



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

2025 Air Monitoring Network Plan



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2025 Air Monitoring Network Plan

San Joaquin Valley Air Pollution Control District

May 28, 2025

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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) and the EPA AirNow system, 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 health-based 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 EPA AirNow 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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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 mediums such as the Real-time Air Advisory Network (RAAN), the District's Valley Air mobile app, AirNow.gov website and mobile app, 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 make decisions for its smoke management program which produces declarations for prescribed burning, hazard reduction burning, agricultural burning, and residential wood burning to ensure these activities do not result in adverse air quality and public health impacts.

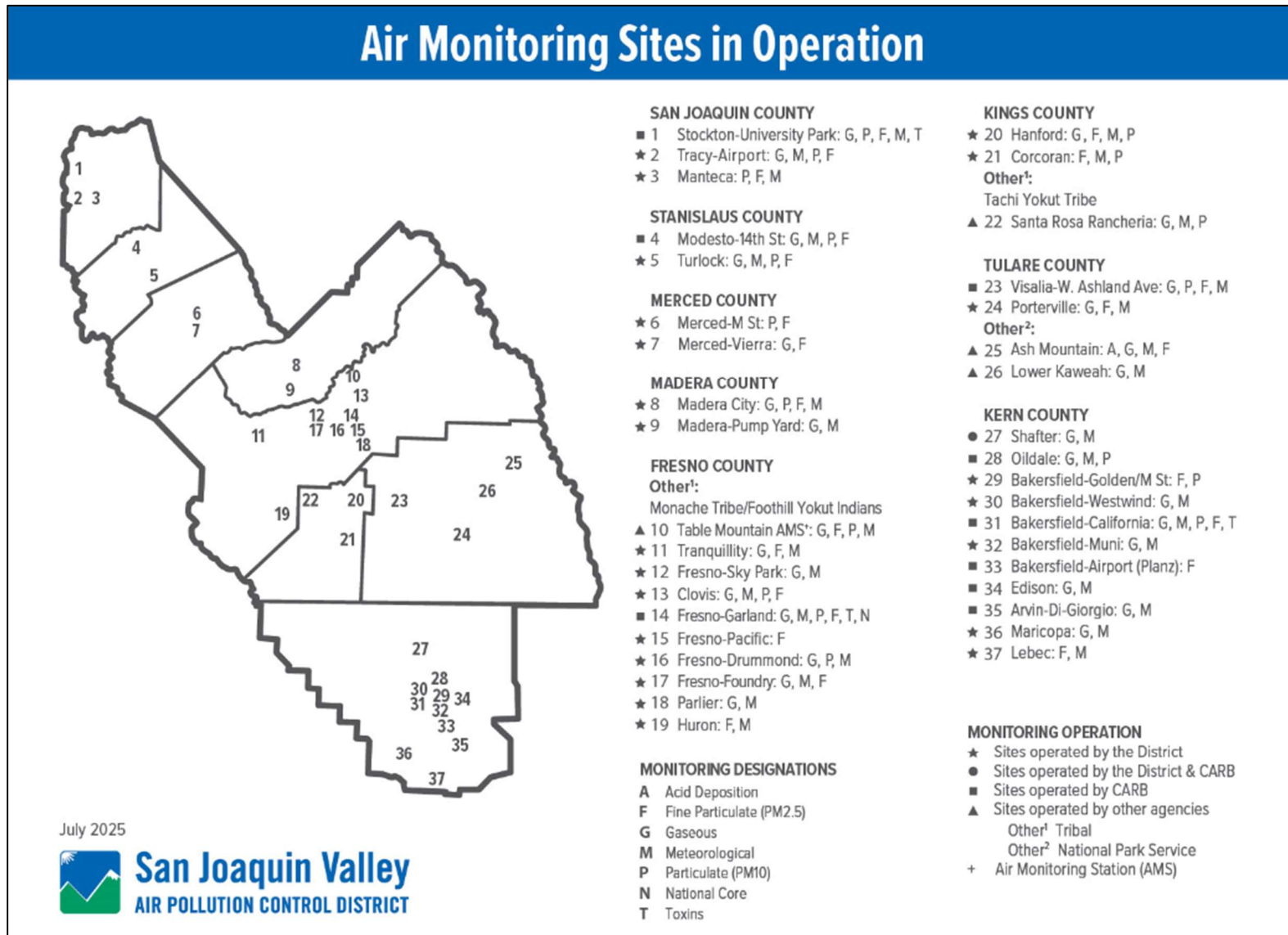
As part of the District's long-term efforts to improve public health, air monitors collect data that is rigorously analyzed by laboratory technicians and District staff. This monitoring data reflects the status of the Valley's air quality and is fundamental to efforts to improve air quality and achieve attainment of the United States 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 experiences some of the most challenging air quality issues in the nation. The Valley is home to over 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, EPA has found that the Valley has attained the 1997 24-hour PM_{2.5} NAAQS and the federal 1-hour ozone standard. The Valley is also designated as a maintenance area for the PM₁₀ NAAQS and has recently demonstrated attainment of the 1997 annual PM_{2.5} NAAQS and will be coordinating with CARB and EPA for the Valley to be redesignated as a maintenance area for the 1997 24-hour and annual PM_{2.5} NAAQS. The Valley is designated as a nonattainment area for the remaining federal PM_{2.5} standards including the 2006 24-hour NAAQS, and the 2012 annual NAAQS as well as the 1997, 2008 and 2015 federal 8-hour ozone (O₃) standards. No areas have yet been designated under the new 2024 annual PM_{2.5} NAAQS, as the U.S. EPA's designation process is still underway. To address the air quality needs of this expansive and diverse region, the air monitoring program is designed to meet federal requirements and provide needed information to the public.

The air monitoring network in the Valley includes air monitoring stations that are managed and operated by the District, CARB, and the National Park Service (NPS). Additionally, there are two tribal air monitoring stations operating in the Valley: the Tachi Yokut Tribe operates the Santa Rosa Rancheria air monitoring station located in Kings County, and the Monache Tribe and Foothill Yokut Indians operate the air monitoring station located at Table Mountain Rancheria in Fresno County. Since the tribal

monitors are operated under the Tribal Authority Rule and these areas 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 air monitoring sites in the Valley, including tribal sites, is provided in Figure 1.

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



AIR MONITORING NETWORK PLAN REQUIREMENTS

As specified in section 58.10 of title 40 of the Code of Federal Regulations (CFR), and as a requirement of the Clean Air Act (CAA) section 105 grant the District receives, the District updates the air monitoring network plan annually to report the current state of its air monitoring network and any planned changes to it that may be forthcoming. All monitors in the District's air monitoring network meet the requirements outlined in 40 CFR § 58.10 as well as Appendices A, B, C, D and E of part 58, where applicable. Additionally, this air monitoring network plan provides information on the establishment and maintenance of the various types of air monitoring stations, monitors, and networks currently operating in the District's air monitoring network (see Table 1). The District posts its annual air monitoring network plan for public comment for at least 30 days, and addresses pertinent comments received prior to submitting the plan, along with comments received and the District's responses, to the EPA Regional Administrator.

Table 1 – Types of Stations, Monitors, and Networks in the San Joaquin Valley

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	PM _{2.5} 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 meet 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 – *Included in Table 2*
 - MSA: Metropolitan statistical area
 - CBSA: Core-based statistical area
 - CSA: Combined statistical area
- Air Quality System (AQS) site identification number – *Included in Table 3.*
- Population estimate – *Included in Table 4*
- Location: Street address and geographical coordinates – *Included in Appendices A and B*
- Sampling and analysis methods for each measured parameter – *Included in Appendix B*
- Operating schedules for each monitor – *Included in Appendix B*
- Monitoring objective and spatial scale of representativeness for each monitor – *Included in 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 – *Included in Improvements and Planned Changes section of this document*

There are several network plan requirements that pertain specifically to PM_{2.5} monitoring:

- The air monitoring network plan must identify which sites are suitable and which are not suitable for comparison against the PM_{2.5} NAAQS as described in 40 CFR Section 58.30. Per 40 CFR part 58 Appendix D, section 4.7.1b, the required PM_{2.5} monitoring stations must be sited to represent area-wide air quality and will typically be at neighborhood or urban-scale. However, micro-or middle-scale are appropriate for PM_{2.5} monitoring sites that are located throughout a metropolitan area and considered representative of area-wide air quality.
- The plan must also document how the District provides for public review of changes to the PM_{2.5} monitoring network when the change impacts the location of a violating PM_{2.5} monitor, or the creation/change to a community monitoring zone.
- Any public comments received on PM_{2.5} monitoring changes must be included in the submittal of the air monitoring network plan to the EPA Regional Administrator.

