP		
Merced– Coffee	NC,RS,TP		NC,RS,TP			NC, RS,TP		
Merced-M St		NC, RS		NC RS				
Madera– City	NC,RS,TP	NC,RS	NC,RS,TP		NC,RS,TP			
Madera– Pump Yard	NC,RS,TP					NC, RS, TP		RS
Tranquillity	NC,RS,TP		NC,RS,TP					
Fresno–Sky Park	NC,RS,TP					NC, RS, TP		
Clovis-Villa	NC,RS,TP	NC,RS	NC,RS,TP	NC,RS	NC,RS,TP	NC,RS, TP	NC, RS, TP	RS
Fresno- Pacific		NC,RS						
Fresno- Foundry						NC,RS,TP		
Fresno- Drummond	NC,RS,TP			NC, RS		NC		
Parlier	NC,RS,TP					NC, RS, TP		RS
Corcoran– Patterson		NC,RS	NC,RS,TP		NC,RS,TP			
Hanford- Irwin	NC,RS,TP		NC,RS,TP	NC, RS	NC,RS,TP	NC,RS,TP		
Visalia– Church St	NC,RS,TP	NC, RS			NC,RS,TP	NC, RS,TP		
Porterville	NC,RS,TP							
Shafter	NC,RS,TP					NC, RS,TP		RS
Oildale	NC,RS TP				NC,RS,TP			
Bakersfield– Golden / M St		NC, RS		NC, RS				
Bakersfield– Westwind						NC, RS, TP		
Bakersfield- California	NC, RS, TP	NC, RS		NC, RS		NC, RS, TP		
Edison	NC,RS,TP					NC, RS,TP		

**Table 26 SLAMS – Basic Monitoring Objective (continued)** 

Site	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Bakersfield- Muni	NC,RS,TP					NC, RS, TP	NC,RS, TP	RS
Bakersfield– Airport (Planz)		NC, RS						
Arvin– Di Giorgio	NC,RS,TP							
Maricopa	NC,RS,TP							

NC – NAAQS Comparison RS – Research TP – Timely/Public cont. – Continuous man. – Manual Basic Monitor Objective information for the Fresno-Garland NCore site is provided in Table 22.

Table 27 SLAMS - Current Sampling Frequency

	Ia	ble 27 SL	.AMS – Ci	ırrent Sar	npling Fre	equency		
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Stockton- Hazelton	Hourly		Hourly	1:6		Hourly	Hourly	
Manteca			Hourly		Hourly			
Tracy-Airport	Hourly				Hourly	Hourly		
Modesto– 14th St	Hourly	1:12	Hourly		Hourly		Hourly	
Turlock	Hourly		Hourly	1:6		Hourly		
Merced– Coffee	Hourly		Hourly			Hourly		
Merced-M St		1:3		1:6				
Madera-City	Hourly	1:12	Hourly		Hourly			
Madera- Pump Yard	Hourly					Hourly		Hourly
Tranquillity	Hourly		Hourly					
Fresno–Sky Park	Hourly					Hourly		
Clovis-Villa	Hourly	1:3	Hourly	1:6	Hourly	Hourly	Hourly	Hourly
Fresno- Pacific		1:3						
Fresno- Foundry						Hourly		
Fresno- Drummond	Hourly			1:6		Hourly		
Parlier	Hourly					Hourly		Hourly
Corcoran– Patterson		1:3	Hourly		Hourly			
Hanford-Irwin	Hourly		Hourly	1:6	Hourly	Hourly		
Visalia– Church St	Hourly	1:3			Hourly	Hourly		
Porterville	Hourly							
Shafter	Hourly		_			Hourly	_	Hourly

**Table 27 SLAMS – Current Sampling Frequency (continued)** 

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH
Oildale	Hourly				Hourly			
Bakersfield– Golden / M St		1:3		1:6				
Bakersfield– Westwind						Hourly		
Bakersfield– California	Hourly	1:1		1:6		Hourly		
Edison	Hourly					Hourly		
Bakersfield- Muni	Hourly					Hourly	Hourly	Hourly
Bakersfield– Airport (Planz)		1:3						
Arvin–Di Giorgio	Hourly							
Maricopa	Hourly						·	

cont. - Continuous man

Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 22.

# Table 28 SPM (PM2.5 Continuous)

Site Name	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Schedule
Tracy-Airport	RT	R	TP	Hourly
Huron	PE	N	TP	Hourly
Porterville	PE	N	TP	Hourly
Lebec	PE	N	TP	Hourly

PE – Population Exposure RT – Regional Transport N – Neighborhood

od R – Regional

Timely/Public

Hourly = One sample every hour

man. - Manual

Hourly = One sample every hour

<sup>1:1 =</sup> One sample per day

<sup>1:3 = 1</sup> in 3 day sampling

<sup>1:6 = 1</sup> in 6 day sampling

# IMPROVEMENTS AND PLANNED CHANGES TO THE DISTRICT'S AIR MONITORING NETWORK

The Valley air monitoring network is continually being improved. MSA/CBSA-specific changes are generally described below. Before any action is taken on the planned changes noted in this section, the District will work with CARB and EPA, as appropriate, to address necessary requirements for documentation. A summary of the planned changes to the District's air monitoring network during 2019/2020 is provided in Table 29 below.

# Planned Improvements and Other Changes Scheduled for 2019/2020

# Fresno-Foundry Near-Road Site

For CBSAs with populations of 1,000,000 or more, EPA requires that one PM2.5 monitor and one CO monitor be collocated at a near-road NO2 site. Currently, Fresno is the only CBSA within the District that is comprised of more than 1,000,000 people, thus the District is required to place a CO monitor and PM2.5 monitor at a near-road NO2 monitoring station. The District will begin monitoring CO and PM2.5 at the Fresno-Foundry near-road site by the end of 2019.

## **Visalia-Airport Site**

The operation of lower air profilers (LAP) will no longer be required in PAMS networks. Although the information the LAPs provided has been useful for air quality forecasting and modeling purposes, their operation and maintenance has proven to be cost prohibitive and burdensome. As such, the District has decided to discontinue use of the LAP. The Visalia-Airport site in Tulare County currently only operates a LAP and meteorological analyzers. Since the Visalia-Airport site exists primarily to support the PAMS program through the operation of its LAP, and since the LAP has been discontinued, the District will close down the site in its entirety. Since meteorology is already measured at the nearby Visalia airport and Visalia-Church air monitoring site, if left operating, the data being collected at the Visalia-Airport site could be considered redundant in nature.

# Fresno-Sierra Sky Park

Vegetation to the south and southwest of the Fresno-Sky Park site (06-019-0242) has grown to the point of disrupting wind flow from the south, southwest and the southeast. In addition, the construction of new homes has encroached upon the perimeter of the site causing potential obstructions. Based on these conditions, the site is no longer meeting the EPA's siting requirements for SLAMS monitors. The District has made efforts to resolve the landscaping issues with adjacent landowners, but has been unsuccessful in gaining cooperation for the needed changes to the landscaping. In the short term, the District will continue to operate the site as is and apply in the EPA AQS database the qualifier flag 'SX' (which means 'Does not meet siting criteria') to all

gaseous data going forward to let users of the data know there are siting issues and to use the data with caution. The District will continue to make efforts to resolve the siting issues with adjacent land owners and evaluate other potential options for this site.

## **All other Sites**

No other changes are proposed at this time to any other sites in the District.

**Table 29 Summary of Proposed Changes to the Air Monitoring Network** 

CBSA: Stockton	County: San Joac	ıµin		
Site Name	Operating Agency	Planned Changes		
Stockton-Hazelton	CARB	ARB plans to replace the FRM PM10 Hi-Vol unit with an FEM PM10 BAM unit by the end of 2018.		
Manteca	SJVAPCD	None		
Tracy-Airport	SJVAPCD	None		
CBSA: Modesto	County: Stanislau	IS		
Site Name	Operating Agency	Planned Changes		
Modesto-14th St	CARB	None		
Turlock	SJVAPCD	None		
CBSA: Merced	County: Merced			
Site Name	Operating Agency	Planned Changes		
Merced-Coffee	SJVAPCD	None		
Merced-M St	SJVAPCD	None		
CBSA: Madera	County: Madera			
Site Name	Operating Agency	Planned Changes		
Madera-City	SJVAPCD	None		
Madera-Pump Yard	SJVAPCD	None		
CBSA: Fresno	County: Fresno			
Site Name	Operating Agency	Planned Changes		
Tranquillity	SJVAPCD	None		
Fresno-Sky Park	SJVAPCD	None		
Clovis-Villa	SJVAPCD	None		
Fresno-Garland	CARB	ARB stopped monitoring lead in December 2017 and closed the lead monitor in May 2018.		
Fresno-Drummond	SJVAPCD	None		
Fresno-Pacific	SJVAPCD	None		
Fresno-Foundry (near-road)	SJVAPCD	District to add CO and PM2.5 monitoring end of 2019		
Parlier	SJVAPCD	None		
CBSA: Kings	County: Kings			
Site Name	Operating Agency	Planned Changes		
Hanford-Irwin	SJVAPCD	None		
Corcoran-Patterson	SJVAPCD	None		

Table 29 Summary of Proposed Changes to the Air Monitoring Network (cont'd)

CDCA: Visalia Bartarvilla County: Tulara				
CBSA: Visalia-Porterville	County: Tulare			
Site Name	Operating Agency	Planned Changes		
Visalia-Airport	SJVAPCD	LAP and site closure		
Visalia-Church St	CARB	None		
Sequoia-Lower Kaweah	NPS	None		
Sequoia-Ash Mountain	NPS	None		
Porterville	SJVAPCD	None		
CBSA: Bakersfield	County: Kern (Valley Portion Only)			
Site Name	Operating Agency	Planned Changes		
Shafter	Shared	None		
Oildale	CARB	None		
Arvin-Di Giorgio	CARB	A permanent air monitoring shelter may soon be built since EPA approved CARB's relocation request for monitoring in Arvin.		
Bakersfield-California	CARB	None		
Bakersfield-Golden State/M St	SJVAPCD	None		
Bakersfield-Westwind (near-road)	SJVAPCD	This site became operational in January 2019.		
Bakersfield-Muni	SJVAPCD	None		
Bakersfield-Airport (Planz)	CARB	None		
Edison	CARB	None		
Maricopa	SJVAPCD	None		
Lebec	SJVAPCD	None		

#### DATA SUBMISSION REQUIREMENTS

Air Quality and Precision data are required to be submitted to EPA 90 days after the end of the calendar quarter once all air quality assurance checks are completed. Accuracy data is submitted to EPA by CARB as part of their scheduled audits. CARB is responsible for certifying data from all CARB-operated air monitoring sites, as well as weighing and certifying filter-based measurements from District operated sites. The measurements are weighed at CARB's laboratory in Sacramento, CA. For information on CARB's data certification, see CARB's air monitoring network plan at <a href="http://www.arb.ca.gov/aqd/amnr/amnr.htm">http://www.arb.ca.gov/aqd/amnr/amnr.htm</a>. The District is responsible for certifying data from all District-operated air monitoring sites. The District certified its 2018 data on April 29, 2019.

#### **ACRONYMS AND ABBREVIATIONS**

AQI: Air Quality Index
AQS: Air Quality System
BAM: Beta Attenuation Monitor

CAA: Clean Air Act

CASTNET: Clean Air Status and Trends Network
CARB: California Air Resources Board
CBSA: Core-Based Statistical Area
CFR: Code of Federal Regulations

CRPAQS: California Regional Particulate Air Quality Study

CO: Carbon Monoxide

CSA: Combined statistical area

District: San Joaquin Valley Air Pollution Control District

BAM: Beta Attenuation Monitor

EPA: U.S. Environmental Protection Agency

FEM: Federal Equivalent Method FRM: Federal Reference Method

LAP: Lower Air Profiler

MSA: Metropolitan statistical area

NAAQS: National Ambient Air Quality Standard

NCore: National Core

NMH: Non-Methane Hydrocarbons

NO: Nitrogen Oxide
NO2: Nitrogen Dioxide
NOx: Oxides of Nitrogen
NOy: Reactive Nitrogen
NPS: National Park Service

O3: Ozone

PAMS: Photochemical Assessment Monitoring Station

PM: Particulate Matter

PM2.5: Particulate Matter 2.5 microns or less in diameter PM10: Particulate Matter 10 microns or less in diameter

SLAMS: State and Local Air Monitoring Station

SJVAPCD: San Joaquin Valley Air Pollution Control District

SMS: Smoke Management System

SO2: Sulfur Dioxide

SPM: Special Purpose Monitor STN: Speciated Trends Network

TEOM: Tapered Element Oscillating Microbalance

VOC: Volatile Organic Compounds

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San Joaquin Valley Air Pollution Control District	June 3, 2019
APPENDIX A:	
Air Monitoring Site Descriptions	
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San Joaquin Valley Air Pollution Control District	June 3, 2019
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Appendix A: Air Monitoring Site Descriptions	

## Stockton-Hazelton

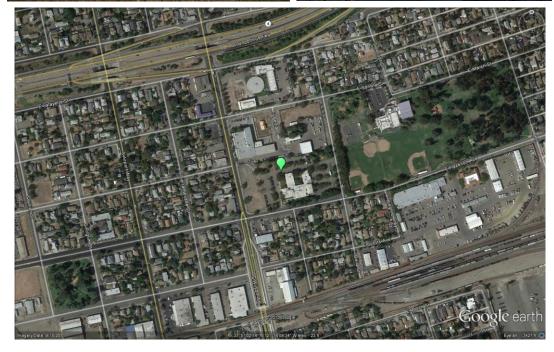
The Stockton-Hazelton monitoring site is operated by CARB and is located in the Stockton, CA metropolitan area. It began operating in January 1976. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in an urban area. The site also monitors CO, NO2, toxics, and meteorology.

Site name:	Stockton-Hazelton
AQS ID:	06-077-1002
County:	San Joaquin
Street Address:	1601 E Hazelton St, Stockton CA
	95205
Geographic Coordinates:	37.9507 N, -121.2689 W
Distance to road (meters):	62 m (north)
Traffic Count (AADT; Year):	4,000; 2014*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Stockton-Lodi

<sup>\*</sup>Traffic count estimated by City of Stockton Public Works Traffic Engineering Division (2014)







## Manteca

The Manteca monitoring site is located in Manteca, CA and operated by SJVAPCD. It became operational in November 2010. The purpose of the site is to monitor representative concentrations of PM2.5 and PM10 from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Manteca
AQS ID:	06-077-2010
County:	San Joaquin
Street Address:	530 Fishback Rd, Manteca CA 95337
Geographic Coordinates:	37.793392 N, -121.247874 W
Distance to road (meters):	12 m (west)
Traffic Count (AADT; Year):	10,224; 2015*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Stockton-Lodi

<sup>\*</sup>Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120.
Source: San Joaquin Council of Governments, 2016 Monitoring and Conformance Report







# **Tracy-Airport**

The Tracy-Airport monitoring site, located in Tracy, CA, was part of a settlement from a lawsuit between the District and CARB that took place in 1995. This air monitoring station was installed for the purpose of monitoring transport of air pollution from the Bay Area to the San Joaquin Valley. The site became operational in 1994 and was operated by CARB until June 1995. The District began operating the site in 1996. The site has been moved several times over the years and became operational at its current location in January 2006. The site monitors transport of ozone, NO2, PM2.5, and PM10 from upwind and nearby urban areas. The site also measures meteorology.

Site name:	Tracy-Airport
AQS ID:	06-077-3005
County:	San Joaquin
Street Address:	5749 S Tracy Blvd, Tracy CA 95376
Geographic Coordinates:	37.682635 N, -121.442495 W
Distance to road (meters):	700 m (east)
Traffic Count (AADT; Year):	4,063; 2014*
Ground Cover:	Dirt and Gravel
Representative Statistical Area (CBSA):	Stockton-Lodi

<sup>\*</sup>Traffic count for nearest roads: Linne Rd and Corral Hollow Rd.
Source: San Joaquin Council of Governments, 2016 Monitoring and Conformance Report







# Modesto-14th St

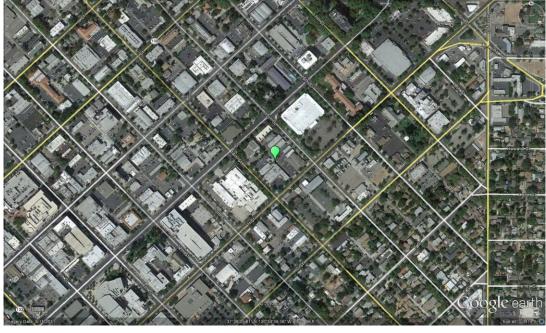
The Modesto-14<sup>th</sup> St monitoring site is operated by CARB and is located in the Modesto, CA metropolitan area. It began operating in January 1981. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in local and upwind urban areas. The site also monitors CO, PM2.5 Speciation, and meteorology.

Site name:	Modesto-14 <sup>th</sup> St
AQS ID:	06-099-0005
County:	Stanislaus
Street Address:	814 14th St, Modesto CA 95354
Geographic Coordinates:	37.6421 N, -120.9942 W
Distance to road (meters):	50 m (southwest)
Traffic Count (AADT; Year):	122,000; 2014*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Modesto

<sup>\*</sup> Traffic count for nearest roads: H Street / CA Route 99. Source: Caltrans 2017 AADT







## Turlock

The Turlock monitoring site is operated by SJVAPCD and is located in Turlock, CA. It began operating in April 1992. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 from upwind urban areas. The site also monitors NO2, and meteorology.