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

MSA/CBSA: Stockton-Lodi		
County: San Joaquin		
Site Name	AQS ID	Operating Agency
Stockton-University Park	06-077-1003	CARB
Tracy-Airport	06-077-3005	SJVAPCD
Manteca	06-077-2010	SJVAPCD
MSA/CBSA: Modesto		
County: Stanislaus		
Site Name	AQS ID	Operating Agency
Modesto-14th St	06-099-0005	CARB
Turlock	06-099-0006	SJVAPCD
MSA/CBSA: Merced		
County: Merced		
Site Name	AQS ID	Operating Agency
Merced-M St	06-047-2510	SJVAPCD
Merced-Vierra	06-047-2024	SJVAPCD
MSA/CBSA: Madera		
County: Madera		
Site Name	AQS ID	Operating Agency
Madera-City	06-039-2010	SJVAPCD
Madera-Pump Yard	06-039-0004	SJVAPCD

Table 3 – Site Identification (continued)

MSA/CBSA: Fresno		
County: Fresno		
Site Name	AQS ID	Operating Agency
Tranquillity	06-019-2009	SJVAPCD
Fresno-Sky Park	06-019-0242	SJVAPCD
Clovis-Villa	06-019-5001	SJVAPCD
Fresno-Garland	06-019-0011	CARB
Fresno-Pacific	06-019-5025	SJVAPCD
Fresno-Drummond	06-019-0007	SJVAPCD
Fresno-Foundry	06-019-2016	SJVAPCD
Parlier	06-019-4001	SJVAPCD
Huron	06-019-2008	SJVAPCD
MSA/CBSA: Hanford-Corcoran		
County: Kings		
Site Name	AQS ID	Operating Agency
Hanford-Irwin	06-031-1004	SJVAPCD
Corcoran-Patterson	06-031-0004	SJVAPCD
MSA/CBSA: Visalia-Porterville		
County: Tulare		
Site Name	AQS ID	Operating Agency
Visalia-W. Ashland Avenue	06-107-2003	CARB
Porterville	06-107-2010	SJVAPCD
Sequoia-Ash Mountain	06-107-0009	NPS
Sequoia-Lower Kaweah	06-107-0006	NPS
MSA/CBSA: Bakersfield		
County: Kern (Valley Portion)		
Site Name	AQS ID	Operating Agency
Shafter	06-029-6001	CARB and SJVAPCD
Oildale	06-029-0232	CARB
Bakersfield-Golden / M St	06-029-0010	SJVAPCD
Bakersfield-Westwind	06-029-2019	SJVAPCD
Bakersfield-California	06-029-0014	CARB
Bakersfield-Muni	06-029-2012	SJVAPCD
Bakersfield-Airport (Planz)	06-029-0016	CARB
Edison	06-029-0007	CARB
Arvin-Di Giorgio	06-029-5002	CARB
Maricopa	06-029-0008	SJVAPCD
Lebec	06-029-2009	SJVAPCD

Table 4 – San Joaquin Valley 2024 Population

County		Total County Population*	Major Urban Area Pop > 100,000	Urban Area Pop < 100,000 and > 50,000
San Joaquin		791,408	Stockton	Lodi, Manteca, Tracy
Stanislaus		548,744	Modesto	Turlock
Merced		287,303	—	Merced
Madera		159,328	—	Madera
Fresno		1,017,431	Fresno, Clovis	—
Kings		152,627	—	Hanford
Tulare		478,918	Visalia	Porterville, Tulare
Kern	Valley Portion**	773,755	Bakersfield	Delano
	Entire County	910,300		
San Joaquin Valley Total***		4,209,514		

* Data from California Department of Finance E-1 Population Estimates for Cities, Counties and the State, January 1, 2024, Released May 1, 2024.

** 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" population includes the "Kern (Valley Portion)" population only.

Monitoring Objectives, Site Types, and Spatial Scales

Three **basic monitoring objectives** that define the purpose of an 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 are specific to peak and typical pollution levels in populated areas, air pollution transported to and from a city or region, and pollution levels near specific sources. 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**.

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 location 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 up to several city blocks in sized ranging between about 100 meters to 0.5 kilometers.
- **Neighborhood scale**: An extended area of the city that has relatively uniform land use with dimensions ranging 0.5 to 4.0 kilometers.
- **Urban scale**: 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 pollutant parameters measured at each air monitoring site in the San Joaquin Valley.

Meteorology

A variety of meteorological parameters are measured for various District programs and efforts that are affected by weather. Such activities include air quality forecasting, Photochemical Assessment Monitoring Stations (PAMS), exceptional events, long-term planning, and pollutant trend assessment. Meteorological data also help increase public awareness of air quality and inform strategies 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 2024. Additionally, known or anticipated changes to the network that may be initiated through December 2026 are described in the *Improvements and Planned Changes* section later in this document.

Table 5 – Pollutant Parameters Monitored in the San Joaquin Valley

Site Name	Ozone	PM2.5	PM10	PM10-2.5	NO2	CO	SO2	NMH	Speciated VOC	NOy	PM2.5 Speciation	Toxics
Stockton-University Park	✓	✓	✓		✓	✓						✓
Tracy-Airport	✓	✓	✓		✓							
Manteca		✓	✓									
Modesto-14th St	✓	✓	✓			✓					✓	
Turlock	✓	✓	✓		✓							
Merced-M St		✓	✓									
Merced-Vierra	✓	✓										
Madera-City	✓	✓	✓									
Madera-Pump Yard	✓				✓			✓	✓			
Tranquillity	✓	✓										
Fresno-Sky Park	✓				✓							
Clovis-Villa	✓	✓	✓		✓	✓		✓	✓			
Fresno-Garland	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Fresno-Pacific		✓										
Fresno-Drummond	✓		✓		✓							
Fresno-Foundry		✓			✓	✓						
Parlier	✓				✓			✓	✓			
Huron		✓										
Hanford-Irwin	✓	✓	✓		✓							
Corcoran-Patterson		✓	✓									
Visalia-W. Ashland Avenue	✓	✓	✓		✓						✓	
Porterville	✓	✓										
Sequoia-Ash Mountain	✓	✓										
Sequoia-Lower Kaweah	✓											
Shafter	✓				✓			✓	✓			
Oildale	✓		✓									
Bakersfield-Golden / M St		✓	✓									
Bakersfield-Westwind					✓							
Bakersfield-California	✓	✓	✓		✓						✓	✓
Bakersfield-Muni	✓				✓	✓		✓	✓			
Bakersfield-Airport (Planz)		✓										
Edison	✓				✓							
Arvin-Di Giorgio	✓											
Maricopa	✓											
Lebec		✓										

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-University Park	✓	✓	✓	✓		
Tracy-Airport	✓	✓	✓		✓	
Manteca	✓	✓	✓		✓	
Modesto-14th St	✓	✓	✓	✓		
Turlock	✓	✓	✓		✓	
Merced-M St	✓	✓	✓			
Madera-City	✓	✓	✓	✓	✓	✓
Madera-Pump Yard	✓	✓	✓	✓	✓	✓
Tranquillity	✓	✓	✓		✓	
Fresno-Sky Park	✓	✓	✓			
Clovis-Villa	✓	✓	✓	✓	✓	✓
Fresno-Garland	✓	✓	✓	✓	✓	
Fresno-Pacific	✓	✓	✓			
Fresno-Drummond	✓	✓	✓		✓	
Fresno-Foundry	✓	✓	✓		✓	
Parlier	✓	✓	✓	✓	✓	✓
Huron					✓	
Hanford-Irwin	✓	✓	✓		✓	
Corcoran-Patterson	✓	✓	✓			
Visalia-W. Ashland Avenue	✓	✓	✓	✓		
Porterville	✓	✓	✓	✓		
Sequoia-Ash Mountain	✓	✓	✓	✓		✓
Sequoia-Lower Kaweah	✓	✓	✓	✓		✓
Shafter	✓	✓	✓	✓	✓	✓
Oildale	✓	✓	✓	✓		
Bakersfield-Golden / M St	✓	✓	✓			
Bakersfield-Westwind	✓	✓	✓		✓	
Bakersfield-California	✓	✓	✓	✓		
Bakersfield-Muni	✓	✓	✓	✓	✓	✓
Edison	✓	✓	✓	✓		
Arvin-Di Giorgio	✓	✓	✓	✓		
Maricopa	✓	✓	✓		✓	
Lebec	✓	✓	✓			

POLLUTANT MONITORING REQUIREMENTS

Ozone

In 2015, EPA revised the 8-hour average ozone NAAQS by lowering it to 0.070 parts per million (ppm), or 70 parts per billion (ppb). Ozone is formed when its precursors, oxides of nitrogen (NOx) and volatile organic compounds (VOC), chemically react in the presence of heat and sunlight. The Valley's topography, high temperatures, subsidence inversions, and light winds make the area conducive to the formation of elevated ozone levels. Furthermore, winds at ground level or at higher altitudes transport pollutants from other air basins into the Valley, from upwind toward downwind areas within the Valley, 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 as summarized in Table 7. 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 monitors 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 Real-time Air Advisory Network (RAAN) as well as EPA's AirNow.gov website and mobile app to inform the public of hourly ozone values in near real-time. As such, these monitors are comparable to the ozone NAAQS and also meet the "Timely/Public" monitor objective.

Table 7 – SLAMS Minimum Ozone Monitoring Requirements

MSA population, based on latest available census figures	Number of monitors required if:	
	Most recent 3-year design value concentrations \geq 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

* 2015 8-hour ozone NAAQS (70 ppb) is the most stringent for comparison. 85% of 70 ppb is 60 ppb.

Table 8 – Ozone Monitoring Requirements for the Valley

County	2024 Population	Exceptional Event Impacts Included*		Exceptional Event Impacts Removed*		Number of SLAMS required	SLAMS in MSA
		Max 2024 8-hour Ozone Design Value	≥85% of any Ozone NAAQS	Max 2024 8-hour Ozone Design Value	≥85% of any ozone NAAQS		
Stockton-Lodi MSA							
San Joaquin	791,408	65	Yes	64	Yes	2	2
Modesto MSA							
Stanislaus	548,744	79	Yes	72	Yes	2	2
Merced MSA							
Merced	287,303	76	Yes	72	Yes	1	1
Madera MSA							
Madera	159,328	78	Yes	72	Yes	1	2
Fresno MSA							
Fresno	1,017,431	83	Yes	77	Yes	2	6
Hanford-Corcoran MSA							
Kings	152,627	79	Yes	75	Yes	1	1
Visalia-Porterville MSA							
Tulare	478,918	89	Yes	82	Yes	2	2
Bakersfield MSA							
Kern**	773,755	88	Yes	83	Yes	2	7

* Values shown for each area both including and excluding air quality data that was impacted by wildfire exceptional events.

** Bakersfield MSA population represents only the population within the San Joaquin Valley Air Basin portion of Kern County, based on census tract data. The number of SLAMS required does not change when comparing to the entire Kern County population (see Table 4).

Photochemical Assessment Monitoring Stations

The monitoring objective of Photochemical Assessment Monitoring Stations (PAMS) is “research support”. Clean Air Act Section 182 and 40 CFR 58 requires serious, severe, and extreme ozone nonattainment areas to have PAMS sites measure speciated ozone precursors in order to better understand the effect of precursors and photochemistry as well as control strategies on ozone formation. PAMS sites measure ozone, carbon monoxide (CO), nitrogen oxide (NO), nitrogen dioxide (NO₂), oxides of nitrogen (NO_x), and non-methane hydrocarbon (NMH) as well as meteorology. PAMS is only required in the San Joaquin Valley in the Fresno MSA as it is the only area to exceed the 1,000,000 population threshold. CARB has begun to implement PAMS in the Fresno MSA at the Fresno-Garland NCore site and PAMS measurements are expected to be active in June 2025.

Due to the ozone nonattainment status in the Valley and to enhance research objectives, the District will continue to operate six PAMS enhanced ozone monitoring sites to support the needs for increased understanding of ozone formation in the Fresno and Bakersfield MSAs. There are four classifications of PAMS enhanced ozone monitoring sites in the San Joaquin Valley:

- 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 not required for the San Joaquin Valley and there are no Type 4 sites in the District's PAMS enhanced ozone monitoring networks.

As shown in Table 9, the District's PAMS enhanced ozone monitoring network has a total of six PAMS sites configured as two networks, one for the Fresno MSA and one for the Bakersfield MSA. CARB has recently completed the process of building a permanent shelter at the Arvin-Di Giorgio location and CARB and the District will review resuming Type 3 PAMS monitoring at the site.

Each year, the District's PAMS enhanced ozone monitoring program operates from June 1 through August 31 on a 1-in-3 day sampling schedule. At least four, 3-hour integrated samples are collected each sampling day, which is referred to as a "Trend Day". Additional samples are collected on "Episode Days", which are days that are forecast to have high ozone concentrations. The goal is to sample on three to five multi-day episodes in an ozone season. Other PAMS equipment (e.g., ozone, NO₂, and non-methane hydrocarbon analyzers) operate on an hourly basis year round.

Table 9 – San Joaquin Valley PAMS Enhanced Ozone Monitoring Networks

MSA	Site	Site Type
Fresno	Madera-Pump Yard	Type 1: Upwind/Background site
	Clovis-Villa	Type 2: Maximum precursor emissions
	Parlier	Type 3: Maximum ozone concentrations
Bakersfield	Shafter	Type 1: Upwind/Background site
	Bakersfield-Muni	Type 2: Maximum precursor emissions
	Arvin-Di Giorgio*	Type 3: Maximum ozone concentrations

*PAMS equipment may be installed for the Type 3 site at the Arvin-Di Giorgio pending coordination between CARB and the District.

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). The purpose of the EMP is to explain how continued measurements of ozone and ozone precursors will assist in understanding the formation of ozone in the area. CARB is responsible for submitting the EMP for the state of California. According to CARB, EPA has made it clear that only an EMP submitted by CARB will satisfy the requirement. The District will include CARB's Enhanced Monitoring Plan as an appendix to this document if a final version becomes available prior to the District submitting its 2025 Annual Network Plan to EPA.

Nitrogen Dioxide

On April 6, 2018 EPA issued the decision to retain the existing NAAQS for NO₂. As stated in 40 CFR Part 50, the annual average NO₂ standard is 53 ppb, and the 1-hour NO₂ standard is 100 ppb. Within the NO₂ network, one microscale, near-road NO₂ monitoring station is required in CBSAs with populations of 1,000,000 or more in order to meet the NAAQS. Thus, a Three-Tier Network design for representing NO₂ concentrations near freeways, urban areas, and locations aimed at protecting susceptible and vulnerable communities is outlined in 40 CFR Part 58. The Three-Tier Network design is comprised of:

(1) Near-road NO₂ Monitoring Requirement

Per Section 4 of Appendix D in 40 CFR part 58, one microscale, near-road NO₂ 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 PM_{2.5} monitor and one CO monitor be collocated at a near-road NO₂ site.