Site name:	Turlock
AQS ID:	06-099-0006
County:	Stanislaus
Street Address:	900 S Minaret Ave, Turlock CA 95380
Geographic Coordinates:	37.488317 N, -120.836008 W
Distance to road (meters):	40 m (northeast)
Traffic Count (AADT; Year):	742; 2015*
Ground Cover:	Gravel
Representative Statistical Area (CBSA):	Modesto

<sup>\*</sup> Traffic count for Minaret Ave. between East Ave. and Berkley Ave. Five-day average two-way traffic. Source: City of Turlock Engineering Division 2015







# Merced-M St

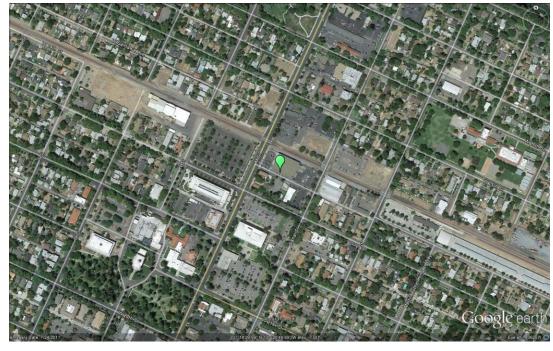
The Merced-M St monitoring site is operated by SJVAPCD and is located in Merced, CA. It began operating in April 1999. The purpose of the site is to monitor representative concentrations of PM2.5 and PM10 responses from upwind urban areas.

Site name:	Merced-M St
AQS ID:	06-047-2510
County:	Merced
Street Address:	2334 M St, Merced CA 95340
Geographic Coordinates:	37.30832 N, -120.480456 W
Distance to road (meters):	55 m (northwest)
Traffic Count (AADT; Year):	51,000; 2014*
Ground Cover:	Paved, gravel
Representative Statistical Area (CBSA):	Merced

<sup>\*</sup>Traffic count for nearest roads: R St / CA Route 99. Source: Caltrans 2017 AADT







# **Merced-Coffee**

The Merced-Coffee monitoring site is operated by SJVAPCD and is located in the Merced, CA. It began operating in October 1991. The purpose of the site is to monitor representative concentrations of ozone and PM2.5 responses from upwind urban areas. The site also monitors NO2 and meteorology.

Merced-Coffee
06-047-0003
Merced
385 S. Coffee St., Merced CA 95340
37.281853 N, -120.433671 W
15 m (east)
42,500; 2014*
Vegetative, dirt and gravel
Merced

\*Traffic count for nearest roads: Childs Ave / CA Route 99. Source: Caltrans 2016 AADT







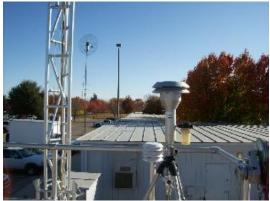
# **Madera-City**

The Madera-City monitoring site is operated by SJVAPCD and is located in the city of Madera, CA. It began operating in June 2010. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, PM10. The site also monitors meteorology.

Site name:	Madera-City
AQS ID:	06-039-2010
County:	Madera
Street Address:	28261 Avenue 14, Madera CA 93638
Geographic Coordinates:	36.9532 N, -120.0342 W
Distance to road (meters):	70 m (south)
Traffic Count (AADT; Year):	386; 2017*
Ground Cover:	Paved, dirt, and vegetative
Representative Statistical Area (CBSA):	Madera

<sup>\*</sup>Traffic count for nearest roads: Avenue14 west of Road 29, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.







# **Madera-Pump Yard**

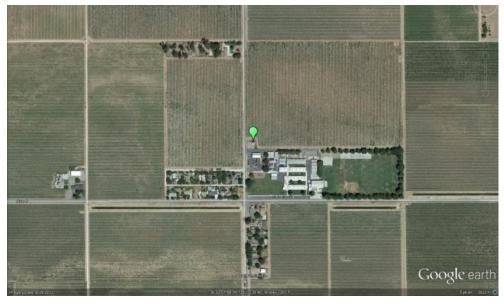
The Madera-Pump Yard monitoring site is operated by SJVAPCD and is located in southern Madera County. It began operating in July 1997. This site was established as a Type 1 site for the Photochemical Assessment Monitoring Stations (PAMS) program, and located in an area upwind of Fresno essentially void of upwind or local ozone precursor emissions influences. This site monitors ozone, NO2, NMH, Speciated-VOC, and meteorology for the PAMS program.

Site name:	Madera-Pump Yard
AQS ID:	06-039-0004
County:	Madera
Street Address:	Avenue 8 and Road 29 1/2, Madera
	CA 93637
Geographic Coordinates:	36.867125 N, -120.010158 W
Distance to road (meters):	20 m (west)
Traffic Count (AADT; Year):	2,980; 2017*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Madera

<sup>\*</sup>Traffic count for nearest roads: Avenue 7 west of CA Route 99, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.







# **Tranquillity**

The Tranquillity monitoring site is located in western Fresno County. It began operating in September 2009 and is operated by SJVAPCD. The purpose of this site is to monitor representative background and rural pollutant concentrations of ozone and PM2.5. The site also monitors meteorology.

Site name:	Tranquillity
AQS ID:	06-019-2009
County:	Fresno
Street Address:	32650 W Adams, Tranquillity CA
	93668
Geographic Coordinates:	36.6008 N, -120.3822 W
Distance to road (meters):	200 m (south)
Traffic Count (AADT; Year):	2,292; 2018*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup> Raw traffic count for nearest roads: Northbound Derrick Ave between W Nebraska Ave and West Mountain View Ave. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.







# Fresno-Sierra Sky Park

The Fresno-Sierra Sky Park monitoring site is operated by SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in July 1986. The purpose of the site is to monitor representative concentrations of ozone responses in an urban area. In addition to ozone, the site also monitors NO2 and meteorology.

Site name:	Fresno-Sky Park
AQS ID:	06-019-0242
County:	Fresno
Street Address:	4508 Chennault Ave, Fresno CA
	93722
Geographic Coordinates:	36.841592 N, -119.874739 W
Distance to road (meters):	12 m (west)
Traffic Count (AADT; Year):	15,626; 2018*
Ground Cover:	Gravel, dirt
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: Spruce Ave east of Milburn Ave Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.







## Clovis-Villa

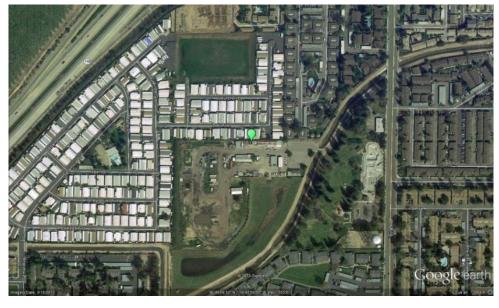
The Clovis-Villa monitoring site is operated by SJVAPCD and is located in the northeastern portion of the Fresno, CA metropolitan area. It began operating in September 1990. This site is a PAMS Type 2 site, a site intended to measure maximum ozone precursor emissions. The site monitors ozone, CO, NO2, NMH and speciated-VOC, and meteorology for the PAMS program. PM2.5 and PM10 are also monitored at the site.

Site name:	Clovis-Villa
AQS ID:	06-019-5001
County:	Fresno
Street Address:	908 N Villa Ave, Clovis CA 93612
Geographic Coordinates:	36.819449 N, -119.716433 W
Distance to road (meters):	260 m (east)
Traffic Count (AADT; Year):	13,890; 2008*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

\*Raw traffic count in a 24-hour period: Eastbound Bullard Ave/Villa Ave intersection, Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013 (latest available)







## Fresno-Garland

The Fresno-Garland monitoring site is a National Core (NCore) site operated by CARB and is located in the Fresno, CA metropolitan area. It began operating in December 2011. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in an urban area. The site also monitors PM10-2.5, PM2.5 Speciation, CO, NO2, NOy, SO2, Toxics, and meteorology.

Site name:	Fresno-Garland
AQS ID:	06-019-0011
County:	Fresno
Street Address:	3727 N First St, Ste.104, Fresno CA
Street Address.	93726
Geographic Coordinates:	36.7853 N, -119.7732 W
Distance to road (meters):	30 m (south)
Traffic Count (AADT; Year):	7,520; 2011*
Ground Cover:	Gravel covered tar paper with
	wooden deck walkways
Representative Statistical Area (CBSA):	Fresno

\*Raw traffic count in a 24-hour period for nearest roads: First St near Dakota Ave Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013 (latest available).







# Fresno-Pacific

The Fresno-Pacific monitoring site is operated by SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in January 2000. The purpose of the site is to monitor representative PM2.5 concentrations in an urban area.

Site name:	Fresno-Pacific
AQS ID:	06-019-5025
County:	Fresno
Street Address:	1716 Winery Ave, Fresno, CA 93727
Geographic Coordinates:	36.7263 N, -119.7330 W
Distance to road (meters):	40 m (east)
Traffic Count (AADT; Year):	8,540; 2018*
Ground Cover:	Rubber roof coating
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: Butler Ave/Winery Ave intersection Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.







# Fresno-Foundry

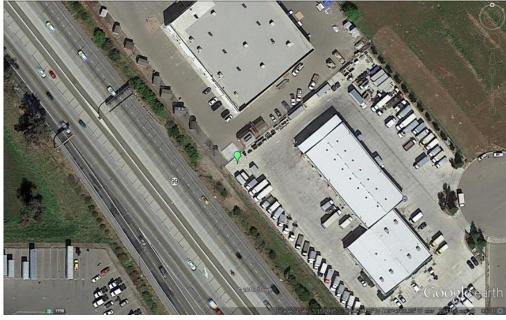
The Fresno-Foundry near-road NO2 monitoring site is operated by SJVAPCD and is located adjacent to Highway 99 in the Fresno, CA metropolitan area. It began operating in January 2016. The purpose of the site is to monitor representative maximum 1–hour NO<sub>2</sub> concentrations near a high traffic roadway in an urban area. In addition to NO<sub>2</sub>, the site also monitors meteorology.

Site name:	Fresno-Foundry
AQS ID:	06-019-2016
County:	Fresno
Street Address:	2482 Foundry Park Ave, Fresno, CA 93706
Geographic Coordinates:	N 36.710833, W -119.7775
Distance to road (meters):	16 to 19 meters
Traffic Count (AADT; Year):	117,000; 2017*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

\*Traffic count for nearest roads: CA Route 99 and Jensen Ave off-ramp. Source: Caltrans (2017)







## Fresno-Drummond

The Fresno-Drummond monitoring site is operated by SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in July 1984. The purpose of the site is to monitor representative concentrations of ozone responses in an urban area. In addition to ozone, the site also monitors PM10, NO2, and meteorology.

Site name:	Fresno-Drummond
AQS ID:	06-019-0007
County:	Fresno
Street Address:	4706 E Drummond Ave, Fresno CA 93725
Geographic Coordinates:	36.705474 N, -119.741332 W
Distance to road (meters):	50 m (north)
Traffic Count (AADT; Year):	27,251; 2018*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: Jensen Ave between Chestnut Ave and Maple Ave. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.







#### **Parlier**

The Parlier monitoring site is operated by SJVAPCD and is located 20 miles southeast of the Fresno, CA metropolitan area. It began operating in June 1983. The purpose of the site, as a PAMS Type 3 site, is to monitor maximum ozone concentrations and ozone responses from upwind urban areas. The site also monitors NO2, NMH, speciated-VOC, and meteorology for the PAMS program.

Site name:	Parlier
AQS ID:	06-019-4001
County:	Fresno
Street Address:	9240 S Riverbend Ave, Parlier CA
	93648
Geographic Coordinates:	36.597442 N, -119.503659 W
Distance to road (meters):	100 m (east)
Traffic Count (AADT; Year):	21,260; 2018*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: E Manning Ave between S Mendocino Ave and S Newmark Ave. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.







## Huron

Huron, CA is located in southwestern Fresno County, and is about 40 miles southwest of Fresno, CA, with the coastal mountain range just to the west. North-south air flow is virtually unobstructed. This monitoring site was established in September 2009 in order to comply with Assembly Bill (AB) 841. This site monitors PM2.5 and meteorology.

Site name:	Huron
AQS ID:	06-019-2008
County:	Fresno
Street Address:	16875 4th St, Huron, CA 93234
Geographic Coordinates:	36.2363 N, -119.7656 W
Distance to road (meters):	100 m (north)
Traffic Count (AADT; Year):	3,300; 2017*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Traffic count for nearest roads: CA Route 269 / CA Route 198. Source: Caltrans 2017







## Hanford-Irwin

The Hanford-Irwin monitoring site is operated by SJVAPCD and is located 51 miles south of the Fresno, CA metropolitan area. The site began operating in October 1993. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, PM10, and NO2 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Hanford-Irwin
AQS ID:	06-031-1004
County:	Kings
Street Address:	807 S Irwin St, Hanford CA 93230
Geographic Coordinates:	36.31567 N, -119.643447 W
Distance to road (meters):	60 m (east)
Traffic Count (AADT; Year):	9,647; 2016*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Hanford – Corcoran

<sup>\*</sup>Traffic count for nearest roads: Hanford-Armona Rd east of S Williams St Source: City of Hanford Public Works - Engineering, Traffic Counts Volume Summary 2017 – City of Hanford.







### **Corcoran-Patterson**

The Corcoran-Patterson monitoring site is operated by SJVAPCD and is located 67 miles south of the Fresno, CA metropolitan area. It began operating in October 1996. The site measures representative concentrations of PM10 and PM2.5. This site also monitors meteorology.

Site name:	Corcoran-Patterson
AQS ID:	06-031-0004
County:	Kings
Street Address:	1520 Patterson Ave, Corcoran CA 93212
Geographic Coordinates:	36.102244 N, -119.56565 W
Distance to road (meters):	30 m (east)
Traffic Count (AADT; Year):	2,900; 2017*
Ground Cover:	Dirt, gravel
Representative Statistical Area (CBSA):	Hanford – Corcoran

<sup>\*</sup>Traffic count for nearest roads: Junction of CA Route 43 / CA Route 137. Source: Caltrans 2017.







# **Visalia-Airport**

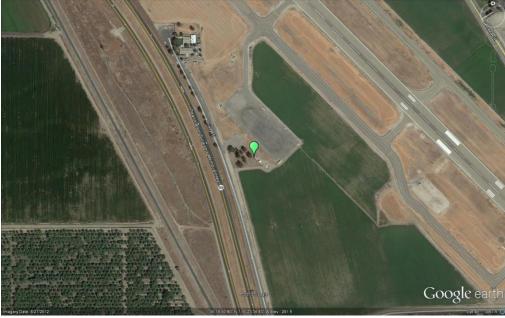
The Visalia-Airport monitoring site is operated by SJVAPCD and serves as a meteorological site monitoring air temperature and relative humidity at the surface. It began reporting official meteorological data in July 1998.

Visalia-Airport
06-107-3000
Tulare
9501 W Airport Dr, Visalia, CA 93277
36.314159 N, -119.393071 W
100 m (west)
66,000; 2017*
Dirt, vegetative
Visalia – Porterville

<sup>\*</sup>Traffic count for nearest roads: Junction of CA Route 99 and CA Route 198 Source: Caltrans 2017.







## Visalia-Church St

The Visalia-Church St monitoring site is operated by CARB. It began operating in January 1979. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 from upwind and nearby urban areas. The site also monitors NO2, PM2.5 Speciation, and meteorology.

Site name:	Visalia-Church St
AQS ID:	06-107-2002
County:	Tulare
Street Address:	310 N Church St, Visalia CA 93291
Geographic Coordinates:	36.3325 N, -119.2909 W
Distance to road (meters):	25 m (west)
Traffic Count (AADT; Year):	10,000; 2017*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Visalia – Porterville

<sup>\*</sup>Traffic count for nearest roads: N Court St and W School Ave Source: Caltrans AADT 2017.







## **Porterville**

The Porterville air monitoring site became operational in March 2010 and is operated by SJVAPCD. The purpose of this site is to monitor ozone, PM2.5, and meteorology.

Site name:	Porterville
AQS ID:	06-107-2010
County:	Tulare
Street Address:	1839 S Newcomb St, Porterville CA 93257
Geographic Coordinates:	36.0310 N, -119.0550 W
Distance to road (meters):	100 m (south)
Traffic Count (AADT; Year):	24,800; 2017*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Visalia-Porterville

<sup>\*</sup>Ahead AADT traffic count for nearest roads: Junction CA Route 190/CA Route 65. Source: Caltrans 2017.







## **Sequoia-Ash Mountain**

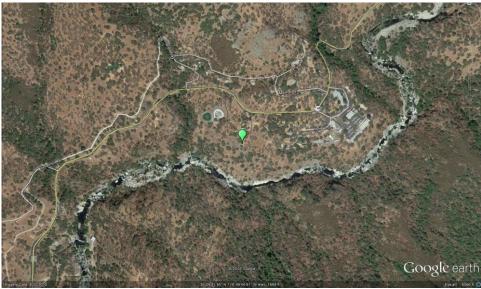
The Ash Mountain monitoring station is operated by Sequoia and Kings Canyon National Park and is located at the southern entrance of the Park at 1,500-feet elevation. It began operating in July 1999, though the site has been relocated several times over the years. The site demonstrates the ozone concentrations in the foothills. The site also monitors PM2.5 and meteorology.

Site name:	Sequoia-Ash Mountain
AQS ID:	06-107-0009
County:	Tulare
Street Address:	Ash Mountain, Sequoia and Kings Canyon National Park 47050 Generals Hwy, Three Rivers, CA 93271
Geographic Coordinates:	36.4894 N, -118.8290 W
Distance to road (meters):	120 m (north)
Traffic Count (AADT; Year):	2,300; 2017*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Visalia – Porterville

\*Traffic count for nearest roads: CA Route 198 / Sequoia National Park boundary. Source: Caltrans Back AADT 2017







## Sequoia-Lower Kaweah

The Lower Kaweah monitoring station is operated by Sequoia and Kings Canyon National Park and is located at the southern entrance of the Park at 6,200-feet elevation. It began operating in January 1987. The site demonstrates the ozone concentrations in a rural area. The site also monitors meteorology.

Site name:	Sequoia-Lower Kaweah
AQS ID:	06-107-0006
County:	Tulare
Street Address:	Giant Forest, Sequoia National Park, 47050 Generals Highway, Three Rivers, CA 93271
Geographic Coordinates:	36.5661 N, -118.7776 W
Distance to road (meters):	380 m (southeast)
Traffic Count (AADT; Year):	2,300; 2017*
Ground Cover:	Dirt, vegetation
Representative Statistical Area (CBSA):	Visalia – Porterville

\*Traffic count for nearest roads: CA Route 198 / Sequoia National Park boundary. Source: Caltrans Back AADT 2017







### **Shafter**

The Shafter monitoring site is a shared site operated by CARB and SJVAPCD and is located 18 miles northwest of the Bakersfield, CA metropolitan area. It began operating in January 1989. This site was established as a PAMS Type 1 site, located in an area upwind of Bakersfield and not to be influenced by upwind or local ozone precursor emissions. In addition to ozone, the site also monitors NO2, NMH, speciated-VOC and meteorology for the PAMS program.

Site name:	Shafter
AQS ID:	06-029-6001
County:	Kern
Street Address:	578 Walker St, Shafter CA 93263
Geographic Coordinates:	35.5034 N, -119.2726 W
Distance to road (meters):	10 m (southwest)
Traffic Count (AADT; Year):	4,002; 2018*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Central Ave and Walker St. Source: Kern Council of Governments.







## Oildale

The Oildale monitoring site is operated by CARB and is located 6 miles north of Bakersfield, CA within the metropolitan area. It began operating in January 1980. The purpose of the site is to monitor representative concentrations of ozone and PM10. The site also monitors meteorology.

Site name:	Oildale
AQS ID:	06-029-0232
County:	Kern
Street Address:	3311 Manor St, Oildale CA 93308
Geographic Coordinates:	35.4380 N, -119.0167 W
Distance to road (meters):	150 m (northwest)
Traffic Count (AADT; Year):	6,683; 2018*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for roads: Manor St between Day Ave and Felton St. Source: Kern Council of Governments.







## Bakersfield-Golden / M St

The Bakersfield-Golden / M St monitoring site is operated by SJVAPCD and is located in the Bakersfield, CA metropolitan area. It began operating in June 2014. The purpose of the site is to monitor representative concentrations of PM10 and PM2.5 in an urban area.

Site name:	Bakersfield-Golden / M St
AQS ID:	06-029-0010
County:	Kern
Street Address:	2820 M St, Bakersfield, CA 93301
Geographic Coordinates:	35.385574 N, -119.015009 W
Distance to road (meters):	13 m
Traffic Count (AADT; Year):	3,280; 2018*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: 30th St at Golden State Ave. Source: Kern Council of Governments.







#### **Bakersfield-Westwind**

The Bakersfield-Westwind near-road NO2 monitoring site is operated by SJVAPCD and is located adjacent to Highway 99 in the Bakersfield, CA metropolitan area. It began operating in January 2019. The purpose of the site is to monitor representative maximum 1–hour NO<sub>2</sub> concentrations near a high traffic roadway in an urban area. In addition to NO<sub>2</sub>, the site also monitors meteorology.

Site name:	Bakersfield-Westwind
AQS ID:	06-029-2019
County:	Kern
Street Address:	2001 Westwind Drive, Bakersfield,
	CA 93301
Geographic Coordinates:	35.37695278N, -119.04388889W
Distance to road (meters):	16 to 19 meters
Traffic Count (AADT; Year):	124,000; 2017*
	2,726; 2018**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Kern

<sup>\*</sup> Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2017)

<sup>\*\*</sup> Traffic count for monitoring station's street address: Westwind Drive; Source: Kern Council of Governments







### **Bakersfield-California**

The Bakersfield-California monitoring site is operated by CARB and is located in the Bakersfield, CA metropolitan area. It began operating in March 1994. The purpose of the site is to monitor representative concentrations of ozone, PM10, and PM2.5 in an urban area. The Bakersfield-California site also monitors NO2, PM2.5 Speciation, Toxics, and meteorology.

Site name:	Bakersfield-California
AQS ID:	06-029-0014
County:	Kern
Street Address:	5558 California Ave, Bakersfield, CA 93309
Geographic Coordinates:	35.3566 N, -119.0626 W
Distance to road (meters):	300 m (south)
Traffic Count (AADT; Year):	33,244; 2017*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr Source: Kern Council of Governments







#### Bakersfield-Muni

The Bakersfield-Muni site is located in the Bakersfield, CA metropolitan area and is operated by SJVAPCD. It became operational in June 2012. The site serves as a PAMS Type 2 site and its purpose is to measure maximum ozone precursor emissions. The site monitors ozone, CO, NO2, NMH, Speciated-VOC, and meteorology for the PAMS program.

Site name:	Bakersfield-Muni
AQS ID:	06-029-2012
County:	Kern
Street Address:	2000 South Union Ave., Bakersfield, CA 93307
Geographic Coordinates:	35.331612 N, -118.999961 W
Distance to road (meters):	280 m (west)
Traffic Count (AADT; Year):	20,545; 2018* 5,033; 2018**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr and Watts Dr Source: Kern Council of Governments

<sup>\*\*</sup>Traffic count for road adjacent to monitoring station: Watts Dr between S Union Ave and Short St Source: Kern Council of Governments







## **Bakersfield-Airport (Planz)**

The Bakersfield-Airport (Planz) monitoring site is located in the Bakersfield, CA metropolitan area and is operated by CARB. It began operating in September 2000. The purpose of the site is to monitor representative concentrations of PM2.5 from upwind and nearby urban areas.

Site name:	Bakersfield-Airport (Planz)
AQS ID:	06-029-0016
County:	Kern
Street Address:	401 E Planz Rd, Bakersfield, CA 93307
Geographic Coordinates:	35.3246 N, -118.9976 W
Distance to road (meters):	500 m (west)
Traffic Count (AADT; Year):	17,987; 2018* 1,030; 2018**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest cross street: S. Union Ave between E. Planz Rd and E White Lane. Source: Kern Council of Governments

<sup>\*\*</sup>Traffic count for monitoring station's street address E. Planz Rd. Source: Kern Council of Governments (2018)







## Edison

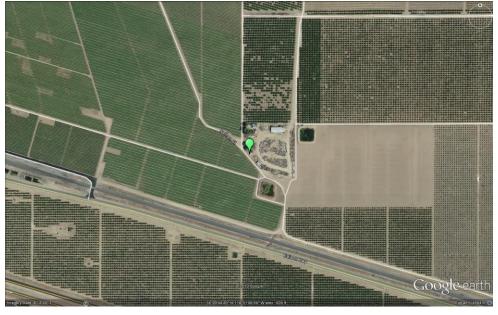
The Edison monitoring site is operated by CARB and is located 9 miles east of the Bakersfield, CA metropolitan area. It began operating in January 1980. The purpose of the site is to monitor representative concentrations of ozone from upwind and nearby urban areas. The site also monitors NO2 and meteorology.

Site name:	Edison
AQS ID:	06-029-0007
County:	Kern
Street Address:	Johnson Farm-Shed Rd, Edison CA 93320
Geographic Coordinates:	35.3456 N, -118.8518 W
Distance to road (meters):	450 m (south)
Traffic Count (AADT; Year):	2,800; 2018*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Edison Hwy and Comanche Dr. Source: Kern Council of Governments (2018).







## **Arvin-Di Giorgio**

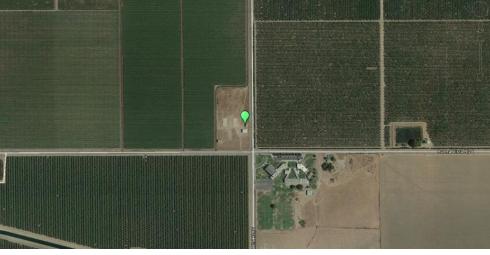
The Arvin-Di Giorgio site is located 18 miles southeast of the Bakersfield, CA metropolitan area. The site began operating in November 2009, and currently monitors ozone and meteorology. The purpose of this site is to measure emissions downwind of the Bakersfield urban area, and possibly serve as a PAMS Type 3 site which would monitor maximum ozone concentrations and transport from upwind urban areas. PAMS equipment at the Arvin-Di Giorgio site may be installed when space becomes available.

Site name:	Arvin-Di Giorgio
AQS ID:	06-029-5002
County:	Kern
Street Address:	19405 Buena Vista Blvd, Arvin, CA 93203
Geographic Coordinates:	35.2391 N, -118.7886 W
Distance to road (meters):	10 m (east)
Traffic Count (AADT; Year):	712; 2018*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for Buena Vista Blvd east of Tejon Hwy. Source: Kern Council of Governments.







# Maricopa

The Maricopa monitoring site is operated by SJVAPCD and is located 45 miles southwest of the Bakersfield, CA metropolitan area. It began operating in July 1987. The purpose of the site is to monitor representative concentrations of ozone in a rural area. The site also monitors meteorology.

Site name:	Maricopa
AQS ID:	06-029-0008
County:	Kern
Street Address:	755 Stanislaus St, Maricopa CA 93352
Geographic Coordinates:	35.051454 N, -119.40262 W
Distance to road (meters):	500 m (northwest)
Traffic Count (AADT; Year):	499; 2018*
Ground Cover:	Gravel, dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Union St at California St. Source: Kern Council of Governments (2018).







### Lebec

The Lebec monitoring station was initiated by the Tejon Ranch in 2004, and the District assumed responsibility for this site as of January 2009. This site monitors PM2.5 and meteorology and allows the District to better understand pollution impacts in the southern San Emigdio Mountains. The site is also used for residential wood burning declarations for the Greater Frazier Park Area.

Site name:	Lebec
AQS ID:	06-029-2009
County:	Kern
Street Address:	1277 Beartrap Rd, Lebec, CA 93243
Geographic Coordinates:	34.8415 N, -118.8610 W
Distance to road (meters):	300 m (west)
Traffic Count (AADT; Year):	1,911; 2017*
Ground Cover:	Gravel, vegetative
Representative Statistical Area (CBSA):	Bakersfield

\*Traffic count for nearest roads: Lebec Rd and Interstate 5. Source: Kern Council of Governments (2017).







#### **Tribal Sites**

Tribal sites are operated under the Tribal Authority Rule which is essential to tribal implementation of the CAA. Since tribal sites are not part of the District's jurisdiction, detailed site information for tribal monitors will not be provided in Appendix B.

### Picayune Rancheria

The Picayune Rancheria air monitoring site is located on tribal land in Coarsegold, Madera County, CA and is operated by the Chukchansi Indians. The site began operating in August 2011. The purpose of the site is to monitor representative concentrations of ozone, PM10, and PM2.5 on the reservation. The site also monitors meteorology.

Site name:	Picayune Rancheria
AQS ID:	06-039-0500
County:	Madera
Street Address:	46575 Road 417, Coarsegold, CA 93614
Geographic Coordinates:	37.2136 N, -119.6990 W
Distance to road (meters):	50 m (west)
Traffic Count (AADT; Year):	11,000; 2016*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Madera

<sup>\*</sup>Traffic count for CA Route 41 / Road 417. Source: Caltrans 2017 Ahead AADT







# **Table Mountain Air Monitoring Site**

The Table Mountain air monitoring station is located on Tribal land near Millerton Lake in Fresno County, CA and is operated by the Monache Tribe and Foothill Yokut Indians. The site began operating in September 2015. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Table Mountain Air Monitoring Site
AQS ID:	06-019-0500
County:	Fresno
Street Address:	Millerton Rd and Winchell Rd, Friant, CA 93626
Geographic Coordinates:	36.985119 N, -119.658339 W
Distance to road (meters):	Unknown
Traffic Count (AADT; Year):	50,000; 2017*
Ground Cover:	Dirt
Representative Statistical Area (CBSA):	Fresno-Madera

<sup>\*</sup>Traffic count for nearest roads: CA Route 41 and Friant Rd. Source: Caltrans 2017 Ahead AADT.





### Santa Rosa Rancheria

The Santa Rosa Rancheria air monitoring site is located on Tribal land in Lemoore, Kings County, CA and is operated by the Tachi-Yokut tribe. The site began operating in August 2006. The purpose of the site is to monitor representative concentrations of ozone, and PM10 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Santa Rosa Rancheria
AQS ID:	06-031-0500
County:	Kings
Street Address:	17225 Jersey Ave, Lemoore, CA 93245
Geographic Coordinates:	36.2332 N, -119.7662 W
Distance to road (meters):	40 m (south)
Traffic Count (AADT; Year):	775; 2014*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Hanford-Corcoran

<sup>\*</sup>Traffic count for nearest roads: Jackson Ave and 16th Ave Source: 2014 Kings County Regional Transportation Plan – Kings County Association of Governments





San Joaquin Valley Air Pollution Control District	June 3, 2018
Appendix B:	
Detailed Site Information	
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San Joaquin Valley Air Pollution Control District	June 3, 2018
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Appendix B: Detailed Air Monitoring Site Information	

## **List of Abbreviations**

Site Type		
PE	Population Exposure	
HC	Highest Concentration	
Max PEI	Max Precursor Emissions Impact	
RT	Regional Transport	
GB	General/Background	
SO	Source Oriented	
QA	Quality Assurance Collocation	
	Spatial Scale	
N	Neighborhood	
U	Urban	
R	Regional	
MC	Microscale	
MD	Middle Scale	
Ва	Basic Monitoring Objective	
NC	NAAQS Comparison	
RS	Research	
TP	Timely/Public	
•		
N/A	Not Applicable	
AADT	Annual Average Daily Traffic	

Site Name	Stockton-Hazelton
AQS ID (XX-XXX-XXXX)	06-077-1002
Representative statistical	
area Name (i.e. MSA, CBSA,	Stockton-Lodi
other)	
County	San Joaquin
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	1/1/1976
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FEM, CO, NO <sub>2</sub> , Toxics
Meteorological Parameters	Outdoor temperature, Wind direction, Wind speed, Relative humidity
Address	1601 E. Hazelton St., Stockton CA 95205
GPS Coordinates (decimal degrees)	37.9507 N, -121.2689 W
Distance to roadways	62 m (north)
Traffic Count/Year	4000/2014 (Traffic count estimated by City of Stockton Public Works Traffic Engineering Division)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

	Stockton-Hazelton (1)				
Pollutant	Ozone	PM10 STP	PM2.5	PM2.5	
Parameter code	44201	81102	88101	88101	
Spatial scale	N	N	N	N	
Site type	HC, PE	HC	HC, PE	GB, QA	
Monitoring objective	NC, RS, TP	NC, RS	NC, RS, TP	TP	
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation	None	None	None	None	
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	
POC	1	2	3	4	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	QA Collocation	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	Υ	Υ	
Instrument manufacturer and model	Teledyne API 400	Sierra Anderson 1200	Met One 1020	Met One 1020	
Analysis method	UV	Gravimetric	Beta Attenuation	Beta Attenuation	
Method code	087	063	170	170	
Monitoring start date (MM/DD/YYYY)	01/01/1976	01/01/1985	05/11/2010	08/23/2010	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	
Probe/Inlet height above ground (meters)	5.7 m	6.5 m	5.7 m	5.7 m	
Distance from supporting structure (meters)	2.0 m	1.7 m	2.0 m	2.0 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	

Pollutant	Ozone	PM10 STP	PM2.5	PM2.5
Distance from trees (meters)	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None
Distance between collocated monitors (meters)	N/A	N/A	N/A	1.2
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A
Residence time (seconds)	8.4	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	Monthly	Monthly
Frequency of one-point QC check (gaseous)	5x/week	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	8/9/18	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	02/02/18, 8/9/18	1/31/18, 8/9/18	1/31/18, 8/9/18
Changes planned within the next 18 months (Y/N)	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for mid-summer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for mid- summer 2020. New site yet to be determined.

Stockton-Hazelton (2)					
Pollutant	NO <sub>2</sub>	СО	Toxics SN20021014	Toxics SN20021016	Meteorology
Parameter code	42602	42101	Many	Many	Many
Spatial scale	N	N	N	N	R
Site type	PE	PE	PE	PE, QA	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS, TP	RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	Many	Many	Many
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	CA Air Toxics	CA Air Toxics	None
FRM/FEM/ARM/Other	FRM	FRM	Other	Other	Other
POC	2	3	Many	Many	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	Primary	QA Collocated	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	API 200E	API 300 EU	Xontech 924	Xontech 924	RM Young
Analysis method	CL	IR	Many	Many	Many
Method code	099	593	Many	Many	066
Monitoring start date (MM/DD/YYYY)	01/01/77	04/04/13	Varies by compound	Varies by compound	01/01/95
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31
Probe/Inlet height above ground (meters)	5.7 m	5.4 m	6.8 m	6.8 m	10m
Distance from supporting structure (meters)	2.0 m	N/A	2.0 m	2.0 m	None
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A

Pollutant	NO <sub>2</sub>	со	Toxics SN20021014	Toxics SN20021016	Meteorology
Distance between collocated monitors (meters)	None	None	2.8	2.8	None
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	Teflon	Teflon	Teflon
Residence time (seconds)	8.8	6.6	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	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	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	5x/week	5x/week	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	8/9/18	9/20/18	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.	Yes. Site closure/demolition planned for midsummer 2020. New site yet to be determined.