In order to meet this requirement, the District proactively established two near-road NO₂ monitoring stations in the air monitoring network. One of the two near-road stations is located in the Fresno CBSA and became operational in January 2016. When the Fresno CBSA population reached 1,000,000 in 2019, the District installed a CO analyzer and a PM_{2.5} analyzer to meet EPA requirements for near-road air monitoring. Both analyzers became operational in December 2019.

The District's other near-road NO₂ monitoring station is located in the Bakersfield CBSA. The Bakersfield near-road air monitoring station became operational in January 2019. When the area's population reaches 1,000,000, the District will install CO and PM_{2.5} analyzers to meet EPA requirements.

(2) Area-wide NO₂ Monitoring Requirement

Although the Valley does not exceed federal or state standards for NO₂, NO_x reductions contribute to air quality improvement for both ozone and particulate matter

(PM). The District and CARB 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 operates 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.

(3) Regional Administrator Required Monitoring

In addition to the minimum NO₂ monitoring requirements, at least 40 additional NO₂ monitors must be placed across the nation as determined and required by the Regional Administrators in collaboration with States. The primary focus is to place the additional NO₂ monitors in locations to protect susceptible and vulnerable populations. The Regional Administrators may require monitor placement in locations inside or outside of CBSAs where:

- Existing near-road NO₂ monitoring are representative of areas where NO₂ concentrations may be nearing or exceeding the NAAQS
- NO₂ monitoring is not required but NO₂ concentrations may be nearing or exceeding the NAAQS
- Area-wide NO₂ monitoring objectives are not being met due to insufficiency of the minimum monitoring requirements for area-wide NO₂ monitors

Currently, the Parlier site in the Fresno CBSA, and the Bakersfield-Muni site in the Bakersfield CBSA are the sites within the District's network that are designated to meet this requirement, specifically the requirement for area-wide monitoring in areas where concentrations are not exceeding or near the NAAQS and minimum monitoring requirements are not sufficient to meet area-wide objectives. These sites are located in towns with susceptible and vulnerable populations downwind from urban areas.

Carbon Monoxide

On August 12, 2011 the EPA issued the decision to retain the existing NAAQS for CO. The primary standards are 9 ppm over an 8-hour average, and 35 ppm measured over a 1-hour average. 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.
- CO must be monitored at PAMS Type 2 sites with a trace-level CO monitor.
- One CO monitor is required to operate collocated with one near-road NO₂ monitor in a CBSA with population of 1,000,000 or more.
- EPA Regional Administrators have authority to require additional monitoring in case-by-case circumstances, such as areas impacted by major stationary CO

sources, in urban downtown areas, in urban street canyons, or in areas adversely impacted by meteorological and/or topographical influences.

The District and CARB continue CO monitoring to meet the requirement at the PAMS Type 2 sites (Clovis-Villa and Bakersfield-Muni), and the NCore site (Fresno-Garland) and to supplement related meteorological and criteria pollutant data. Additionally, the District monitors CO at the Fresno-Foundry near-road site since Fresno is the only CBSA within the District with a population greater than 1,000,000 people.

Sulfur Dioxide

On February 25, 2019 the EPA announced its decision to retain the NAAQS for sulfur oxides (SO_x). The NAAQS had been revised in 2010, strengthening the health-based standard significantly. The standard remains at 75 ppb, measured as the annual 99th percentile of daily maximum 1-hour SO₂ concentrations averaged over three years. The previous 24-hour and annual primary standards remain revoked.

The monitoring requirements for SO₂ are outlined in 40 CFR Part 58 Appendix D Section 4.4. Under the 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 by the total amount of SO₂ emitted within a CBSA in tons per year, and the resulting product is then divided by one million to produce the PWEI value.

Per 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 monitor is required in CBSAs with a PWEI value equal to or greater than 5,000, but less than 100,000. The PWEI values for each Valley county are shown in Table 10.

Table 10 – San Joaquin Valley SO₂ PWEI Values for 2024

County	County 2024 Population	SO ₂ Tons per Year*	PWEI
San Joaquin	791,408	344	272
Stanislaus	548,744	2,069	1,135
Merced	287,303	200	57
Madera	159,328	3,075	490
Fresno	1,017,431	2,689	2,736
Kings	152,627	83	13
Tulare	478,918	2,902	1,390
Kern (whole county)**	910,300	985	897

* Source: EPA National Emissions Inventory (2020 National Emissions Inventory: March 2023 Updated Release) <https://www.epa.gov/air-emissions-inventories/2020-nei-supporting-data-and-summaries>

** The National Emissions Inventory contains emissions data at the county level; therefore, the entire Kern County population was used for the PWEI and represents a higher, more conservative PWEI value.

The highest PWEI value is 2,720 for Fresno County, which is far below the minimum PWEI value of 5,000 that would require one monitor. As a result, there are no SO₂ monitors required for any CBSA in the District. Regardless, there is one SO₂ monitor operating within the District's network at the Fresno-Garland site, which meets requirements for the NCore network.

Reactive Nitrogen Compounds (NO_y)

Reactive Nitrogen Compounds (NO_y) are among the precursors to ozone and PM_{2.5}, and measuring NO_y is important for understanding ozone photochemistry. Additionally, NO/NO_y measurements also produce conservative estimates of NO₂ and can help with tracking continued compliance with the NO₂ NAAQS. As part of the National Ambient Air Monitoring Strategy (NAAMS), EPA requires NO_y monitoring at 75 locations across the United States in support of a number of objectives. As such, NO_y monitoring is conducted at NCore sites and in the PAMS program. NO_y is currently monitored at the NCore site at Fresno-Garland within the District's network to meet this requirement.

Toxics

Ambient toxics measurements are collected at Stockton-University Park, 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 gaseous pollutants monitoring network in the Valley are shown in Table 11, Table 12, Table 23 through Table 28, and Appendix B.

Table 11 – Gaseous Monitoring Methods

Site Name	FRM/FEM/Other				
	Ozone	NO2	CO	NMH	Speciated VOC
Stockton-University Park	FEM	FRM	FEM		
Tracy-Airport	FEM	FEM			
Modesto-14th St	FEM		FEM		
Turlock	FEM	FEM			
Merced-Vierra	FEM				
Madera-City	FRM				
Madera-Pump Yard	FRM	FEM		Other	Other
Tranquillity	FEM				
Fresno-Sky Park	FRM	FEM			
Clovis-Villa	FRM	FEM	FEM	Other	Other
Fresno-Drummond	FRM	FEM			
Fresno-Foundry		FEM	FEM		
Parlier	FRM	FEM		Other	Other
Hanford-Irwin	FRM	FEM			
Visalia-W. Ashland Avenue	FEM	FRM			
Porterville	FRM				
Shafter	FEM	FRM		Other	Other
Oildale	FEM				
Bakersfield-Westwind		FEM			
Bakersfield-California	FEM	FRM			
Bakersfield-Muni	FRM	FEM	FEM	Other	Other
Edison	FEM	FRM			
Arvin-Di Giorgio	FEM				
Maricopa	FEM				

Monitoring method information for the Fresno-Garland NCore site is provided in Table 23.

Table 12 – Gaseous Monitoring Station Type

Site Name	Monitor Type		
	Ozone	NO2	CO
Stockton-University Park	SLAMS	SLAMS	SLAMS
Tracy-Airport	SLAMS	SLAMS	
Modesto-14th St	SLAMS		SLAMS
Turlock	SLAMS	SLAMS	
Merced-Vierra	SLAMS		
Madera-City	SLAMS		
Madera-Pump Yard	SLAMS	SLAMS	
Tranquillity	SLAMS		
Fresno-Sky Park	SLAMS	SLAMS	
Clovis-Villa	SLAMS	SLAMS	SLAMS
Fresno-Drummond	SLAMS	SLAMS	
Fresno-Foundry		SLAMS	SLAMS
Parlier	SLAMS	SLAMS	
Hanford-Irwin	SLAMS	SLAMS	
Visalia-W. Ashland Avenue	SLAMS	SLAMS	
Porterville	SLAMS		
Shafter	SLAMS	SLAMS	
Oildale	SLAMS		
Bakersfield-Westwind		SLAMS	
Bakersfield-California	SLAMS	SLAMS	
Bakersfield-Muni	SLAMS	SLAMS	SLAMS
Edison	SLAMS	SLAMS	
Arvin-Di Giorgio	SLAMS		
Maricopa	SLAMS		

Monitor type information for the Fresno-Garland NCore site is provided in Table 23.