Site Name	Tracy - Airport
AQS ID (XX-XXX-XXXX)	06-077-3005
Representative statistical	
area Name (i.e. MSA, CBSA,	Stockton-Lodi
other)	
County	San Joaquin
Collecting (Operating)	SJVAPCD
Agency	SOVAL OD
Analytical Lab (i.e. weigh lab,	N/A
toxics lab, other)	
Reporting Agency	SJVAPCD
Site Start Date	01/01/2006
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 Non-FEM, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	5749 S. Tracy Blvd., Tracy, CA 95376
GPS Coordinates (decimal degrees)	37.6826 N, -121.4423 W
Distance to roadways (meters)	700m (east)
Traffic Count/Year	4,063/2014 (Traffic count for nearest roads: Linne Rd and Corral Hollow Rd) Source: San Joaquin Council of Governments, 2016 Monitoring and Conformance Report
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt and Gravel

Tracy – Airport (1)					
Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
Parameter code	44201	88502	81102	42602	Many
Spatial scale	R	R	R	R	R
Site type	RT	RT	RT	RT	GB
Basic monitoring objective(s)	NC, RS, TP	TP	NC, RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SPM	SLAMS	SLAMS	Other
FRM/FEM/ARM/Other	FEM	Non-FEM	FEM	FEM	Other
POC	1	3	3	1	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Primary	Other	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	Thermo TEOM 1400	Teledyne 200E	ITP- 125-50HV, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C
Analysis method	UV	Beta- Attenuation	Tapered Element	CL	Many
Method code	087	731	079	099	Many
Monitoring start date (MM/DD/YYYY)	01/01/2006	09/27/2006	09/27/2006	01/01/2006	01/01/2006
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	5.86 m	5.6 m	5.55 m	5.86 m	10 m
Distance from supporting structure (meters)	2.06 m	1.8 m	1.75 m	2.06 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	11.5	N/A	N/A	12.31	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-Weekly	Monthly	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/16/18	N/A	N/A	11/27/18	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/02/18, 11/27/18	05/02/18, 11/27/18	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Manteca
AQS ID (XX-XXX-XXXX)	06-077-2010
Representative statistical area Name (i.e. MSA, CBSA, other)	Stockton-Lodi
County	San Joaquin
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	11/16/2010
Pollutant Parameters	PM2.5 FEM; PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	530 Fishback Rd., Manteca, CA 95337
GPS Coordinates (decimal degrees)	37.7933 N, -121.2477 W
Distance to roadways (meters)	12 m (west)
Traffic Count/Year	10,224 / 2015 (Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120. Source: San Joaquin Council of Governments, 2016 Monitoring and Conformance Report)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

		Manteca (1)		
Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Parameter code	88101	85101	81102	Many
Spatial scale	N	N	N	N
Site type	HC	HC	HC	PE
Basic monitoring objective(s)	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other
POC	3	3	3	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other	Primary	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Yes	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne 602	Teledyne 602	Teledyne 602	ITP – Hy-Cal 512AA3B, OT – Met One 060A- 2, BP – Met One 092, WD – Met One 020C, WS – Met One 010C
Analysis method	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
Method code	204	205	205	Many
Monitoring start date (MM/DD/YYYY)	01/01/2017	01/01/2017	01/01/2017	11/16/2010
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 – 12/31

Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Probe height (meters)	4 m	4.1 m	4.1 m	10 m
Distance from supporting structure (meters)	1.2 m	2 m	2 m	0 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from trees (meters)	55 m	55 m	55 m	55.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	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
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A

Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Frequency of flow rate verification for automated PM analyzers (routine checks)	Biweekly	Biweekly	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	5/2/18, 11/13/18	5/2/18, 11/13/18	5/2/18, 11/13/18	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Modesto –14 <sup>th</sup> St
AQS ID (XX-XXX-XXXX)	06-099-0005
Representative statistical area Name (i.e. MSA, CBSA, other)	Modesto
County	Stanislaus
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	01/01/81
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, CO, PM2.5 Speciation
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity
Address	814 14th Street, Modesto CA 95354
GPS Coordinates (decimal degrees)	37.6421 N, -120.9942 W
Distance to road	50 m (southwest)
Traffic Count/Year	122,000 / 2014 (Traffic count for nearest roads: H Street / Rte 99, Source: Caltrans 2017 AADDT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Modesto –14 <sup>th</sup> St (1)					
Pollutant	Ozone	PM10 STP	PM2.5		
Parameter code	44201	81102	88101		
Spatial scale	N	N	N		
Site type	HC, PE	PE	PE		
Monitoring objective	NC, RS, TP	NC, RS, TP	NC, RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS		
Network affiliation	None	None	None		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
POC	1	7	3		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary		
Is it suitable for comparison against the annual $PM_{2.5}$ ? $(Y/N)$	N/A	N/A	Υ		
Instrument manufacturer and model	Teledyne API 400	Met One 4 Models Beta A	Met One 1020		
Analysis method	UV	Beta Attenuation	Beta Attenuation		
Method code	087	122	170		
Monitoring start date (MM/DD/YYYY)	1/1/1981	12/1/2013	5/1/2010		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31		
Probe/Inlet height above ground (meters)	7.9 m	4.4 m	5.1 m		
Distance from supporting structure (meters)	4.8 m	1.1 m	1.8 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A		
Distance from trees (meters)	N/A	N/A	N/A		
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A		
Distance between collocated monitors (meters)	N/A	N/A	2.0		
Unrestricted airflow (degrees)	360	360	360		
Probe material (Teflon, etc.)	Teflon	N/A	N/A		
Residence time (seconds)	9.3	N/A	N/A		

Pollutant	Ozone	PM10 STP	PM2.5
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Monthly	Bi-Weekly
Frequency of one-point QC check (gaseous)	5x/week	N/A	N/A
Last Annual Performance Evaluation (gaseous)	11/8/18	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	4/30/18, 11/8/18	4/30/18, 11/8/18
Changes planned within the next 18 months (Y/N)	N	N	N

Modesto-14 <sup>th</sup> St (2)					
Pollutant	PM2.5	PM2.5 Speciation	СО	Meteorology	
Parameter code	88101	Many	42101	Many	
Spatial scale	N	N	N	R	
Site type	PE, QA	PE	PE	GB	
Monitoring objective(s)	NC, RS	RS	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation	None	CSN Supplemental	None	None	
FRM/FEM/ARM/Other	FRM	Other	FRM	Other	
POC	1	5	3	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	QA Collocation	Primary	N/A	Other	
Is it suitable for comparison against the annual $PM_{2.5}$ ? $(Y/N)$	Υ	N/A	N/A	N/A	
Instrument manufacturer and model	Thermo 2000i	Met-One SASS	API 300 EU	N/A	
Analysis method	Gravimetric	Many	IR	N/A	
Method code	143	810	593	066	

Pollutant	PM2.5	PM2.5 Speciation	СО	Meteorology
Monitoring start date (MM/DD/YYYY)	01/03/95	01/14/02	01/01/13	01/01/95
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:12	1:6	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31
Probe/Inlet height above ground (meters)	6.1 m	5.6 m	7.7 m	N/A
Distance from supporting structure (meters)	2.8 m	N/A	1.0 m (per most recent ARB audit)	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	4.5 m	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	1 m (Met tower)	N/A	N/A
Distance from trees (meters)	N/A	40 m	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	Approx. 40 m	N/A	N/A
Distance between collocated monitors (meters)	2.0	2.4 m (URG 3000n) 4.5 m (Partisol) 3.0 m (BAM-10)	N/A	N/A
Unrestricted airflow (degrees)	360	Est. 350	360	360
Probe material (Teflon, etc.)	N/A	N/A	Teflon	N/A
Residence time (seconds)	N/A	N/A	9.5	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	5x/week	N/A

Pollutant	PM2.5	PM2.5 Speciation	СО	Meteorology
Last Annual Performance Evaluation (gaseous)	N/A	N/A	9/20/18	N/A
Last two semi-annual flow rate audits for PM monitors	4/30/18, 11/8/18	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Turlock				
AQS ID (XX-XXX-XXXX)	06-099-0006				
Representative statistical					
area Name (i.e. MSA, CBSA,	Modesto				
other)					
County	Stanislaus				
Collecting (Operating) Agency	SJVAPCD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB				
Reporting Agency	SJVAPD: Ozone, PM2.5 FEM, NO2, Meteorology CARB: PM10 FRM				
Site Start Date	4/1/1992				
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FEM, NO2				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure				
	·				
Address	900 S. Minaret Ave., Turlock, CA 95380				
GPS Coordinates (decimal degrees)	37.4880 N, -120.8360 W				
Distance to roadways (meters)	40m (northeast)				
Traffic Count/Year	742 / 2015 (Traffic count for Minaret Ave. between East Ave. and Berkley Ave. Five-day average two-way traffic. Source: City of Turlock Engineering Division 2015)				
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel				

	Turlock (1)					
Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology	
Parameter code	44201	88101	81102	42602	Many	
Spatial scale	N	N	N	N	R	
Site type	HC, PE	HC, PE	PE	PE	GB	
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None	
FRM/FEM/ARM/Other	FEM	FEM	FRM	FEM	Other	
POC	1	3	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Υ	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	ECOTECH Hi-Vol 3000	Teledyne 200E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C	
Analysis method	UV	Beta Attenuation	Gravimetric	Chem.	Many	
Method code	087	170	162	099	Many	
Monitoring start date (MM/DD/YYYY)	04/01/2000	09/14/2006	09/14/2006	04/01/2000	WS, WD - 4/1/2000; OT, BP 09/03/08	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:6	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	5.6 m	5.6 m	5.5 m	5.6 m	8.3 m	
Distance from supporting structure (meters)	2 m	2 m	2 m	2 m	N/A	

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	37.5 m	37.5 m	37.5 m	37.5 m	37.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	11.88	N/A	N/A	13.24	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-weekly	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A	N/A

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	No	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/6/18	N/A	N/A	11/6/18	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/15/18, 11/6/18	05/15/18, 11/6/18	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Merced - M St
AQS ID (XX-XXX-XXXX)	06-047-2510
Representative statistical	
area Name (i.e. MSA, CBSA,	Merced
other)	
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB: PM10 FRM and PM2.5 FRM
Site Start Date	04/01/1999
Pollutant Parameters	PM10 FRM, PM2.5 FRM
Meteorological Parameters	None
Address	2334 M Street, Merced, CA 95340
GPS Coordinates (decimal degrees)	37.3086 N, -120.4800 W
Distance to roadways (meters)	55 m (northwest)
Traffic Count/Year	51,000/2014 (Traffic count for nearest roads: R Street/Rte 99, Source: Caltrans 2017 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, gravel

Merced – M St (1)					
Pollutant	PM2.5	PM10			
Parameter code	88101	81102			
Spatial scale	N	N			
Site type	HC, PE	HC, PE			
Basic monitoring objective(s)	NC, RS	NC, RS			
Monitor type	SLAMS	SLAMS			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None			
FRM/FEM/ARM/Other	FRM	FRM			
POC	1	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	N/A			
Instrument manufacturer and model	Thermo-Partisol 2025i	ECOTECH Hi-Vol 3000			
Analysis method	Gravimetric	Gravimetric			
Method code	145	162			
Monitoring start date (MM/DD/YYYY)	04/01/1999	4/01/1999			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:6*			
Sampling season (MM/DD - MM/DD)	1/1 -12/31	1/1 – 12/31			
Probe height (meters)	8.4 m	8.4 m			
Distance from supporting structure (meters)	2.05 m	1.7 m			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from trees (meters)	50 m east	50 m east			
Distance to furnace or incinerator flue (meters)	42 m	38 m			

<sup>\*</sup> If an official determination has been made on the 2018 exceptional events that requires additional monitoring for increased sampling frequency, the District will note it at that time.

Pollutant	PM2.5	PM10
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Bi-weekly	Monthly
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	04/30/18, 11/7/18	04/30/18, 11/7/18
Changes planned within the next 18 months (Y/N)	Possible	Possible

Site Name	Merced - Coffee
AQS ID (XX-XXX-XXXX)	06-047-0003
Representative statistical	
area Name (i.e. MSA, CBSA,	Merced
other)	
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	10/1/1991
Pollutant Parameters	Ozone, PM2.5 FEM, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	385 S. Coffee St., Merced, CA 95340
GPS Coordinates (decimal degrees)	37.2816 N, -120.4340 W
Distance to roadways (meters)	15 m (east)
Traffic Count/Year	42,500/2014 (Traffic count for nearest roads: Childs Avenue/Rte 99, Source: Caltrans 2016 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Vegetative, dirt and gravel

	Merce	ed - Coffee (1	)	
Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
Parameter code	44201	88101	42602	Many
Spatial scale	N	N	N	R
Site type	HC, PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other
POC	1	3	1	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	N/A	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Υ	N/A	N/A
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	Teledyne T200	ITP- Hampshire Controls 125-50HVB, OT- Met One 060A-2, WD- Met One 020C-1, WS-Met One 010C
Analysis method	UV	Beta Attenuation	CL	Many
Method code	087	170	099	Many
Monitoring start date (MM/DD/YYYY)	10/01/1991	10/19/2009	10/01/1991	10/01/1991
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly
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)	5.4 m	5.4 m	5.4 m	7.6 m
Distance from supporting structure (meters)	1.9 m	1.9 m	1.9 m	4.1 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from trees (meters)	13.5 m	14.0 m	13.5 m	13.5 m

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.74	N/A	11.61	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-weekly	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/7/18	N/A	11/7/18	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/17/18, 11/07/18	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Madera - City
AQS ID (XX-XXX-XXXX)	06-039-2010
Representative statistical	
area Name (i.e. MSA, CBSA,	Madera
other)	
County	Madera
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM2.5 FRM
Reporting Agency	SJVAPCD
Site Start Date	6/1/2010
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM, PM2.5 FRM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation.
Address	28261 Avenue 14, Madera, CA 93638
GPS Coordinates (decimal degrees)	36.9532 N, -120.0342 W
Distance to roadways (meters)	70 m (south)
Traffic Count/Year	386/2017 (Traffic count for nearest roads: Avenue 14 west of Road 29, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, dirt, and vegetative

Pollutant	Ozone	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Parameter code	44201	88101	88101	85101	81102	Many
Spatial scale	N	N	N	N	N	N
Site type	HC, GB	HC, QA	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS,	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None.	None	None	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	FEM	Other
POC	1	1	3	3	3	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	QA Collocated	Primary	Other	Other	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Υ	Υ	N/A	N/A	N/A
Instrument manufacturer and model	TAPI 400E IZS	Thermo Partisol 2025i	Teledyne 602	Teledyne 602	Teledyne 602	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS- Met One 010C
Analysis method	UV	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
Method code	087	145	205	204	204	Many
Monitoring start date (MM/DD/YYYY)	06/01/2010	02/17/2014	12/01/2017	12/01/2017	12/01/2017	06/01/2010

Pollutant	Ozone	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Required sampling frequency (e.g. 1:3 excluding						
exceptional events/1:1 including exceptional	Hourly	1:12	Hourly	Hourly	Hourly	Hourly
events)			-			-
Sampling season (MM/DD - MM/DD)	01/01 —	01/01 —	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 —
Sampling season (MIM/DD - MIM/DD)	12/31	12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	12/31
Probe height (meters)	5.1 m	5.1 m	4.4 m	5.0 m	6.35 m	10 m
Distance from supporting structure (meters)	2 m	2.1 m	1. 8 m	2.4 m	2.4 m	7 m
Distance from obstructions not on roof. Include						
horizontal distance + vertical height above probe	N/A	N/A	N/A	N/A	N/A	N/A
for obstructions nearby. (meters)						
Distance from trees (meters)	14.5 m	16.5 m	15 m	15 m	15 m	14.5 m
Distance to furnace or incinerator flue (meters)	53m	53m	53m	53m	53m	N/A
Distance between monitors fulfilling a QA	N/A	N/A	N/A	N/A	N/A	N/A
collocation requirement (meters).	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A
Unrestricted airflow (degrees around probe/inlet	360	360	360	360	360	360
or percentage of monitoring path)	360	360	300	300	360	300
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	Teflon/Pyrex					
SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex,	with	N/A	N/A	N/A	N/A	N/A
stainless steel, Teflon)	Borosilicate					
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	7.45	N1/A	N1/A	N1/A	N1/A	N1/A
SO <sub>2</sub> , O <sub>3</sub> ; NPAMS: VOCs, Carbonyls (seconds)	7.45	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous	Daile	NI/A	NI/A	NI/A	NI/A	NI/A
instruments	Daily	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM	N1/A	N.4 (1.1	N1/A	N1/A	NI/A	NI/A
samplers, including Pb samplers (routine checks)	N/A	Monthly	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated	NI/A	NI/A	D: Mandala	D: Ma alde	D: Ma alaka	NI/A
PM analyzers (routine checks)	N/A	N/A	Bi-Weekly	Bi-Weekly	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200						
liters/minute), is any PM instrument within 1 m of	NI/A	NIa	Nia	NI-	Nia	NI/A
the lovol? If yes, please list distance (meters)	N/A	No	No	No	No	N/A
and instrument(s).						
For high volume PM instrument (flow rate > 200						
liters/minute), is any PM instrument within 2m of	NI/A	NI/A	NI/A	NI/A	NI/A	NI/A
the hivol? If yes, please list distance (meters)	N/A	N/A	N/A	N/A	N/A	N/A
and instrument(s).						

Pollutant	Ozone	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/5/18	N/A	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	5/15/18, 11/5/18	5/15/18, 11/5/18	5/15/18, 11/5/18	5/15/18, 11/5/18	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Site Name	Madera – Pump Yard
AQS ID (XX-XXX-XXXX)	06-039-0004
Representative statistical	
area Name (i.e. MSA, CBSA,	Madera
other)	
County	Madera
Collecting (Operating)	SJVAPCD
Agency	
Analytical Lab (i.e. weigh lab, toxics lab, other)	Varies based on which laboratory is contracted with the SJVAPCD.
Reporting Agency	SJVAPCD
Site Start Date	07/01/1997
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation
Address	Avenue 8 and Road 29 ½, Madera, CA 93637
GPS Coordinates (decimal degrees)	36.867125 N, -120.010158 W
Distance to roadways (meters)	20 m (west)
Traffic Count/Year	2,980/2017 (Traffic count for nearest roads: Avenue 7 west of Rte 99, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, paved

		Madera – Pum	p Yard (1)		
Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Parameter code	44201	42602	Many	43102	Many
Spatial scale	N	N	N	N	R
Site type	HC, GB	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	Other	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FEM	FEM	Other	Other	Other
POC	1	1	1	1	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne 400E	Teledyne T200	Xontech 910A	Synspec Alpha 115	ITP- Hamp.Control 125-50, OT- Met One 060A-2, BP- Met One 092, RH- Vaisala HMP110A, SRD- Epply Mod. 8-48, WD- Met One 020C, WS-Met One 010C
Analysis method	UV	CL	GC	GC	Many
Method code	087	099	164	011	Many
Monitoring start date (MM/DD/YYYY)	07/01/1997	07/01/1997	07/01/1997	07/01/1997	07/01/1997
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 8/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	5.8 m	5.8 m	5.8 m	5.8 m	10 m
Distance from supporting structure (meters)	2 m	2 m	2 m	2 m	8.2 m

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above
Distance from trees (meters)	40.5 m	40.5 m	40.5 m	40.5 m	40.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Stainless steel	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.48	10.92	9.71	11.41	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/14/18	11/14/18	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Tranquillity
AQS ID (XX-XXX-XXXX)	06-019-2009
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	09/01/2009
Pollutant Parameters	Ozone, PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	32650 W. Adams, Tranquillity, CA 93668
GPS Coordinates (decimal degrees)	36.6008 N, -120.3822 W
Distance to roadways (meters)	200m (south)
Traffic Count/Year	2,292/2018 (Raw traffic count for nearest roads: Northbound Derrick Avenue between W. Nebraska Avenue and West Mountain View Avenue, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetative

Tranquillity (1)							
Pollutant	Ozone	PM2.5	Meteorology				
Parameter code	44201	88101	Many				
Spatial scale	U	U	U				
Site type	PE	PE	PE				
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	TP				
Monitor type	SLAMS	SLAMS	Other				
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None				
FRM/FEM/ARM/Other	FEM	FEM	Other				
POC	1	3	1				
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other				
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Y	N/A				
Instrument manufacturer and model	Teledyne 400E (IZS)	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C				
Analysis method	UV	Beta attenuation	Many				
Method code	087	170	Many				
Monitoring start date (MM/DD/YYYY)	10/30/2009	10/30/2009	10/30/2009				
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly				
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31				
Probe height (meters)	4.6 m	4.9 m	10.6m				
Distance from supporting structure (meters)	1.8 m	2.1 m	0 m				
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A				
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	82.8 m	76.8 m	76.7m				
Distance from trees (meters)	63.7 m	66.1 m	63.7m				
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A				

Pollutant	Ozone	PM2.5	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	359	359	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	3.6	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/16/17	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/17/18, 11/7/18	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Fresno – Sierra Sky Park
AQS ID (XX-XXX-XXXX)	06-019-0242
Representative statistical	
area Name (i.e. MSA, CBSA,	Fresno
other)	
County	Fresno
Collecting (Operating)	SJVAPCD
Agency	
Analytical Lab (i.e. weigh lab,	N/A
toxics lab, other)	O IV /A DOD
Reporting Agency	SJVAPCD
Site Start Date	7/1/1986
Pollutant Parameters	Ozone, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	4508 Chenault Ave., Fresno, CA 93722
GPS Coordinates (decimal degrees)	36.8405 N, -119.8740 W
Distance to roadways (meters)	12m (west)
Traffic Count/Year	15,626 / 2018 (Raw traffic count in a 24-hour period for nearest roads: Spruce Avenue east of Milburn Avenue. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, dirt

Fresno – Sierra Sky Park (1)							
Pollutant	Ozone	NO <sub>2</sub>	Meteorology				
Parameter code	44201	42602	Many				
Spatial scale	N	N	N				
Site type	HC, PE, RT	PE	GB				
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS, TP				
Monitor type	SLAMS	SLAMS	Other				
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	N/A	N/A	N/A				
FRM/FEM/ARM/Other	FEM	FEM	Other				
POC	1	1	1				
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	Other				
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A				
Instrument manufacturer and model	Teledyne API T265	Teledyne T200	ITP- BA-512-A-A-3-B, OT- Met One 060A-2, WD- Met One 020C, WS- Met One 010C				
Analysis method	Chem.	CL	Many				
Method code	199	574	Many				
Monitoring start date (MM/DD/YYYY)	07/01/1986	07/01/1986	07/01/1986				
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly				
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31				
Probe height (meters)	5.5 m	5.5 m	5.6 m				
Distance from supporting structure (meters)	2.3 m	2.3 m	2.3 m				
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A				
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A				
Distance from trees (meters)	2.2 m	2.2 m	1.2 m				

Pollutant	Ozone	NO <sub>2</sub>	Meteorology
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
Distance between monitors fulfilling a QA	N/A	N/A	N/A
collocation requirement (meters).	14/71	14/71	14/1
Unrestricted airflow (degrees around probe/inlet	280	280	280
or percentage of monitoring path)			
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	Teflon/Pyrex with	Teflon/Pyrex with	N/A
SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Borosilicate	Borosilicate	N/A
Residence time for reactive gases			
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	15.54	15.45	N/A
Carbonyls (seconds)	10.04	10.40	IV/A
Frequency of one-point QC check for gaseous	5	5 "	
instruments	Daily	Daily	N/A
Frequency of flow rate verification for manual			
PM samplers, including Pb samplers (routine	N/A	N/A	N/A
checks)			
Frequency of flow rate verification for	N/A	N/A	N/A
automated PM analyzers (routine checks)	1477	14/7	14/1
For low volume PM instruments (flow rate <			
200 liters/minute), is any PM instrument within	N/A	N/A	N/A
1 m of the lovol? If yes, please list distance (meters) and instrument(s).			
For high volume PM instrument (flow rate > 200			
liters/minute), is any PM instrument within 2m			
of the hivol? If yes, please list distance (meters)	N/A	N/A	N/A
and instrument(s).			
Date of Annual Performance Evaluation			
conducted in the past calendar year for	03/15/18	03/15/18	N/A
gaseous parameters (MM/DD/YYYY)			
Date of two semi-annual flow rate audits			
conducted in the past calendar year for PM	N/A	N/A	N/A
monitors (MM/DD/YYYY, MM/DD/YYYY)			
Changes planned within the next 18 months	N	N	N
(Y/N)			

Site name	Clovis - Villa						
AQS ID (XX-XXX-XXXX)	06-019-5001						
Representative statistical area	Fresno						
Name (i.e. MSA, CBSA, other)	FIESTIO						
County	Fresno						
Collecting (Operating) Agency	SJVAPCD						
Analytical Lab (i.e. weigh lab,	Varies based on which laboratory is contracted with	CARB: PM10 FRM, PI	M2.5 FRM				
toxics lab, other)	the SJVAPCD: Speciated VOC	CAIND. I WITO I INW, I I					
Departing Agency	SJVAPCD: PM2.5 FRM, PM2.5 FEM, PM10 FRM,	CARB: PM10 FRM,	SJVAPCD contracts out so				
Reporting Agency	PM10 FEM, Ozone, CO, NO <sub>2</sub> , NMH, Speciated VOC, Meteorology	PM2.5 FRM	Reporting lab varies from year to year: Speciated VOC				
Site Start Date	09/01/1990						
Pollutant Parameters	Ozone, PM10 FRM, PM10 FEM, PM2.5 FEM, PM2.5 F	FRM, CO, NO <sub>2</sub> , NMH, S	peciated VOC				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relat	tive humidity, barometric	pressure, solar radiation				
Address	908 N. Villa Ave., Clovis CA 93612						
GPS Coordinates (decimal degrees)	36.8194 N, -119.7160 W						
Distance to roadways (meters)	260 m (east)						
Traffic Count/Year	13,890/2008 (Raw traffic count in a 24-hour period: Eastbound Bullard Avenue/Villa Avenue intersection Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013 (latest available))						
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved						

Clovis – Villa (1)								
Pollutant	Ozone	PM10	PM2.5	PM10 LC	PM10 STP	PM2.5		
Parameter Code	44201	81102	88101	85101	81102	88101		
Spatial scale	N	N	N	N	N	N		
Site type	Max PEI, HC	PE	HC	HC	HC	HC		
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS, TP	RS, TP	NC, RS, TP	NC, RS		
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	None	None	None	None	None		
FRM/FEM/ARM/Other	FRM	FRM	FEM	FEM	FEM	FRM		
POC	1	1	3	3	3	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	Other	Other	QA Collocated		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	Y	N/A	N/A	Y		
Instrument manufacturer and model	Teledyne API T265	Ecotech HiVol 3000	Teledyne 602	Teledyne 602	Teledyne 602	Thermo Partisol 2025i		
Analysis method	Chem.	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation	Gravimetric		
Method code	199	162	205	204	204	145		
Monitoring start date (MM/DD/YYYY)	05/01/2017	04/01/2015	01/01/2017	01/01/2017	01/01/2017	09/06/2012		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	Hourly	Hourly	Hourly	1:3		
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31		
Probe height (meters)	5.66 m	5.5 m	5.99 m	6.35 m	6.35 m	6.0 m		
Distance from supporting structure (meters)	1.85 m	1.6 m	1.85 m	2.21 m	2.21 m	2m		

Pollutant	Ozone	PM10	PM2.5	PM10 LC	PM10 STP	PM2.5
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	15 m	15 m	17.5 m	17.5 m	17.5 m	37.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	2.1 m	2.1 m	2.1 m	2.5
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	355	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	5.08	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No	No	No
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	N/A	N/A	N/A	Monthly

Pollutant	Ozone	PM10	PM2.5	PM10 LC	PM10 STP	PM2.5
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	Bi-weekly	Bi-weekly	Bi-weekly	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	03/13/18	N/A	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	03/13/18, 08/28/18	03/13/18, 08/28/18	03/13/18, 08/28/18	03/13/18, 08/28/18	03/13/18, 08/28/18
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Clovis – Villa (2)							
Pollutant	CO	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology		
Parameter code	42101	42602	Many	43102	Many		
Spatial scale	N	N	N	N	R		
Site type	Max PEI, PE	HC	PE	HC	Other		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP		
Monitor type	SLAMS	SLAMS	Other	Other	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS		
FRM/FEM/ARM/Other	FEM	FEM	Other	Other	Other		
POC	1	1	1	1	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A		

Pollutant	CO	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Instrument manufacturer and model	Themo 48i	Teledyne T200	Xontech 910A / Xontech 925	Synpec Alpha 115	ITP- HY-CAL BA 512- A-A-3-B, OT- Met- One 060A-2, BP- Met- One 092, RH- VAISALA HMP45D, SRD- EPPLY Mod.8- 48, WD- Met-One 020C, WS- Met One 010C, BP- Met One 092
Analysis method	IR	Chem.	GC / UV Absorption	Flame Ionization	Many
Method code	554	099	177 / 202	011	Many
Monitoring start date (MM/DD/YYYY)	01/01/1990	01/01/2016	01/01/1990	01/01/1990	01/01/1990
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	5.66 m	5.66 m	5.66 m	5.66 m	10 m
Distance from supporting structure (meters)	1.85 m	1.85 m	1.85 m	1.85 m	7.5 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	29.5 m
Distance from trees (meters)	15 m	15 m	15 m	15 m	25.5 m
Distance to furnace or incinerator flue (meters)	16.0 m	16.0 m	13.5 m	16.0 m	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360

Pollutant	CO	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	5.19	5.19	5.0	3.38	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	Daily	N/A	Daily	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	03/13/18	03/13/18	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Fresno – Garland
AQS ID (XX-XXX-XXXX)	06-019-0011
Representative statistical	
area Name (i.e. MSA, CBSA,	Fresno
other)	
County	Fresno
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	12/31/2011
Pollutant Parameters	Ozone, PM10 STP FEM, PM2.5 FEM, PM2.5 FRM, PM2.5 Speciation (STN),
	CO, NO <sub>2</sub> , NOy, SO <sub>2</sub> , Toxics
	<b>PM</b> <sub>10-2.5</sub> : (2) PM10 FEMs + (2) PM2.5 FEMs = (2) PM <sub>10-2.5</sub> FEMs. There are 2 pairs of analyzers - 1 pair is
	collocated. The (4) analyzers render (6) datasets. Each dataset has (3) method codes.
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure, relative humidity
Address	3727 N. First St., Ste.104, Fresno CA 93726
GPS Coordinates (decimal degrees)	36.7853 N, -119.7732 W
Distance to roadways (meters)	30 m (south)
Traffic Count/Year	7,520/2011 (Raw traffic count in a 24-hour period: First Street near Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013. (latest available))
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Fresno-Garland (1)								
Pollutant	Ozone	СО	NO <sub>2</sub>	SO <sub>2</sub>	NOy	Toxics		
Parameter code	44201	42101	42602	42401	42600	Many		
Spatial scale	U	U	U	U	U	N		
Site type	PE	PE	Max PEI	PE	PE	PE		
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS	NC, RS	NC, RS	RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS		
Network affiliation	NCore	NCore	NCore	NCore	NCore	NCore		
FRM/FEM/ARM/Other	FEM	FRM	FRM	FEM	Other	Other		
POC	1	3	1	1	3	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Primary	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	API 300 EU	API 200E	Thermo 43	Instrumental	Xontech 924		
Analysis method	UV	UV	UV	UV	Chem. Teledyne API 200EU/501	Many		
Method code	087	093	099	009	699	Many		
Monitoring start date (MM/DD/YYYY)	12/23/2011	01/18/2012	02/1/2012	01/18/2012	01/18/2012	12/23/2011		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31		
Probe/Inlet height above ground (meters)	7.0 m	7.0 m	7.0 m	7.0 m	6.2 m	5.8 m		
Distance from supporting structure (meters)	N/A	N/A	N/A	N/A	N/A	N/A		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A		

Pollutant	Ozone	СО	NO2	SO2	NOy	Toxics
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	Teflon	Teflon	Teflon	Teflon
Residence time (seconds)	7.5	7.1	6.7	7.2	< 20 seconds	
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation (gaseous)	3/14/18	9/19/18	3/14/18	9/19/18	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Fresno-Garland (2)					
Pollutant	PM2.5	PM2.5	PM10 STP / PM10 LC	PM2.5	PM <sub>10-2.5</sub>
Parameter code	88101	88101	81102 / 85101	88101	86101
Spatial scale	N	N	N	N	N
Site type	HC	HC, PE, QA	PE	HC, QA	PE, QA
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS	NC, RS	NC, RS
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation	NCore	NCore	NCore	NCore	NCore
FRM/FEM/ARM/Other	FRM	FRM	FEM	FEM	FEM
POC	1	2	3/4	3/4	3/4
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	QA Collocated	Primary	QA Collocated	QA Collocated, serving as Primary
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	Υ	N/A	Υ	N/A
Instrument manufacturer and model	R&P 2025	R&P 2025	Met One BAM 1020 (QTY 2)	MetOne BAM 1020 (QTY 2)	Met One BAM 1020 (QTY 2)
Analysis method	Sequential	Sequential	Beta Attenuation	Beta Attenuation	Beta Attenuation
Method code	145	145	122	170	185
Monitoring start date (MM/DD/YYYY)	1/1/2012	1/25/2012	1/1/2012	1/1/2012	10/14/2013
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:1	1:6	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters)	5.9 m	5.9 m	6.2 m	6.4 m	6.3 m
Distance from supporting structure (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A	N/A

Pollutant	PM2.5	PM2.5	PM10 STP	PM2.5	PM <sub>10-2.5</sub>
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A	N/A
(meters)  Distance between collocated monitors (meters)	2.0 m	2.0 m	1.0 m	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	Aluminum	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Bi-weekly	Bi-weekly	Bi-weekly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	Monthly	BI-weekly	BI-weekly	Bi-weekly
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	3/14/18, 8/28/19	3/14/18, 8/28/19	3/14/18, 8/28/19	3/14/18, 8/28/19	3/14/18, 8/28/19
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Pollutant	PM2.5	PM2.5	Meteorology
	Speciation	Speciation	•
Parameter code	Many	Many	61103, 61104, 62101,
			62102, 62201
Spatial scale	N, U	N, U	U
Site type	PE	PE	GB
Monitor objective	RS	RS	RS, TP
Monitor type	Other	Other	SLAMS
Network affiliation	NCore, STN	NCore, STN	NCore
FRM/FEM/ARM/Other	Other	Other	Other
POC	5	5	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> ,			
PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors	Primary	Primary	Other
should be listed as "N/A".)			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A
Instrument manufacturer and model)	Met-One SASS	URG 3000-N	RM Young 81000, Vaisala HMP 155
Method code	810	839	066, 059
Analysis method	Many	Many	Many
Monitoring start date (MM/DD/YYYY)	1/1/2012	1/1/2012	12/23/2011
Required sampling frequency (e.g. 1:3 excluding exceptional			
events/1:1 including exceptional events)	1:3	1:3	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	5.5 m	5.5 m	10 m
Distance from supporting structure (meters)	2 m	2 m	8 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	10 m	10 m	N/A
Distance from obstructions not on roof. Include horizontal			
distance + vertical height above probe for obstructions nearby.	11 m	9 m	N/A
(meters)			
Distance from trees (meters)	11 m	9 m	N/A
Distance to furnace or incinerator flue (meters)	9 m	9 m	N/A
Distance between collocated monitors (meters)	2.5 m	2.5 m	N/A
Unrestricted airflow (degrees)	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	Teflon

Pollutant	PM2.5 Speciation	PM2.5 Speciation	Meteorology
Residence time (seconds)	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Bi-weekly	Bi-weekly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Fresno - Pacific
AQS ID (XX-XXX-XXXX)	06-019-5025
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	01/01/2000
Pollutant Parameters	PM2.5 FRM
Meteorological Parameters	None
Address	1716 Winery, Fresno, CA 93727
GPS Coordinates (decimal degrees)	36.7263N, -119.7330W
Distance to roadways (meters)	40 m (east)
Traffic Count/Year	8,540 / 2018 (Raw traffic count in a 24-hour period: Butler Avenue/Winery Avenue intersection, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Vegetative and paved

Fresno – Pacific (1)				
Pollutant	PM2.5			
Parameter code	88101			
Spatial scale	N			
Site type	PE			
Basic monitoring objective(s)	NC, RS			
Monitor type	SLAMS			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None			
FRM/FEM/ARM/Other	FRM			
POC	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ			
Instrument manufacturer and model	Partisol 2025i			
Analysis method	Gravimetric			
Method code	145			
Monitoring start date (MM/DD/YYYY)	01/01/2000			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31			
Probe height (meters)	11.3 m			
Distance from supporting structure (meters)	2.1 m			
Distance from obstructions on roof. Include				
horizontal distance + vertical height above probe	None			
for obstructions nearby. (meters)				
Distance from obstructions not on roof. Include	53.4m NE			
horizontal distance + vertical height above probe	5.1 above vertical			
for obstructions nearby. (meters)				
Distance from trees (meters)	77 m			
Distance to furnace or incinerator flue (meters)	None			
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A			

Pollutant	PM2.5
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Aluminum
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Biweekly
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A
Frequency of one-point QC check for gaseous instruments	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	2/23/18, 8/28/18
Changes planned within the next 18 months (Y/N)	N