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 chemical 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 (PM_{2.5}).

To better understand the influence of meteorology, natural events, and sources of emissions on the Valley's PM_{2.5} concentrations, the District relies on research studies such as 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. Researchers used data from over 70 special purpose monitor (SPM) PM₁₀ sites and 50 SPM PM_{2.5} sites 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) manual filter-based monitors, federal equivalent method (FEM) monitors, and non-FEM monitors. PM FRM monitors collect air samples on either a daily, one-in-three day, or one-in-twelve day sampling schedule. FRM monitors meet the "NAAQS Comparison" objective and the FRM filters can also be analyzed for PM speciation, which helps meet the "Research Support" objectives.

FEM monitors are often real-time monitors that have been designated by EPA as being equivalent to FRM monitors. FEMs meet the "NAAQS Comparison" objective and can also satisfy the "Research Support" objective. Beta Attenuation Monitors (BAM) are continuous, near real-time monitors that provide the hourly PM_{2.5} and PM₁₀ data used in air quality forecasting, AQI reporting, and smoke management decisions for open agricultural burning, hazard reduction burning, prescribed burning, and residential wood burning. A BAM can be designated as an FEM or as non-FEM. The hourly PM_{2.5} data is also used in the District's Real-time Air Advisory Network (RAAN) as well as EPA's AirNow.gov website and mobile app. As such, these monitors help meet the "Timely/Public" objective.

Not all real-time monitors meet the "NAAQS Comparison" objective, as only those that meet the rigorous engineering design, quality assurance, and quality control standards are considered suitable for comparison to the NAAQS. Monitors not meeting these requirements are designated as non-FEM. The District operates four PM_{2.5} monitors as non-FEM SPM sites. These analyzers do not meet all of the certification

requirements to be comparable to the PM_{2.5} NAAQS. Specifically, EPA requires a runtime of 42 minutes per hour with an eight-minute count, while the non-FEM monitors operate with a runtime of 50 minutes per hour with a four-minute count. Additionally, these instruments use a sharp cut cyclone (SCC) PM_{2.5} inlet instead of a very sharp cut cyclone (VSCC) PM_{2.5} inlet used for FEM monitors. Finally, some of these monitors do not support the approved software to operate in a manner comparable to the NAAQS. While these monitors are non-FEMs, they produce valuable data that is of sufficient quality for reporting the AQI and other intended purposes. All other required PM_{2.5} analyzers in the District's network are operated in compliance with 40 CFR part 58 Appendix A and Appendix E and are comparable to the PM_{2.5} NAAQS.

The four non-FEM PM_{2.5} monitors operating 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 site), as a settlement to a lawsuit (Tracy-Airport site), and for the purposes of helping the District's RAAN and forecasting programs (Porterville and Lebec sites), as well as reporting to the EPA AirNow system. All of these sites and/or equipment are not required for NAAQS purposes.

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 type, spatial scale, site type, basic monitoring objectives, sampling frequency, and other requirements being met by the District's PM network are shown in Table 19 through Table 29, and in Appendix B.

PM Collocation Requirements

Per 40 CFR 58, Appendix A, Sections 3.2.3 and 3.3.4, particulate matter collocation requirements are met at the Primary Quality Assurance Organization (PQAO) level. CARB is the PQAO for the District, and as such, CARB's Air Monitoring Network Plan¹ contains the details on how collocation requirements are met within the CARB PQAO. Table 21 shows the collocated PM monitors currently operating in the District's monitoring network.

Public Review of Changes to the PM_{2.5} Monitoring Network

Public input is required whenever the District proposes to move an existing violating PM_{2.5} monitor (40 CFR 58.10(c)). The District uses the annual Air Monitoring Network Plan (this document) to notify and seek public comment on any planned changes to the existing PM_{2.5} network. The Plan is 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

¹ CARB Annual Monitoring Network Report, Annual Network Plan, <https://ww2.arb.ca.gov/our-work/programs/ambient-air-monitoring-regulatory/annual-monitoring-network-report>

unanticipated changes to the PM_{2.5} network at violating sites 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 designated as a maintenance area for PM₁₀, and the District's 2007 PM₁₀ Maintenance Plan and ongoing PM₁₀ monitoring ensure continued compliance with the federal 24-hour PM₁₀ standard (150 µg/m³). 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.

As part of the 2024 PM_{2.5} NAAQS update, EPA modified PM₁₀ monitoring requirements to a site specific, combined site data record. A combined site data record requires one monitor to be designated as a "Primary Monitor". A "Primary Monitor", according to 40 CFR Part 58.1, is "the monitor identified by the monitoring organization that provides concentration data used for comparison to the NAAQS." District primary monitor designations for PM₁₀ sites are reflected in Appendix B.

Table 13 below summarizes the requirements from Table D-4 of Appendix D to part 58 which specifies that the minimum number of PM₁₀ monitoring stations required per MSA is based on population and the maximum observed 24-hour PM₁₀ concentration. During 2024, the Valley was impacted by high wind events that caused increases in PM concentrations that led to exceedances of the PM₁₀ NAAQS. Table 14 and Table 15 show the highest measured 24-hour PM₁₀ concentrations in each MSA by site, both with and without data that was impacted by potential exceptional events. The District will continue to revisit the number of SLAMS (Table 14) and the sampling frequency (Table 28) in each MSA each year as a part of the annual Air Monitoring Network Plan.

Table 13 – PM₁₀ Minimum Monitoring Requirements (# of Stations per MSA)

Population category	High concentration > 180 µg/m ³	Medium concentration ≥ 120 µg/m ³	Low concentration < 120 µg/m ³
>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	1-2	0-1	0

Table 14 – PM10 Monitoring Requirements for the Valley

County	2024 Population	Event Impacts Included*		Event Impacts Removed*		Number of SLAMS in MSA
		2022-2024 Max 24-hour Concentration**	Number of SLAMS required	2022-2024 Max 24-hour Concentration**	Number of SLAMS required	
Stockton-Lodi MSA						
San Joaquin	791,408	190	4-8	100	1-2	3
Modesto MSA						
Stanislaus	548,744	180	4-8	110	1-2	2
Merced MSA						
Merced	287,303	110	0-1	110	0-1	1
Madera MSA						
Madera	159,328	150	0-1	110	0	1
Fresno MSA						
Fresno	1,017,431	180	4-8	180	4-8	3
Hanford-Corcoran MSA						
Kings	152,627	250	1-2	170	0-1	2
Visalia-Porterville MSA						
Tulare	478,918	170	1-2	110	0-1	1
Bakersfield MSA						
Kern***	773,755	270	4-8	130	2-4	3

* Values shown for each area both including and excluding air quality data that was impacted by potential exceptional events.

** Values are rounded to the nearest 10 $\mu\text{g}/\text{m}^3$ following conventions for comparison of PM10 values to the NAAQS from 40 CFR Part 50, Appendix K

*** Bakersfield MSA population represents only the population within the San Joaquin Valley Air Basin portion of Kern County, based on census tract data. The number of SLAMS required does not change when comparing to the entire Kern County population (see Table 4).