Site Name	Fresno - Drummond					
AQS ID (XX-XXX-XXXX)	06-019-0007					
Representative statistical						
area Name (i.e. MSA, CBSA,	Fresno					
other)						
County	Fresno					
Collecting (Operating) Agency	SJVAPCD					
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB					
Reporting Agency	SJVAPCD: Ozone, NO2, PM2.5	CARB: PM10 FRM				
Site Start Date	07/01/1984					
Pollutant Parameters	Ozone, PM10 FRM, NO2					
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure					
Address	4706 E. Drummond Street, Fresno, CA 93725					
GPS Coordinates (decimal degrees)	36.7055 N, -119.7410 W					
Distance to roadways (meters)	50m					
Traffic Count/Year	27,251/2018 (Raw traffic count in a 24-hour period for nearest roads: Jensen Avenue between Chestnut Avenue and Maple Avenue, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.					
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved					

Fresno – Drummond (1)					
Pollutant	Ozone	PM10	PM10	NO <sub>2</sub>	Meteorology
Parameter code	44201	81102	81102	42602	Many
Spatial scale	N	N	N	N	R
Site type	PE, HC, RT	PE	PE, QA	HC	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS	NC	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None
FRM/FEM/ARM/Other	FRM	FRM	FRM	FEM	Other
POC	1	1	2	1	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	QA Collocated	N/A	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API T265	ECOTECH Hi-Vol 3000	ECOTECH Hi-Vol 3000	Teledyne API T200	ITP- HY-CAL BAAA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS- Met One 010C
Analysis method	Chem.	Gravimetric	Gravimetric	CL	Many
Method code	199	162	162	099	Many
Monitoring start date (MM/DD/YYYY)	05/01/2017	07/01/1984	07/01/1984	03/01/2017	07/01/1984
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	1:6	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 - 12/31	01/01 – 12/31
Probe height (meters)	8.0 m	5.23 m	5.23 m	8.0 m	9.8 m
Distance from supporting structure (meters)	4.37 m	1.58 m	1.58 m	4.37 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	7.0 mH, 0.76 mV	3.35 mH, 0.76 mV	N/A	N/A

Pollutant	Ozone	PM10	PM10	NO <sub>2</sub>	Meteorology
Distance from trees (meters)	15.3 m	15.3 m	18.8 m	15.3 m	17.2 m
Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A	N/A
(meters)	IN/A	IN/A	IN/A	IN/A	IN/A
Distance between monitors fulfilling a QA	N/A	3.9 m	3.9 m	N/A	N/A
collocation requirement (meters).	1471	0.0 111	0.0 111	14// (	14/7 (
Unrestricted airflow (degrees around	360	340	340	360	360
probe/inlet or percentage of monitoring path)					
Probe material for reactive gases	Teflon/Pyrex			Teflon/Pyrex	
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	with	N/A	N/A	with	N/A
Carbonyls (e.g. Pyrex, stainless steel,	Borosilicate			Borosilicate	
Teflon)					
Residence time for reactive gases	40.40	N1/A	NI/A	40.70	NI/A
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	10.48	N/A	N/A	10.76	N/A
Carbonyls (seconds) Frequency of one-point QC check for					
gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual					
PM samplers, including Pb samplers (routine	N/A	Monthly	Monthly	N/A	N/A
checks)	IN/A	Nontriny	Widiting	13//1	14/73
Frequency of flow rate verification for					
automated PM analyzers (routine checks)	N/A	None	None	N/A	N/A
For low volume PM instruments (flow rate <					
200 liters/minute), is any PM instrument					
within 1 m of the lovol? If yes, please list	N/A	None	None	N/A	N/A
distance (meters) and instrument(s).					
For high volume PM instrument (flow rate >					
200 liters/minute), is any PM instrument	NI/A	NIa	Nia	NI/A	N1/0
within 2m of the hivol? If yes, please list	N/A	No	No	N/A	N/A
distance (meters) and instrument(s).					
Date of Annual Performance Evaluation					
conducted in the past calendar year for	2/22/18	N/A	N/A	02/22/18	N/A
gaseous parameters (MM/DD/YYYY)					
Date of two semi-annual flow rate audits			2/22/18,		
conducted in the past calendar year for PM	N/A	2/22/18, 8/28/18	8/28/18	N/A	N/A
monitors (MM/DD/YYYY, MM/DD/YYYY)			0/28/18		
Changes planned within the next 18 months	N	N	N	N	N
(Y/N)	1 4	1 1	14	14	I V

Site Name	Fresno - Foundry
AQS ID (XX-XXX-XXXX)	06-019-2016
Representative statistical	
area Name (i.e. MSA, CBSA,	Fresno
other)	
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	01/01/2016
Pollutant Parameters	NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	2482 Foundry Park Ave, Fresno, CA 93706
GPS Coordinates (decimal degrees)	36.710833N, -119.7775W
Distance to roadways (meters)	16 to 19 meters
Traffic Count/Year	117,000/2016 (Rte 99 and Jensen Avenue off-ramp, Source: Caltrans 2017)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Fresno – Foundry (1)				
Pollutant	NO <sub>2</sub>	Meteorology		
Parameter code	42602	Many		
Spatial scale	MC	N		
Site type	HC	PE		
Basic monitoring objective(s)	NC, RS, TP	RS, TP		
Monitor type	SLAMS	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	Near-road	Near-road		
FRM/FEM/ARM/Other	FEM	Other		
POC	1	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A		
Instrument manufacturer and model	Teledyne T500U	ITP – Hamp. Control 140-100Hv, OT – MET One 060-A-2, BP – MET One 092, WD – MET One 020C, WS – METOne 010C		
Analysis method	CL	Many		
Method code	212	Many		
Monitoring start date (MM/DD/YYYY)	01/01/2016	01/01/2016		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	5.7 m	5.9 m		
Distance from supporting structure (meters)	1.8 m	2.0 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V		
Distance from trees (meters)	8.45 m	8.5 m		
Distance to furnace or incinerator flue (meters)	N/A	N/A		

Pollutant	NO <sub>2</sub>	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	350
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	3.48	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Parlier
AQS ID (XX-XXX-XXXX)	06-019-4001
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC
Reporting Agency	SJVAPCD
Site Start Date	6/1/1983
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation
Address	9240 S. Riverbend Ave., Parlier, CA 93648
GPS Coordinates (decimal degrees)	36.5972 N, -119.5040 W
Distance to roadways (meters)	100 m (east)
Traffic Count/Year	21,260/2018 (Raw traffic count in a 24-hour period for nearest roads: E. Manning Avenue between S. Mendocino Avenue and S. Newmark Avenue, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetation

Parlier (1)						
Pollutant	Ozone	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Parameter code	44201	44201	42602	Many	43102	Many
Spatial scale	N	N	N	N	N	R
Site type	HC, RT	HC, RT	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	Other	Other	Many
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS, RA40	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other	Other	Other
POC	1	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne 400E	Teledyne T265	Teledyne 200E	Xontech 910A	Synspec 115	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, RH- Vaisala HMP45D, SRD- Epply Mod.8-48, WD- Met One 020C, WS- Met One 010C
Analysis method	UV	Chemiluminescen ce	CL	GC	GC	Many
Method code	087	199	099	126	011	Many
Monitoring start date (MM/DD/YYYY)	06/01/1983	06/01/1983	06/01/1983	06/01/1983	06/01/1983	06/01/1983
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	1:3	Hourly	Hourly

Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 - 12/31
Probe height (meters)	8.7 m	8.7 m	8.7 m	8.7 m	8.7 m	9.1 m
Distance from supporting structure (meters)	2.7 m	2.7 m	2.7m	2.7 m	2.7 m	4.9 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	39.0 m	39.0 m	39.0 m	39.0 m	39.0 m	38.9 m
Distance from trees (meters)	11.0 m	11.0 m	11.0 m	11.0 m	11.0 m	10.2 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Teflon/Pyre x with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.3	10.3	9.98	4.69	13.97	N/A
Frequency of one-point QC check for gaseous instruments	daily	daily	daily	daily	daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A	N/A

Frequency of flow rate						
verification for automated PM	N/A	N/A	N/A	N/A	N/A	N/A
analyzers (routine checks)	14//	14/74	14/71	14/7	1 1 1 1 1	14/74
For low volume PM						
instruments (flow rate < 200						
liters/minute), is any PM						
instrument within 1 m of the	N/A	N/A	N/A	N/A	N/A	N/A
lovol? If yes, please list	,,,	,		,,, .	. 47.	
distance (meters) and						
instrument(s).						
For high volume PM						
instrument (flow rate > 200						
liters/minute), is any PM						
instrument within 2m of the	N/A	N/A	N/A	N/A	N/A	N/A
hivol? If yes, please list						
distance (meters) and						
instrument(s).						
Date of Annual Performance						
Evaluation conducted in the	10/22/18	10/22/18	N/A	N/A	N/A	N/A
past calendar year for gaseous	10/22/10	10/22/10	14/71	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 7 1	1477
parameters (MM/DD/YYYY)						
Date of two semi-annual flow						
rate audits conducted in the	NI/A	NI/A	NI/A	NI/A	NI/A	NI/A
past calendar year for PM	N/A	N/A	N/A	N/A	N/A	N/A
monitors (MM/DD/YYYY,						
MM/DD/YYYY)	End date					
Changes planned within the	5/31/18	Start date 6/1/18	N	N	N	N
next 18 months (Y/N)	3/31/10					

Site Name	Huron
AQS ID (XX-XXX-XXXX)	06-019-2008
Representative statistical	
area Name (i.e. MSA, CBSA,	Fresno
other)	
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	09/01/09
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Barometric Pressure
Address	16875 4 <sup>th</sup> St, Huron, CA 93234
GPS Coordinates (decimal degrees)	36.2363 N, -119.7656 W
Distance to roadways (meters)	100 m (north)
Traffic Count/Year	3,300/2017 (Traffic count for nearest roads: Rte 269/Rte 198, Source: Caltrans 2017)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Huron (1)					
Pollutant	PM2.5	Meteorology			
Parameter code	88502	64101			
Spatial scale	N	N			
Site type	PE	PE			
Basic monitoring objective(s)	TP	TP			
Monitor type	SPM	Other			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None			
FRM/FEM/ARM/Other	Non-FEM	Other			
POC	3	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A			
Instrument manufacturer and model	MET One BAM 1020	ITP – Hy-Cal BA-512-A-A-3-B, BP – Met One 092			
Analysis method	Beta-Attenuation	Many			
Method code	731	014			
Monitoring start date (MM/DD/YYYY)	09/12/2009	02/01/2010			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31			
Probe height (meters)	6.42 m	10 m			
Distance from supporting structure (meters)	1.14 m	N/A			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from trees (meters)	41.5 m	N/A			
Distance to furnace or incinerator flue (meters)	N/A	N/A			
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A			
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360			

Pollutant	PM2.5	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	None	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	None	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/16/18, 11/7/18	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Hanford - Irwin				
AQS ID (XX-XXX-XXXX)	06-031-1004				
Representative statistical					
area Name (i.e. MSA, CBSA, other)	Hanford-Corcoran				
County	Kings				
Collecting (Operating) Agency	SJVAPCD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM10 FRM				
Reporting Agency	SJVAPCD: Ozone, PM10 FEM, PM2.5 FEM, NO2, Meteorology	CARB: PM10 FRM			
Site Start Date	10/11/1993				
Pollutant Parameters	Ozone, PM10 FRM, PM10 FEM, PM2.5 FEM, NO2				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure				
Address	807 S. Irwin St., Hanford, CA 93230				
GPS Coordinates (decimal degrees)	36.3147 N, -119.6440 W				
Distance to roadways (meters)	60 m (east)				
Traffic Count/Year	9,647/2016 (Traffic count for nearest roads: Hanford-Armona Rd east of S. Williams St., Source: City of Hanford Public Works - Engineering, Traffic Counts Volume Summary 2017 – City of Hanford.)				
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative				

Hanford – Irwin (1)						
Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology		
Parameter code	44201	88101	42602	Many		
Spatial scale	N	N	N	N		
Site type	HC, PE	PE	PE	PE		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	Many		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None		
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other		
POC	1	3	1	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Υ	N/A	N/A		
Instrument manufacturer and model	Teledyne 400E	Teledyne 602	Teledyne 200E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C		
Analysis method	UV	Beta Attenuation	CL	Many		
Method code	087	204	099	Many		
Monitoring start date (MM/DD/YYYY)	02/25/2010	11/01/2017	02/25/2010	02/25/2010		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly		
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 m	4.5 m	4.7 m	9.7 m		
Distance from supporting structure (meters)	1.8 m	1.8 m	1.8 m	N/A		

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	24.2 mV, 2.5 mH	26.5 mV, 2.5 mH	24.2 mV, 2.5 mH	N/A
Distance from trees (meters)	26.5 m	29.5 m	26.5 m	26.6 m
Distance to furnace or incinerator flue (meters)	23.5 m	23.3 m	23.5 m	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	353.2	353.2	353.2	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	12.69	N/A	13.40	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	10/24/18	N/A	10/24/17	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/01/18, 10/24/18	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Hanford – Irwin (2)				
Pollutant	PM10 LC	PM10 STP	PM10 STP	
Parameter code	85101	81102	81102	
Spatial scale	N	N	N	
Site type	PE	PE	PE	
Basic monitoring objective(s)	RS, TP	NC, RS, TP	NC, RS	
Monitor type	Other	SLAMS	SLAMS	
Network affiliation(s), if applicable (a monitor may	None	None	None	
have none, one, or multiple)	None	None	None	
FRM/FEM/ARM/Other	FEM	FEM	FRM	
POC	3	3	1	
Primary / QA Collocated / Other (provide for all				
PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-	Other	Primary	Primary	
PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)				
Is it suitable for comparison against the annual	N	N	N/A	
PM <sub>2.5</sub> ? (Y/N)	14	IN .		
Instrument manufacturer and model	Teledyne 602	Teledyne 602	ECOTECH Hi-Vol 3000	

Pollutant	PM10 LC	PM10 STP	PM10 STP
Analysis method	Beta Attenuation	Beta Attenuation	Gravimetric
Method code	205	205	162
Monitoring start date (MM/DD/YYYY)	11/01/2017	11/01/2017	04/01/2015
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:6
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	4.6 m	4.8 m	4.5 m
Distance from supporting structure (meters)	1.8 m	2.0 m	1.8 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	24.3 mV, 2.5mH	24.3 mV, 2.5mH	24.3 mV, 2.5mH
Distance from trees (meters)	26.6 m	26.6 m	26.6 m
Distance to furnace or incinerator flue (meters)	22.8 m	22.8 m	22.8 m
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	353.2	353.2	353.2
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A

Pollutant	PM10 LC	PM10 STP	PM10 STP
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers (routine checks)	Biweekly	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	No	No	No
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	05/01/18, 10/24/18	05/01/18, 10/24/18	05/01/18, 10/24/18
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Corcoran-Patterson
AQS ID (XX-XXX-XXXX)	06-031-0004
Representative statistical	
area Name (i.e. MSA, CBSA,	Hanford-Corcoran
other)	
County	Kings
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM2.5 FRM
Reporting Agency	CARB: PM2.5 FRM   SJVAPCD: PM2.5 FEM, PM10 FEM, Meteorology
Site Start Date	10/1/1996
Pollutant Parameters	PM2.5 FRM, PM2.5 FEM, PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	1520 Patterson Ave., Corcoran, CA 93212
GPS Coordinates (decimal degrees)	36.1022 N, -119.5660 W
Distance to roadways (meters)	30 m (east)
Traffic Count/Year	2,900/2017 (Traffic count for nearest roads: JCT. Rte 43/Rte 137, Source: Caltrans 2017.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, gravel

Corcoran-Patterson (1)					
Pollutant	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Parameter code	88101	88101	85101	81102	Many
Spatial scale	N	N	N	N	N
Site type	HC	HC, PE	HC, PE	HC, PE	GB
Basic monitoring objective(s)	NC, RS	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	Other	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	Other
POC	1	3	7	7	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other	Other	Primary	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	Υ	N	N	N/A
Instrument manufacturer and model	Thermo Partisol 2025i	Teledyne 602	Teledyne 602	Teledyne 602	ITP- Hampshire Controls Corp. 125-50HLV, OT- Met One 060A- 2, WD- Met One 020C, WS-Met One 010C
Analysis method	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
Method code	145	204	205	205	Many
Monitoring start date (MM/DD/YYYY)	01/01/2016	01/01/2017	01/01/2017	01/01/2017	01/01/2017
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	Hourly	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	6.3 m	6.2 m	6.6 m	6.6 m	5.6 m

Pollutant	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Distance from supporting structure (meters)	2.1 m	2.0 m	2.4 m	2.4 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	115.7 m H, 1.5 m V	118.1 m H, 1.5 m V	118.1 m H, 1.5 m V	118.11 m H, 1.5 m V	118.6 m H, 1.5 m V
Distance from trees (meters)	62.5 m E 65.2 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	65.5 m E, 66.3 m S
Distance to furnace or incinerator flue (meters)	79.1 m	76.6 m	76.6 m	76.6 m	76.8 m
Distance between monitors fulfilling a QA collocation requirement (meters).	2.7 m	2.7 m	2.9 m	2.9 m	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	365	365	365	365	365
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	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	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Monthly	N/A	N/A	N/A	N/A

Pollutant	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	Biweekly	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No.	No.	No	No.	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	5/16/18, 11/6/18	5/16/18, 11/6/18	5/16/18, 11/6/18	5/16/18, 11/6/18	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Visalia - Airport
AQS ID (XX-XXX-XXXX)	06-107-3000
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville
County	Tulare
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	07/01/98
Pollutant Parameters	None
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation
Address	9501 West Airport Drive, Visalia, CA 93277
GPS Coordinates (decimal degrees)	39.3266 N, -119.3984 W
Distance to roadways (meters)	100m (west)
Traffic Count/Year	66,000/2017 (Traffic count for nearest roads: JCT. Rte 99/Rte 198 East., Source: Caltrans 2017.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetative

Visalia – Airport (1)			
Pollutant	Meteorology		
Parameter code	Many		
Spatial scale	R		
Site type	GB		
Basic monitoring objective(s)	RS, TP		
Monitor type	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS		
FRM/FEM/ARM/Other	Other		
POC	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A		
Instrument manufacturer and model	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, RH- Vaisala HMP45D, SRD- Epply Mod. 8-48WD- Met One 020C, WS-Met One 010C		
Analysis method	Many		
Method code	Many		
Monitoring start date (MM/DD/YYYY)	07/01/1998		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31		
Probe height (meters)	9.8 m		
Distance from supporting structure (meters)	9.8 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	50.9m H 0.0m V		
Distance from trees (meters)	6.1 m		
Distance to furnace or incinerator flue (meters)	N/A		
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A		
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	270		

Pollutant	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A
Frequency of one-point QC check for gaseous instruments	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A
Changes planned within the next 18 months (Y/N)	Station was shut down 12/31/18.

Site Name	Visalia – Church St	
AQS ID (XX-XXX-XXXX)	06-107-2002	
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville	
County	Tulare	
Collecting (Operating) Agency	CARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB	
Reporting Agency	CARB	
Site Start Date	1/1/1979	
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, PM2.5 Speciation, NO <sub>2</sub>	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity	
Address	310 N. Church St., Visalia CA 93291	
GPS Coordinates (decimal degrees)	36.3325 N, -119.2909 W	
Distance to road	25 m (west)	
Traffic Count/Year	10,000/2017(Traffic count for nearest roads: N Court St and W School Ave Source: Caltrans AADT 2017)	
Ground Cover	Paved	

Visalia-Church St (1)				
Pollutant	Ozone	NO <sub>2</sub>	PM10 STP / LC	PM2.5
Parameter code	44201	42602	81102, 85101	88101
Spatial scale	N	N	N	N
Site type	GB	PE	PE	PE, HC
Basic monitoring objective(s)	NC, RS,TP	NC, RS, TP	NC, RS,TP / RS,TP	NC, RS
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	FEM	FRM
POC	1	1	5	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	Primary
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	Y
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E	Met One 1020	R&P 2025
Analysis method	UV	Gas phase Chem.	Beta attenuation	Gravimetric
Method code	087	099	122	145
Monitoring start date (MM/DD/YYYY)	1/1/1979	1/1/1979	8/1/2015	1/3/1999
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	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/Inlet height above ground (meters)	6.7 m	6.7 m	6.2 m	5.9 m
Distance from supporting structure (meters)	2.8 m	2.8 m	2.3 m	2.1 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None
Distance from trees (meters)	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None
Distance between collocated monitors (meters)	None	None	N/A	2.3 m
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	PM10 STP / LC	PM2.5
Residence time (seconds)	11.6	11.0	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	Monthly	N/A
Frequency of one-point QC check (gaseous)	5x/week	5x/week	N/A	N/A
Last Annual Performance Evaluation (gaseous)	11/15/2018	11/15/2018	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	05/01/2018, 11/15/2018	05/01/2018, 11/15/2018
Changes planned within the next 18 months (Y/N)	N	N	N	N

Visalia – Church St (2)				
Pollutant	PM2.5	PM2.5 Speciation	Meteorology	
Parameter code	88502	Many	61106, 61104, 62102, 62201, 62101	
Spatial scale	N	N	R	
Site type	RT, PE	PE	General	
Basic monitoring objective(s)	RS, TP	RS	RS, TP	
Monitor type	Other	SLAMS	SLAMS	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CSN Supplemental	None	
FRM/FEM/ARM/Other	Non-FEM	FRM	Other	
POC	3	5	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other	

Pollutant	PM2.5	PM2.5 Speciation	Meteorology
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A	N/A
Instrument manufacturer and model	Met One 1020	Many	RM Young 81000, Visalia HMP 155
Analysis method	Beta attenuation	Many	Sonic, Instrumental
Method Code	731	Many	066, 059
Monitoring start date (MM/DD/YYYY)	11/01/2001	01/14/2002	01/01/1995
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:3	Hourly
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 -12/31	01/01 -12/31
Probe height (meters)	6.0 m	5.9 m	11.9 m
Distance from supporting structure (meters)	2.2 m	None	None
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None
Distance from trees (meters)	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None
Distance between collocated monitors (meters)	2.3 m	None	None
Unrestricted airflow (degrees)	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	Monthly	N/A	N/A

Pollutant	PM2.5	PM2.5 Speciation	Meteorology
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	05/01/2018, 11/15/2018	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Porterville
AQS ID (XX-XXX-XXXX)	06-107-2010
Representative statistical	
area Name (i.e. MSA, CBSA,	Visalia-Porterville
other)	
County	Tulare
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	03/08/2010
Pollutant Parameters	Ozone, PM2.5 Non-FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	1839 S. Newcomb St., Porterville, CA 93257
GPS Coordinates (decimal degrees)	36.0310 N, -119.0550 W
Distance to roadways (meters)	100m (south)
Traffic Count/Year	24,800/2076 (Ahead AADT traffic count for nearest roads: Junction SR 190/SR 65, Source: Caltrans 2017)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Porterville (1)				
Pollutant	Ozone	PM2.5	Meteorology	
Parameter code	44201	88502	Many	
Spatial scale	N	N	N	
Site type	HC, PE	PE	PE	
Basic monitoring objective(s)	NC, RS, TP	TP	TP	
Monitor type	SLAMS	SPM	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	
FRM/FEM/ARM/Other	FEM	Non-FEM	Other	
POC	1	3	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A	
Instrument manufacturer and model	Teledyne API 400E	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C	
Analysis method	UV	Beta Attenuation	Many	
Method code	087	731	Many	
Monitoring start date (MM/DD/YYYY)	03/08/2010	03/08/2010	03/08/2010	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 -12/31	01/01 -12/31	
Probe height (meters)	5.3 m	4.3 m	9.1 m	
Distance from supporting structure (meters)	7.1 m	1.8 m	7.1 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	2.1 mH, 0.0mV	3.5mH, 0.0 mV	None	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from trees (meters)	11.5 m N	14.3 m N	14.9 m N	
Distance to furnace or incinerator flue (meters)	175.5 m S	174 m S	175.8 m S	

Pollutant	Ozone	PM2.5	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	357	357	357
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	7.47	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/6/18	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	05/16/18, 11/6/18	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site name	Sequoia-Ash Mountain
AQS ID (XX-XXX-XXXX)	06-107-0009
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville
County	Tulare
Collecting (Operating) Agency	All equipment operated by NPS
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	07/01/1999
Pollutant Parameters	Ozone, PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation
Address	Ash Mountain, Sequoia National Park 47050 Generals Hwy, Three Rivers, CA 93271
GPS Coordinates (decimal degrees)	36.4894 N, -118.8290 W
Distance to road	120 m (north)
Distance to road	
Traffic Count/Year	2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)
Ground Cover	Dirt, vegetative

Sequoia–Ash Mountain (1)				
Pollutant	Ozone	PM2.5	Meteorology	
Parameter code	44201	88501	Many	
Spatial scale	R	R	R	
Site type	HC, RT	HC	GB	
Monitor objective	NC, RS, TP	RS, TP	RS, TP	
Monitor type	Non-EPA Federal	Non-EPA Federal	Non-EPA Federal	
Network affiliation	CASTNET	None	CASTNET	
FRM/FEM/ARM/Other	Other	Non-FEM	Other	
POC	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A	
Instrument manufacturer and model	Thermo TECO 49, 49C	MET One BAM 1020	Many	
Analysis method	UV	Beta Attenuation	Many	
Method code	047	170	Many	
Monitoring start date (MM/DD/YYYY)	07/01/1999	3/19/2007	10/4/2001	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	10 m	4 m	10 m	
Distance from supporting structure (meters)	3 m	1.5 m	3 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 m	N/A	5 m	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from trees (meters)	15 m	15 m	15 m	
Distance to furnace or incinerator flue (meters)	305 m	305 m	305 m	
Distance between monitors fulfilling a QA collocation requirement (meters).	3 m	3 m	3 m	
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.4	N/A	N/A	

Pollutant	Ozone	PM2.5	Meteorology
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Monthly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/27/18	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	9/12/18, 4/10/19	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site name	Sequoia-Lower Kaweah
AQS ID (XX-XXX-XXXX)	06-107-0006
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville
County	Tulare
Collecting (Operating) Agency	All equipment operated by NPS
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	01/01/1987
Pollutant Parameters	Ozone, Meteorology
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation
Address	Giant Forest, Sequoia National Park, 47050 Generals Highway, Three Rivers, CA 93271
GPS Coordinates (decimal degrees)	36.5661 N, -118.7776 W
Distance to road	380 m (southeast)
Traffic Count/Year	2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)
Ground Cover	Dirt, vegetation

Sequoia–Lower Kaweah (1)			
Pollutant	Ozone	Meteorology	
Parameter code	44201	Many	
Spatial scale	R	R	
Site type	RT	GB	
Monitor objective	NC, RS, TP	RS, TP	
Monitor type	Non-EPA Federal	Non-EPA Federal	
Network affiliation	None	None	
FRM/FEM/ARM/Other	Other	Other	
POC	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	
Instrument manufacturer and model	Thermo TECO 49, 49C	Many	
Analysis method	UV	Many	
Method code	047	Many	
Monitoring start date (MM/DD/YYYY)	01/01/1987	04/01/1987	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	5	5	
Distance from supporting structure (meters)	1.5	10	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from trees (meters)	5-10 m	5-10 m	
Distance to furnace or incinerator flue (meters)	457 m	457 m	
Distance between monitors fulfilling a QA collocation requirement (meters)	5-10 m	10-15 m	
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	

Pollutant	Ozone	Meteorology
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.9	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	11/28/18	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Shafter		
AQS ID (XX-XXX-XXXX)	06-029-6001		
Representative statistical			
area Name (i.e. MSA, CBSA,	Bakersfield		
other)			
County	Kern		
Collecting (Operating) Agency	CARB: Ozone, NO2;	SJVAPCD: Meteorology, Speciated VOC, NMH	
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: Ozone, NO2	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC, NMH	
Reporting Agency	CARB: Ozone, NO2	SJVAPCD: Speciated VOC, NMH, Meteorology	
Site Start Date	01/01/1989		
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH		
Meteorological Parameters	Wind speed, wind direction, o	utdoor temperature, relative humidity, barometric pressure, solar radiation	
Address	578 Walker St., Shafter, CA 9	3263	
GPS Coordinates (decimal degrees)	35.5034 N, -119.2726 W		
Distance to roadways (meters)	10m (southwest)		
Traffic Count/Year	4,002/2018 (Traffic count for nearest roads: Central Ave and Walker St., Source: Kern Council of Governments.)		
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved		

	Shafter (1)				
Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Parameter code	44201	42602	Many	43102	Many
Spatial scale	N	N	N	N	R
Site type	GB, PE	PE	HC	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	Other	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FEM	FRM	Other	Other	Other
POC	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	Other	Other	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne 400E	Teledyne API 200E	Xontech 910/912	Synspec Alpha 115	ITP- Hy-Cal BA512AA3BB, OT- Met One 060A-2, SRD- Epply Mod. 8-48, WD- Met One 020B, WS- Met One 010C, BP- Met One 092
Analysis method	UV	CL	Preconc. GC/FID/MSD	Flame Ionization	Many
Method code	087	099	177	011	Many
Monitoring start date (MM/DD/YYYY)	07/01/1989	07/01/1989	07/25/2001	01/01/2016	01/01/1989
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	7.3 m	7.3 m	7.0 m	7.0 m	10 m
Distance from supporting structure (meters)	2.6 m	2.6 m	2.4 m	2.4 m	None
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	19m H, 2m V (Tree)	19m H, 2m V (Tree)	N/A
Distance from trees (meters)	None	None	19m N, 70m SE	19m N, 70m SE	70m SE
Distance to furnace or incinerator flue (meters)	None	None	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	None	None	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	355	350	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless Steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.3	11.7	2.79	10.6 sec.	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	10/31/2018	10/31/2018	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	Yes. Upgrading aging Teledyne PI 200E NOx monitor (method 099) to new Thermo Scientific 2i/42iQ NOx monitors method 074).	N	N	Yes. Installation of meteorological sensors to collect resultant wind speed and direction, relative humidity, and outside temperature.  MET was shut down on 11/16/18 due to safety reasons.

Site Name	Oildale
AQS ID (XX-XXX-XXXX)	06-029-0232
Representative statistical	
area Name (i.e. MSA, CBSA,	Bakersfield
other)	
County	Kern
Collecting (Operating)	CARB
Agency	CAND
Analytical Lab (i.e. weigh lab,	CARB
toxics lab, other)	O/ ICD
Reporting Agency	CARB
Site Start Date	01/01/1980
Pollutant Parameters	Ozone, PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity
Address	3311 Manor St, Oildale CA 93308
GPS Coordinates (decimal	35.4380 N, -119.0167 W
degrees)	33.4300 N, -119.0107 W
Distance to road	150 m (northwest)
Traffic Count/Year	6,683/2018 (Traffic count for roads: Manor St. between Day Ave and Felton St.,
Tranic County I car	Source: Kern Council of Governments.)
Ground Cover	Dirt, vegetative

Oildale (1)				
Pollutant	Ozone	PM10 STP / LC	Meteorology	
Parameter code	44201	81102, 85101	Many	
Spatial scale	U	MD	U	
Site type	HC, RT	SO	GB	
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC	
Monitor type	SLAMS	SLAMS	SLAMS	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	
FRM/FEM/ARM/Other	FEM	FEM	Other	
POC	1	3	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400	MET One BAM 1020	RM Young 81000, Vaisala HMP 155	
Analysis method	UV	Beta Attenuation	Many	
Method code	087	122	Many	
Monitoring start date (MM/DD/YYYY)	01/01/1984	06/01/2017	01/01/1999, 03/0620/04, 10/01/2005	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	6.7 m	2.2 m	8.5 m	
Distance from supporting structure (meters)	3.0 m	1.5 m	1.3 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	

Pollutant	Ozone	PM10 STP / LC	Meteorology
Distance from trees (meters)	10.1 m	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A
Residence time (seconds)	12.4	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Bi-Monthly	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A
Last Annual Performance Evaluation (gaseous)	08/29/2018	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	03/8/2018, 08/29/2018	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Bakersfield - Golden/M St
AQS ID (XX-XXX-XXXX)	06-029-0010
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	06/10/2014
Pollutant Parameters	PM10 FRM and PM2.5 FRM
Meteorological Parameters	None
Address	2820 M St., Bakersfield, CA 93301
GPS Coordinates (decimal degrees)	35.385574 N, -119.015009 W
Distance to roadways (meters)	13 M
Traffic Count/Year	3,280/2018 (Traffic count for nearest roads: 30th St. at Golden State Ave., Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield – Golden/M St (1)			
Pollutant	PM2.5	PM10 STP	
Parameter code	88101	81102	
Spatial scale	MC	MC	
Site type	PE	PE	
Basic monitoring objective(s)	NC, RS	NC, RS	
Monitor type	SLAMS	SLAMS	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	
FRM/FEM/ARM/Other	FRM	FRM	
POC	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	N/A	
Instrument manufacturer and model	Thermo 2025i	Hi Vol SSI Ecotech Model 3000	
Analysis method	Gravimetric	Gravimetric	
Method code	145	162	
Monitoring start date (MM/DD/YYYY)	07/02/2014	04/01/2015	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:6	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	6.2 m	5.9 m	
Distance from supporting structure (meters)	2.1 m	1.8 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from trees (meters)	11m WSW	12m WSW	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	340	340	
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	

Pollutant	PM2.5	PM10 STP
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	No	No
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	03/05/18; 08/30/18	03/05/18; 08/30/18
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Bakersfield - Westwind
AQS ID (XX-XXX-XXXX)	06-019-2019
Representative statistical area Name (i.e. MSA, CBSA, other)	Kern
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	01/01/2019
Pollutant Parameters	NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	2001 Westwind Drive, Bakersfield, CA 93301
GPS Coordinates (decimal degrees)	35.37695278N -119.04388889W
Distance to roadways (meters)	16 to 19 meters
Traffic Count/Year	124,000; 2017* Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2017) 2,726; 2018** Traffic count for monitoring station's street address: Westwind Drive; Source: Kern Council of Governments
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield – Westwind (1)					
Pollutant	NO <sub>2</sub>	Meteorology			
Parameter code	42602	Many			
Spatial scale	MC	N			
Site type	HC	PE			
Basic monitoring objective(s)	NC, RS, TP	RS, TP			
Monitor type	SLAMS	Other			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	Near-road	Near-road			
FRM/FEM/ARM/Other	FEM	Other			
POC	1	Many			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A			
Instrument manufacturer and model	Teledyne T500U	ITP – Hamp. Control 140-100Hv, OT – MET One 060-A-2, BP – MET One 092, WD – MET One 020C, WS – METOne 010C			
Analysis method	CL	Many			
Method code	212	Many			
Monitoring start date (MM/DD/YYYY)	01/01/2019	01/01/2019			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31			
Probe height (meters)	N/A	N/A			
Distance from supporting structure (meters)	N/A	N/A			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A			
Distance from trees (meters)	N/A	N/A			
Distance to furnace or incinerator flue (meters)	N/A	N/A			

Pollutant	NO <sub>2</sub>	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	N/A	N/A
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	Station is set up, but not in operation due to security reasons.	Station is set up, but not in operation due to security reasons.