Table 15 – Highest 24-Hour PM10 Concentrations (by Site)

Site Name	2022-2024 Highest Concentration*	
	Exceptional Event Impacts Included**	Exceptional Event Impacts Removed**
Stockton-Lodi MSA		
Stockton-University Park	80	80
Tracy-Airport	80	80
Manteca	190	100
Modesto MSA		
Modesto-14th St	100	100
Turlock	180	110
Merced MSA		
Merced-M St	110	110
Madera MSA		
Madera-City	150	110
Fresno MSA		
Clovis-Villa	130	120
Fresno-Garland	130	130
Fresno-Drummond	180	180
Hanford-Corcoran MSA		
Hanford-Irwin	250	140
Corcoran-Patterson	220	170
Visalia-Porterville MSA		
Visalia-W. Ashland Ave	170	110
Bakersfield MSA		
Oildale	270	120
Bakersfield-Golden/M St	240	130
Bakersfield-California	180	110

* Values are rounded to the nearest 10 $\mu\text{g}/\text{m}^3$ following conventions for comparison of PM10 values to the NAAQS from 40 CFR Part 50, Appendix K

** Values shown for each MSA both including and excluding air quality data that was impacted by potential exceptional events.

PM2.5 Monitoring Requirements

EPA has found that the Valley has attained the 1997 24-hour PM2.5 NAAQS ($65 \mu\text{g}/\text{m}^3$) while Valley 2024 Design Values show the Valley has also attained the 1997 annual PM2.5 NAAQS ($15 \mu\text{g}/\text{m}^3$). The Valley is designated as a nonattainment area for the remaining federal PM2.5 standards including the 2006 24-hour NAAQS ($35 \mu\text{g}/\text{m}^3$), and the 2012 annual NAAQS ($12 \mu\text{g}/\text{m}^3$). On February 6, 2024, EPA revised the primary annual PM2.5 standard, strengthening it from 12.0 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $9.0 \mu\text{g}/\text{m}^3$. The CAA requires the EPA to complete the initial area designations process within 2 years of promulgation of a new or revised NAAQS (that is, February 6, 2026).

Per requirements in section 4.7.1 of Appendix D to part 58, the minimum number of PM2.5 sites required in an MSA is based on MSA population and observed PM2.5 concentrations. The requirements from Table D-5 in section 4.7.1 of appendix D to part 58 are shown below in Table 16. Section 4.7.2 of appendix D to part 58 requires that continuous PM2.5 monitors be at least one-half the minimum required monitors. Table 17 shows that the District's PM2.5 monitoring network meets or exceeds the minimum

PM2.5 network requirements and continuous PM2.5 monitoring requirements for the San Joaquin Valley. Additionally, the 2022-2024 24-hour and annual PM2.5 design values for each site in the District's PM2.5 network are provided in Table 18 below.

Table 16 – Minimum PM2.5 Network Requirements

MSA population	3-year design value % of the 24-Hour or Annual PM2.5 NAAQS*	
	≥85% NAAQS (24-Hour: ≥29.8 µg/m ³ Annual: ≥7.7 µg/m ³)	<85% NAAQS (24-Hour: <29.8 µg/m ³ Annual: <7.7 µg/m ³)
>1,000,000	3	2
500,000 - 1,000,000	2	1
50,000 - <500,000	1	0

* 24-hour PM2.5 NAAQS is 35 µg/m³. Annual PM2.5 NAAQS is 9 µg/m³.

Table 17 – PM2.5 Monitoring Requirements for the Valley

County	2024 Population	Max 2024 24-hr DV	Max 2024 Annual DV	SLAMS required	SLAMS in MSA	Number of Continuous PM2.5 Monitors*
Stockton-Lodi						
San Joaquin	791,408	34	10.3	2	2	3
Modesto						
Stanislaus	548,744	34	11.0	2	2	2
Merced						
Merced	287,303	30	9.3	1	2	2
Madera						
Madera	159,328	30	9.8	1	1	1
Fresno						
Fresno	1,017,431	42	13.6	3	5	6
Hanford-Corcoran						
Kings	152,627	39	12.8	1	2	2
Visalia- Porterville						
Tulare	478,918	38	13.2	1	1	3
Bakersfield						
Kern**	773,755	48	14.7	2	3	3

* Number of continuous monitors includes regulatory and non-regulatory monitors.

** Bakersfield MSA population represents only the population within the San Joaquin Valley Air Basin portion of Kern County, based on census tract data. The number of SLAMS required does not change when comparing to the entire Kern County population (see Table 4).

Table 18 – 24-Hour and Annual PM_{2.5} Maximum Design Values

Site Name	Exceptional Events Included*		Exceptional Events Excluded*		Exceptional Events Included*	
	2024 24-Hour DV	2024 Annual DV	2024 24-Hour DV	2024 Annual DV	Max Site in MSA	
					24-Hour	Annual
Stockton-Lodi MSA						
Stockton-University Park	34	10.3	34	10.1	✓	✓
Manteca	31	8.3	28	7.9		
Modesto MSA						
Modesto-14th St	34	11.0	34	10.6	✓	✓
Turlock	32	10.1	32	9.6		
Merced MSA						
Merced-M St	30	9.3	30	8.9	✓	✓
Merced-Vierra	28	8.4	28	8.1		
Madera MSA						
Madera-City	30	9.8	30	9.2	✓	✓
Fresno MSA						
Tranquillity	21	6.2	21	5.9		
Clovis-Villa	30	9.9	30	9.4		
Fresno-Garland	37	11.2	37	10.6		
Fresno-Pacific	42	12.9	42	12.4	✓	
Fresno-Foundry	38	13.6	38	12.9		✓
Hanford-Corcoran MSA						
Hanford-Irwin	39	12.8	39	12.2	✓	✓
Corcoran-Patterson	34	11.6	34	11.0		
Visalia-Porterville MSA						
Visalia-W. Ashland Ave	38	13.2	38	12.8	✓	✓
Bakersfield MSA						
Bakersfield-Golden/M St	48	14.4	48	13.7	✓	
Bakersfield-California	46	13.5	46	13.1		
Bakersfield-Airport (Planz)	44	14.7	44	14.3		✓

* Values shown for each MSA both including and excluding air quality data that was impacted by exceptional events. Values with exceptional event impacts removed are considered representative of ambient air quality conditions in the Valley.

In addition to setting the annual PM_{2.5} standard to 9.0 µg/m³, on February 6, 2024 the EPA finalized modifications to the PM_{2.5} network design criteria to include an EJ factor to address at-risk communities. While this modification to the PM_{2.5} network design requires new and replacement sites to be located in at-risk communities whose air quality is potentially affected by local sources of concern, such sites must still meet the requirement for being considered “area-wide” air quality.

Specifically, the requirement in Appendix D of 40 CFR Part 58 section 4.7.1(b)(3) provides that, for areas with additional required SLAMS, a monitoring station is to be sited in an at-risk community with poor air quality, particularly where there are anticipated effects from sources in the area. The District’s PM_{2.5} monitoring network meets minimum monitoring requirements, as shown in Table 17 above, and as such there are no areas with additional required SLAMS. The District will incorporate all EPA requirements, including the new EJ requirements, into any future changes to the

District's PM_{2.5} air monitoring network and any PM_{2.5} monitoring network changes will be reflected in future SJV air monitoring network plans.

Table 19 and Table 20 show the monitoring methods, monitor types, and collocated monitors operating in the District's PM monitoring network.

Table 19 – PM Monitoring Methods

Site Name*	FRM/FEM/Non-FEM/Other			Valid PM _{2.5} Design Value?		QA Collocated
	PM ₁₀ (cont.)	PM _{2.5} (man.)	PM _{2.5} (cont.)	24-Hour NAAQS	Annual NAAQS	PM _{2.5} (man.)
Stockton-University Park	FEM		FEM	Yes	Yes	
Tracy-Airport	FEM		Non-FEM	No	No	
Manteca	FEM		FEM	Yes	Yes	
Modesto-14th St	FEM		FEM	Yes	Yes	
Turlock	FEM		FEM	Yes	Yes	
Merced-M St	FEM		FEM	Yes	Yes	
Merced-Vierra			FEM	Yes	Yes	
Madera-City	FEM		FEM	Yes	Yes	
Tranquillity			FEM	Yes	Yes	
Clovis-Villa	FEM		FEM	Yes	Yes	
Fresno-Pacific			FEM	Yes	Yes	
Fresno-Drummond	FEM					
Fresno-Foundry			FEM	Yes	Yes	
Huron			Non-FEM	No	No	
Hanford-Irwin	FEM		FEM	Yes	Yes	
Corcoran-Patterson	FEM		FEM	Yes	Yes	
Visalia-W. Ashland Ave	FEM		FEM	Yes	Yes	
Porterville			Non-FEM	No	No	
Oildale	FEM					
Bakersfield-Golden / M St	FEM		FEM	Yes	Yes	
Bakersfield-California	FEM	FRM	Non-FEM	Yes	Yes	FRM
Bakersfield-Airport (Planz)		FRM		Yes	Yes	
Lebec			Non-FEM	No	No	

cont. – Continuous man. – Manual

* Monitoring method and monitor collocation information for the Fresno-Garland NCore site is provided in Table 23.