Site Name	Bakersfield-California
AQS ID (XX-XXX-XXXX)	06-029-0014
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	03/01/1994
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FRM, PM2.5 Non-FEM, NO <sub>2</sub> , Toxics, PM2.5 Speciation (STN)
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity
Address	5558 California Ave., Bakersfield CA 93309
GPS Coordinates (decimal degrees)	35.3566 N, -119.0626 W
Distance to road	300 m (south)
Traffic Count/Year	33,244/2017 (Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr., Source: Kern Council of Governments.)
Ground Cover	Paved

Bakersfield – California (1)					
Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Parameter code	44201	81102	81102	88101	88101
Spatial scale	N	N	N	N	N
Site type	HC, GB	PE	PE, QA	HC, PE	HC, PE, QA
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS	NC, RS	NC, RS
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	FRM	FRM	FRM
POC	1	1	2	1	2
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	QA Collocated	Primary	QA Collocated
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	Υ	Υ
Instrument manufacturer and model	Teledyne API 400E	SA/GMW 1200	SA/GMW 1200	Thermo 2025i	Thermo 2025i
Analysis method	UV	Gravimetric	Gravimetric	Gravimetric	Gravimetric
Method code	087	063	063	145	145
Monitoring start date (MM/DD/YYYY)	3/1/1994	4/1/1994	1/3/2003	1/1/1999	1/1/1999
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	1:12	1:1	1:12
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters) (ground to rooftop = 4.1m)	7.2 m	5.62 m	5.62 m	6.23 m	6.23 m
Distance from supporting structure (above rooftop) (meters)	3.1 m	1.52 m	1.52 m	2.13 m	2.13 m

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5.5 m rooftop access	7 m rooftop access	10 m rooftop access	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 mH x 4.37 mD parapet	None	None	1.2 mH x 3.12 mD parapet	1.2 mH x 3.12 mD parapet
Distance from trees (meters)	>10 m	10.5 m	10 m	9.5 m	11.5 m
Distance to furnace or incinerator flue (meters)	3 m	3 m	2.8 m	2.7 m	3.5 m
Distance between collocated monitors (meters)	N/A	3.5 m	3.5 m	2.3 m	2.3 m
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A	N/A
Residence time (seconds)	11.58	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	03/07/2018	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	03/07/2018, 08/29/2018	03/07/2018, 08/29/2018	03/07/2018, 08/29/2018	03/07/2018, 08/29/2018
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

	Bakersfield – California (2)					
Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation		
Parameter code	88502	88356	Many	Many		
Spatial scale	N	N,U	N,U	N,U		
Site type	PE	PE, QA	PE	PE, QA		
Basic monitoring objective(s)	RS, TP	RS	RS	RS		
Monitor type	Other	SLAMS	Other	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	STN	CSN STN	CSN STN		
FRM/FEM/ARM/Other	Non-FEM	Other	Other	Other		
POC	3	6	5	6		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary & QA Collocated	Primary	QA Collocated		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A	N/A	N/A		
Instrument manufacturer and model	Met One BAM 1020	URG 3000-N	Met One SASS	Met One SASS		
Analysis method	Beta Attenuation	Cyclone inlet	Many	Many		
Method code	731	839	810	810		
Monitoring start date (MM/DD/YYYY)	11/01/2001	05/03/2007	01/01/2001	01/01/2001		

Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Primary = 1:3 / Collocated = 1:6	1:3	1:6
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	6.43 m	6.15 m	5.95 m	5.95 m
Distance from supporting structure (meters)	2.33 m	2.05 m	1.85 m	1.85 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 m rooftop access	11 m & 13 m rooftop access	7.5 m rooftop access	9.5 m rooftop access
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 mH x 4.37 mD	Parapet height of 1.1 m surrounding rooftop (1.2 H x 7.0 D)	1.2 mH x 7.0 mD	1.2 mH x 7.0 mD
Distance from trees (meters)	8.5 m	7 m & 9 m	7 m	8 m
Distance to furnace or incinerator flue (meters)	1.5 m	5 m & 7 m	5 m	6 m
Distance between collocated monitors (meters)	N/A	1.5 m & 1.5 m	2 m	2 m
Unrestricted airflow (degrees)	360	360 & 360	360	360
Probe material (Teflon, etc.)	N/A	N/A	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A

Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	03/07/2018, 08/29/2018	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Bakersfield – California (3)				
Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology
Parameter code	42602	Many	Many	61103, 61104, 62102, 62201, 62101
Spatial scale	N	N	N	R
Site type	PE	PE	PE, QA	GB
Basic monitoring objective(s)	NC, RS, TP	RS, TP	RS, TP	RS, TP
Monitor type	SLAMS	Many	Many	Many
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CA Air Toxics	CA Air Toxics	SLAMS
FRM/FEM/ARM/Other	FRM	Other	Other	Other
POC	1	Many	Many	Many

Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	QA Collocated	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 200E	Xontech 924	Xontech 924	Many
Analysis method	CL	Many	Many	Sonic, Instrumental
Method code	099	Many	Many	Many
Monitoring start date (MM/DD/YYYY)	04/01/1994	01/01/2007	01/01/2007	04/01/1994
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:12	1:12	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters)	7.2 m	5.7 m	5.7 m	13.8 m
Distance from supporting structure (meters)	3.1 m	1.9 m	1.9 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5.5 m	7.5 m	9.5 m	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 mH x 4.37 mD	1.2 mH x 3.89 mD	1.2 mH x 3.89 mD	N/A
Distance from trees (meters)	>10 m	14 m	15 m	N/A
Distance to furnace or incinerator flue (meters)	3 m	2 m	3 m	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A

Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A
Residence time (seconds)	10.2	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	03/07/2018	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	Yes. Upgrading aging Teledyne API 200E NOx monitor (method 099) to new Thermo Scientific 42i/42iQ NOx monitors (method 074).	N	N	N

Site Name	Bakersfield - Muni			
AQS ID (XX-XXX-XXXX)	06-029-2012			
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield			
County	Kern			
Collecting (Operating) Agency	SJVAPCD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC			
Reporting Agency	SJVAPCD			
Site Start Date	06/01/2012			
Pollutant Parameters	Ozone , CO, NO2, Speciated VOC, NMH			
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation			
Address	2000 South Union Ave., Bakersfield, CA 93307			
GPS Coordinates (decimal degrees)	35.3313 N, -119.0000 W			
Distance to roadways (meters)	280m (west)			
Traffic Count/Year	20,545 / 2018 (Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr and Watts Dr. Source: Kern Council of Governments) 5,033 / 2018 (Traffic count for road adjacent to monitoring station: Watts Dr between S Union Ave and Short St. Source: Kern Council of Governments)			
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved			

Bakersfield – Muni (1)										
Pollutant	Ozone	Ozone	со	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology			
Parameter code	44201	44201	42101	42602	Many	43102	Many			
Spatial scale	N	N	N	N	N	N	R			
Site type	HC	HC	PE	HC	HC	PE	GB			
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP			
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	Other	Other	Other			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS, RA40	PAMS	PAMS	PAMS			
FRM/FEM/ARM/Other	FEM	FEM	FEM	FEM	Other	Other	Other			
POC	1	1	1	1	1	1	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A	N/A	Other			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400E	Teledyne API T265	Thermo 48i TLE	Teledyne API 200E	Xontech 910/ Xontech 925	Synspec Alpha 115	Many			
Analysis method	UV Absorption	Chemiluminescence	Non- dispersive IR	Chem.	GC / UV Absorption	TEI 55: Propane	Many			
Method code	087	199	554	099	177 / 202	011	Many			
Monitoring start date (MM/DD/YYYY)	06/01/2012	06/01/2012	07/01/2012	07/01/2012	06/01/2012	10/01/2012	07/01/2012			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	1:3	Hourly	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31			
Probe height (meters)	6.0 m	6.0 m	6.0 m	6.0 m	6.3 m	6.0 m	10 m			
Distance from supporting structure (meters)	2.1 m	2.1 m	2.1 m	2.1 m	2.4 m	2.1 m	N/A			

Pollutant	Ozone	Ozone	со	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Distance from trees (meters)	Over 75 m	Over 75 m	Over 75 m	Over 75 m	Over 75 m	Over 75 m	Over 75 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	350	350	350	350	350	350
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless Steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	11.2	12.9	12.3	11.8	4	17.7	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol?	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	Ozone	СО	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	03/06/18	Not yet available	03/06/18	03/06/18	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	End date 7/31/18	Start date 8/1/18	N	N	N	N	N

Site Name	Bakersfield-Airport (Planz)
AQS ID (XX-XXX-XXXX)	06-029-0016
Representative statistical	
area Name (i.e. MSA, CBSA,	Bakersfield
other)	
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	09/19/2000
Pollutant Parameters	PM2.5 FRM
Meteorological Parameters	None
Address	401 E. Planz Rd., Bakersfield CA 93307
GPS Coordinates (decimal degrees)	35.3246 N, -118.9976 W
Distance to road	500 m (west)
	17,987 / 2018 (Traffic count for nearest cross street): S. Union Ave between E. Planz Rd and E White Lane
Traffic Count/Year	Source: Kern Council of Governments)
	1,030 / 2018 (Traffic count for monitoring station's street address) Source: Kern Council of Governments)
Ground Cover	Paved

Bakersfield-Airport (Planz) (1)				
Pollutant	PM2.5			
Parameter code	88101			
Spatial scale	N			
Site type	PE, HC			
Basic monitoring objective(s)	NC, RS			
Monitor type	SLAMS			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None			
FRM/FEM/ARM/Other	FRM			
POC	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ			
Instrument manufacturer and model	R&P 2025			
Analysis method	Gravimetric			
Method code	145			
Monitoring start date (MM/DD/YYYY)	09/19/2000			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3			
Sampling season	01/01 – 12/31			
Probe Inlet height above ground (meters)	2.0 m			
Distance from supporting structure (meters)	None			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None			
Distance from trees (meters)	None			
Distance to furnace or incinerator flue (meters)	None			
Distance between collocated monitors (meters)	None			
Unrestricted airflow (degrees)	360			
Probe material (Teflon, etc.)	N/A			
Residence time (seconds)	N/A			
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A			

Pollutant	PM2.5
For high volume PM instrument (flow rate > 200 liters/minute), is any	
PM instrument within 2m of the hivol? If yes, please list distance	N/A
(meters) and instrument(s).	
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
Last Annual Performance Evaluation (gaseous)	N/A
Last two semi-annual flow rate audits for PM monitors	03/07/2018, 08/29/2018
Changes planned within the next 18 months (Y/N)	N

Site Name	Edison
AQS ID (XX-XXX-XXXX)	06-029-0007
Representative statistical area Name (i.e. MSA, CBSA,	Bakersfield
other)	
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	CARB
Site Start Date	01/01/1980
Pollutant Parameters	Ozone, NO <sub>2</sub>
Meteorological Parameters	Wind speed, wind direction, outside temperature, relative humidity
Address	Johnston Forms Shad Dd. Edison, CA 02220
	Johnston Farms-Shed Rd., Edison, CA 93320
GPS Coordinates (decimal degrees)	35.34561 N, -118.85183 W
Distance to road	450 m (south)
Traffic Count/Year	2,800/2018 (Traffic count for nearest roads: Edison Hwy. and Comanche Dr.,
Traffic County real	Source: Kern Council of Governments)
Ground Cover	Dirt, vegetative

Edison (1)				
Pollutant	Ozone	NO <sub>2</sub>	Meteorology	
Parameter code	44201	42602	61103, 61104, 62102, 62201, 62101	
Spatial scale	N	N	R	
Site type	HC, RT	PE	GB	
Monitoring objective	NC, RS, TP	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	Other	
Network affiliation	SLAMS	SLAMS	SLAMS	
FRM/FEM/ARM/Other	FEM	FRM	Other	
POC	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	Primary	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E	RM Young 81000, Vaisala HMP 155	
Analysis method	UV	CL	Sonic, Instrumental	
Method code	087	099	066, 059	
Monitoring start date (MM/DD/YYYY)	01/01/1981	01/01/1980	01/01/1995	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	5.4 m	5.4 m	10 m (OT 2.1 m)	
Distance from supporting structure (meters)	1.5 m	1.5 m	None	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from trees (meters)	16.1 m (11.0 m to dripline)	16.1 m (11.0 m to dripline)	18.5	
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	
Distance between collocated monitors (meters)	N/A	N/A	N/A	
Unrestricted airflow (degrees)	360	360	360	

Pollutant	Ozone	NO <sub>2</sub>	Meteorology
Probe material (Teflon, etc.)	Teflon	Teflon	N/A
Residence time (seconds)	11.9	14.6	N/A
For low volume PM instruments (flow rate < 200			
liters/minute), is any PM instrument within 1 m of the lovol?	N/A	N/A	N/A
If yes, please list distance (meters) and instrument(s).			
For high volume PM instrument (flow rate > 200			
liters/minute), is any PM instrument within 2m of the hivol?	N/A	N/A	N/A
If yes, please list distance (meters) and instrument(s).			
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A
audit	. 4,7 .	1.77.	, .
Frequency of flow rate verification for automated PM	N/A	N/A	N/A
analyzers audit	14/71	14/74	14/71
Frequency of one-point QC check (gaseous)	Daily	Daily	N/A
Last Annual Performance Evaluation (gaseous)	10/31/2018	12/04/18	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Arvin-Di Giorgio
AQS ID (XX-XXX-XXXX)	06-029-5002
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	CARB
Site Start Date	11/16/2009
Pollutant Parameters	Ozone
Meteorological Parameters	Outdoor temperature, wind speed, wind direction, sonic temperature, relative humidity
_	
Address	19405 Buena Vista Blvd, Arvin CA 93203
GPS Coordinates (decimal degrees)	35.2391 N, -118.7886 W
Distance to road	10 m (east)
Traffic Count/Year	712/2018 (Traffic count for Buena Vista Blvd east of Tejon Hwy., Source: Kern Council of Governments.)
Ground Cover	Dirt, vegetative

Arvin–Di Giorgio (1)				
Pollutant	Ozone	Meteorology		
Parameter code	44201	61104, 61103, 62101, 62102, 62201		
Spatial scale	N	R		
Site type	HC, PE	GB		
Monitor objective	NC, RS, TP	RS, TP		
Monitor type	SLAMS	SLAMS (WD, WS), Other (OT, RH)		
Network affiliation	PAMS (pending)	PAMS (pending)		
FRM/FEM/ARM/Other	FEM	Other		
POC	1	2		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400E	RM Young 81000, Vaisala HMP155		
Analysis method	UV	Sonic		
Method code	087	066, 059		
Monitoring start date (MM/DD/YYYY)	11/16/2009	11/16/2009, 9/2/2015 (Vaisala)		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	4.4 m	10 m		
Distance from supporting structure (meters)	1.8 m	N/A		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A		
Distance from trees (meters)	>10 m	18.5 m		
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 (Teflon, etc.)	TEFLON	Teflon		
Residence time (seconds)	14.56	N/A		
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A		

Pollutant	Ozone	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A
Last Annual Performance Evaluation (gaseous)	10/30/2018	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A
Changes planned within the next 18 months (Y/N)	Yes. Installation of Teledyne API T703U gas calibrator for precision checks in lieu of internal zero span (IZS) of 400E ozone analyzer	N

Site Name	Maricopa
AQS ID (XX-XXX-XXXX)	06-029-0008
Representative statistical area Name (i.e. MSA, CBSA,	Bakersfield
other)	Baltoronola
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	7/1/1987
Pollutant Parameters	Ozone
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	755 Stanislaus St., Maricopa, CA 93252
GPS Coordinates (decimal degrees)	35.0515 N, -119.4026 W
Distance to roadways (meters)	500 (northwest)
Traffic Count/Year	499/2018 (Traffic count for nearest roads: Union St. at California St., Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, dirt, vegetative

Maricopa (1)				
Pollutant	Ozone	Meteorology		
Parameter code	44201	Many		
Spatial scale	N	N		
Site type	HC, RT	GB		
Basic monitoring objective(s)	NC, RS, TP	RS, TP		
Monitor type	SLAMS	Other		
Network affiliation(s), if applicable (a monitor may have none, or multiple)	None	None		
FRM/FEM/ARM/Other	FEM	Other		
POC	1	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C		
Analysis method	UV	Many		
Method code	087	Many		
Monitoring start date (MM/DD/YYYY)	07/01/1987	07/01/1987		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	3.0 m	10 m		
Distance from supporting structure (meters)	1.0 m	N/A		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	3 m H 0.5 m V	N/A		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	17 m H 1 m V	N/A		
Distance from trees (meters)	18 m H 8 m V	20 m		
Distance to furnace or incinerator flue (meters)	N/A	N/A		
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A		
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	360		

Pollutant	Ozone	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.59	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	2/1/18	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Lebec
AQS ID (XX-XXX-XXXX)	06-029-2009
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	1/20/2009
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	1277 Beartrap Road, Lebec, CA 93243
GPS Coordinates (decimal degrees)	34.8415N, -118.8610W
Distance to roadways (meters)	300 m (west)
Traffic Count/Year	1,911/2017 (Traffic count for nearest roads: Lebec Rd near Interstate 5, Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, vegetative

Lebec		
Pollutant	PM2.5	Meteorology
Parameter code	88502	Many
Spatial scale	N	R
Site type	PE	GB
Basic monitoring objective(s)	TP	RS, TP
Monitor type	SPM	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None
FRM/FEM/ARM/Other	Non-FEM	Other
POC	3	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A
Instrument manufacturer and model	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C
Analysis method	Beta Attenuation	Many
Method code	731	Many
Monitoring start date (MM/DD/YYYY)	01/27/2009	OT, WS, WD - 12/09/2009; BP - 01/28/2010
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 – 12/31
Probe height (meters)	1.98 m	10 m
Distance from supporting structure (meters)	4.62 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A
Distance from trees (meters)	200 m	200 m
Distance to furnace or incinerator flue (meters)	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360

Pollutant	PM2.5	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	Monthly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	04/03/18, 12/5/18	N/A
Changes planned within the next 18 months (Y/N)	N	N

n Joaquin Valley Air Pollution Control District	<u>June 3, 2019</u>
APPENDIX C:	
San Joaquin Valley Air Pollution Control Distri Inspection Period on the 2019 Air Monitorin	
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an Joaquin Valley Air Pollution Control District	June 3, 2019
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## SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT NOTICE OF PUBLIC INSPECTION PERIOD ON THE DRAFT 2019 AIR MONITORING NETWORK PLAN

NOTICE IS HEREBY GIVEN that a 30-day public inspection period is being held on the San Joaquin Valley Air Pollution Control District's (District) Draft 2019 Air Monitoring Network Plan.

Interested persons may submit comments to:

Robert Gilles
San Joaquin Valley Unified Air Pollution Control District
1990 East Gettysburg Avenue
Fresno, CA 93726

Email: robert.gilles@valleyair.org

The public inspection period begins June 3, 2019 and will end July 3, 2019.

Copies of the Draft 2019 Air Monitoring Network Plan can be obtained by calling (559) 230-5800. You may download a copy of the Draft 2019 Air Monitoring Network Plan from the District's website on or after June 3, 2019 under the Other Notices portion of the Public Notices page:

http://www.valleyair.org/notices/public\_notices\_idx.htm#Other Notices

For additional information, contact Robert Gilles by phone at (559) 230-5800.