Table 20 – PM Monitoring Station Type

Site Name*	Monitor Type			QA Collocated
	PM2.5 (man.)	PM2.5 (cont.)	PM10 (cont.)	PM2.5 (man.)
Stockton-University Park		SLAMS	SLAMS	
Tracy-Airport		SPM	SLAMS	
Manteca		SLAMS	SLAMS	
Modesto-14th St		SLAMS	SLAMS	
Turlock		SLAMS	SLAMS	
Merced-M St		SLAMS	SLAMS	
Merced-Vierra		SLAMS		
Madera-City		SLAMS	SLAMS	
Tranquillity		SLAMS		
Clovis-Villa		SLAMS	SLAMS	
Fresno-Pacific		SLAMS		
Fresno-Drummond			SLAMS	
Fresno-Foundry		SLAMS		
Huron		SPM		
Hanford-Irwin		SLAMS	SLAMS	
Corcoran-Patterson		SLAMS	SLAMS	
Visalia-W. Ashland Ave		SLAMS	SLAMS	
Porterville		SPM		
Oildale			SLAMS	
Bakersfield-Golden / M St		SLAMS	SLAMS	
Bakersfield-California	SLAMS	OTHER	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 23.

Table 21 – QA Collocated PM2.5 Monitors

Site Name	Pollutant	Monitor Type	FRM/FEM /Other	Site Type	Spatial Scale	Basic Monitoring Objective	Sampling Frequency
Fresno-Garland	PM2.5 (man.)	SLAMS	FRM	PE	N	NC,RS	1:3
Bakersfield-California	PM2.5 (man.)	SLAMS	FRM	HC, PE	N	NC, RS	1:12

man. – Manual PE – Population Exposure HC – Highest Concentration N – Neighborhood
 RS – Research NC – NAAQS Comparison 1:3 = One sample per 3 days 1:12 = One sample per 12 days

PM2.5 Chemical Speciation Site Requirements

The PM2.5 Chemical Speciation Network (CSN) includes the Speciation Trends Network (STN) sites and supplemental sites. Per section 4.7.4 of appendix D of 40 CFR part 58, PM2.5 chemical speciation monitoring and analyses are required at sites designated to be part of the PM2.5 STN. The selection of and modifications to PM2.5 chemical speciation sites (including monitoring methods and sampling schedules) in the STN must be approved by the EPA Administrator. These sites monitor mass concentrations and constituents of PM2.5, including trace elements, ions (such as sulfate, nitrate, sodium, potassium, and ammonium), elemental carbon, and organic carbon.

CSN data are not used for attainment or nonattainment decisions, but are intended to complement the activities of the larger PM2.5 measurement network. Speciation data can be used to support a variety of efforts including:

- Assessing trends;
- Developing State Implementation Plans (SIPs);
- The development of emission control strategies and tracking progress of control programs;
- Aiding the interpretation of health studies by linking health effects to PM2.5 constituents; and
- Characterizing annual and seasonal spatial variation of aerosols.

Under the Clean Air Act, Congress recognized that visibility is a resource to be valued and preserved now and for future generations, and set forth a national goal that calls for “the prevention of any future, and the remedying of any existing, impairment of visibility in mandatory Class I federal areas which impairment results from manmade air pollution.” The Regional Haze Rule (RHR) expanded this mandate by requiring monitoring in locations representative of the 156 visibility-protected federal Class I areas. The Interagency Monitoring of PROtected Visual Environments (IMPROVE) network was designated as the visibility monitoring network to be used to carry out this responsibility.²

There are seven PM2.5 speciation monitors operating in the District’s network. Per the requirements referenced above, six of the monitors meet the CSN requirement, two of which are supplemental monitors. Four of the monitors also meet the STN requirement. One of the monitors serves as part of the IMPROVE network. Details on these PM2.5 speciation monitors are shown in Table 22, and Appendix B.

² IMPROVE Program, <https://vista.cira.colostate.edu/Improve/improve-program/>

Table 22 – PM2.5 Speciation Monitors

Site Name	Network Affiliation	Monitor Type	FRM/FEM/Other	Site Type	Spatial Scale	Basic Monitoring Objective	Sampling Frequency
Modesto-14th St	CSN Supplement	SLAMS	Other	PE	N	RS	1:6
Fresno-Garland*	NCore, CSN, STN	SLAMS	Other	PE	N,U	RS	1:3
	NCore, CSN, STN	SLAMS	Other	PE	N,U	RS	1:3
	NCore, IMPROVE	SLAMS	Other	GB	N,U	RS	1:3
Visalia-W. Ashland Ave	CSN Supplement	SLAMS	Other	PE	N	RS	1:3
Bakersfield-California	CSN, STN	SLAMS	Other	PE	N,U	RS	1:3
	CSN, STN	SLAMS	Other	PE	N,U	RS	1:6

CSN – Chemical Speciation Network STN – Speciation Trends Network

IMPROVE – Interagency Monitoring of PROtected Visual Environments

PE – Population Exposure N – Neighborhood U – Urban RS – Research TP – Timely/Public

1:3 = One sample per 3 days 1:6 = One sample per 6 days

*PM2.5 Speciation monitor information for the Fresno-Garland NCore site is also provided in Table 23.

NCore

National Core (NCore) multipollutant sites are intended to be long-term sites useful for a variety of applications including air quality trends analyses, model evaluation, and tracking metropolitan area statistics. 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 part 58 and established a requirement for NCore multi-pollutant monitoring stations to be operational by January 1, 2011. Since CARB'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.

CARB'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 and 2.5 paired monitors at this site. A gas dilution calibrator, a zero air generator, and digital data loggers capable of ingesting minute data 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 23 and Appendix B.

Table 23 – Fresno-Garland NCore Site

Pollutant	Monitor Type	FRM/FEM/Other	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Frequency	QA Collocation
Ozone	SLAMS	FEM	PE	U	NC,RS	Hourly	
NO2	SLAMS	FRM	PE	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	PE	N	NC,RS	1:3	✓
PM2.5 (cont.)	SLAMS	FEM	PE	N	NC,RS	Hourly	
PM2.5 Speciation (CSN, STN)	SLAMS	SLAMS	PE	N,U	RS	1:3	
	SLAMS	SLAMS	PE	N,U	RS	1:3	
PM2.5 Speciation (IMPROVE)	SLAMS	SLAMS	GB	N,U	RS	1:3	
PM10 STP (cont.)	SLAMS	FEM	PE	N	NC,RS,TP	Hourly	
PM10-2.5 (cont.)	SLAMS	Other	GB	N	NC,RS	Hourly	

cont. – Continuous man. – Manual PE – Population Exposure N – Neighborhood U – Urban
 RS – Research Max PEI – Max Precursor Emissions Impact NC – NAAQS Comparison
 TP – Timely/Public STP – Standard Temperature and Pressure 1:3 = One sample per 3 days
 Hourly = One sample every hour CSN – Chemical Speciation Network STN – Speciation Trends Network
 IMPROVE -- Interagency Monitoring of PROtected Visual Environments

Non-EPA Federal Monitors

Non-EPA Federal Monitors are operated by a federal agency other than EPA. Within the District's air monitoring network, non-EPA federal monitors are located in Sequoia and Kings Canyon National Parks and are operated by the National Park Service (NPS). The monitors operating at the Sequoia-Ash Mountain air monitoring site are affiliated with the national 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.

As of December 2020, the PM2.5 monitor at Ash Mountain has been operating as an FEM and is collecting PM2.5 air quality data under AQS parameter code 88101. This was a change from the previous non-FEM configuration and parameter code 88502. The PM2.5 FEM monitor at Ash Mountain continues to operate as a non-EPA federal special purpose monitor (SPM). Although NPS has been operating the PM2.5 monitor as an FEM, the data has not been certified annually and thus does not meet requirements for comparability to the PM2.5 NAAQS. Details on the non-EPA federal monitors are provided in Table 24 and Appendix B.

Table 24 – Non-EPA Federal Monitors

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

HC – High Concentration RT – Regional Transport WRI – Welfare Related Impacts GB – General Background
 R – Regional NC – NAAQS Comparison RS – Research TP – Timely/Public Hourly = One sample every hour

*The Lower Kaweah site was shut down in August 2024 due to lack of funding.

As previously noted, the 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. This detailed site information is provided in Table 25 through Table 29 as well as in Appendix B of this network plan.

Table 25 – SLAMS Site Type

Site Name*	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (cont.)	NO2	CO	NMH
Stockton-University Park	PE		HC, PE	HC	PE	PE	
Tracy-Airport	RT			PE	PE		
Manteca			HC	HC			
Modesto-14th St	GB		PE	PE		PE	
Turlock	PE		PE	PE	PE		
Merced-M St			PE	PE			
Merced-Vierra	PE, HC		PE				
Madera-City	PE		PE	PE			
Madera-Pump Yard	GB				GB		GB
Tranquillity	PE		GB				
Fresno-Sky Park	PE				PE		
Clovis-Villa	HC		HC	HC	HC	PE	HC
Fresno-Pacific			PE				
Fresno-Drummond	PE			PE	HC		
Fresno-Foundry			HC		HC	HC	
Parlier	PE				PE		PE
Hanford-Irwin	PE		PE	PE	PE		
Corcoran-Patterson			PE	HC			
Visalia-W. Ashland Ave	PE		HC, PE	PE	PE		
Porterville	PE						
Shafter	GB, PE				PE		PE
Oildale	HC			SO			
Bakersfield-Golden / M St			PE	PE			
Bakersfield-Westwind					HC		
Bakersfield-California	GB, PE	PE, HC	PE	PE	PE		
Bakersfield-Muni	PE				PE	PE	PE
Bakersfield-Airport (Planz)		PE					
Edison	HC				PE		
Arvin-Di Giorgio	PE						
Maricopa	RT						

cont. – Continuous man. – Manual PE – Population Exposure HC – Highest Concentration

RT – Regional Transport GB – General/Background SO – Source impact

* Site Type information for the QA Collocated sites is provided in 21.

* Site Type information for the Fresno-Garland NCore site is provided in Table 23.

Table 26 – SLAMS Spatial Scale

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (cont.)	NO2	CO	NMH
Stockton-University Park	N		N	N	N		
Tracy-Airport	R			N	N		
Manteca			N	N			
Modesto-14th St	N		N	N		N	
Turlock	N		N	N	N		
Merced-M St			N	N			
Merced-Vierra	N		N				
Madera-City	N		N	N			
Madera-Pump Yard	U				U		U
Tranquillity	U		U				
Fresno-Sky Park	N				N		
Clovis-Villa	N		N	N	N	N	N
Fresno-Pacific			N				
Fresno-Drummond	N			N	N		
Fresno-Foundry			MC		MC	MC	
Parlier	U				U		U
Hanford-Irwin	N		N	N	N		
Corcoran-Patterson			N	N			
Visalia-W. Ashland Ave	N		N	N	N		
Porterville	N						
Shafter	N			N	N		N
Oildale	U			MD			
Bakersfield-Golden / M St			N	N			
Bakersfield-Westwind					MC		
Bakersfield-California	N	N	N		N		
Bakersfield-Muni	N				N	N	N
Bakersfield-Airport (Planz)		N					
Edison	N				N		
Arvin-Di Giorgio	N						
Maricopa	N						

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

* Spatial Scale information for the QA Collocated sites is provided in Table 211.

* Spatial Scale information for the Fresno-Garland NCore site is provided in Table 23.

Table 27 – SLAMS Basic Monitoring Objective

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (cont.)	NO2	CO	NMH
Stockton-University Park	NC,RS,TP		NC,RS,TP	NC,RS,TP	NC,RS, TP	NC, RS, TP	
Tracy-Airport	NC,RS,TP			NC,RS,TP	NC,RS,TP		
Manteca			NC,RS,TP	NC,RS,TP			
Modesto-14th St	NC,RS,TP		NC,RS,TP	NC,RS,TP		NC, TP	
Turlock	NC,RS,TP		NC,RS,TP	NC, RS, TP	NC, RS, TP		
Merced-M St			NC, RS, TP	NC, RS, TP			
Merced-Vierra	NC,RS,TP		NC,RS,TP		NC, RS,TP		
Madera-City	NC,RS,TP		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,TP	NC,RS,TP	NC,RS, TP	NC, RS, TP	RS
Fresno-Pacific			NC, RS, TP				
Fresno-Drummond	NC,RS,TP			NC, RS, TP	NC,RS,TP		
Fresno-Foundry			NC,RS,TP		NC,RS,TP	NC, RS, TP	
Parlier	NC,RS,TP				NC, RS, TP		RS
Hanford-Irwin	NC,RS,TP		NC,RS,TP	NC,RS,TP	NC,RS,TP		
Corcoran-Patterson			NC,RS,TP	NC,RS,TP			
Visalia-W. Ashland Ave	NC, RS,TP		NC, RS,TP	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, TP	NC, RS, TP			
Bakersfield-Westwind					NC, RS, TP		
Bakersfield-California	NC, RS, TP	NC, RS	RS, TP	NC, RS, TP	NC, RS, TP		
Bakersfield-Muni	NC,RS,TP				NC, RS, TP	NC,RS, TP	RS
Bakersfield-Airport (Planz)		NC, RS					
Edison	NC,RS,TP				NC, RS,TP		
Arvin-Di Giorgio	NC,RS,TP						
Bakersfield-Airport (Planz)		NC, RS					

NC – NAAQS Comparison RS – Research TP – Timely/Public cont. – Continuous man. – Manual

* Basic Monitor Objective information for the QA Collocated sites is provided in Table 211.

* Basic Monitor Objective information for the Fresno-Garland NCore site is provided in Table 23.

Table 28 – SLAMS Sampling Frequency

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (cont.)	NO2	CO	NMH
Stockton-University Park	Hourly		Hourly	Hourly	Hourly	Hourly	
Tracy-Airport	Hourly			Hourly	Hourly		
Manteca			Hourly	Hourly			
Modesto-14th St	Hourly		Hourly	Hourly		Hourly	
Turlock	Hourly		Hourly	Hourly	Hourly		
Merced-M St			Hourly	Hourly			
Merced-Vierra	Hourly		Hourly		Hourly		
Madera-City	Hourly		Hourly	Hourly			
Madera-Pump Yard	Hourly				Hourly		Hourly
Tranquillity	Hourly		Hourly				
Fresno-Sky Park	Hourly				Hourly		
Clovis-Villa	Hourly		Hourly	Hourly	Hourly	Hourly	Hourly
Fresno-Pacific			Hourly				
Fresno-Drummond	Hourly			Hourly	Hourly		
Fresno-Foundry			Hourly		Hourly	Hourly	
Parlier	Hourly				Hourly		Hourly
Hanford-Irwin	Hourly		Hourly	Hourly	Hourly		
Corcoran-Patterson			Hourly	Hourly			
Visalia-W. Ashland Ave	Hourly		Hourly	Hourly	Hourly		
Porterville	Hourly						
Shafter	Hourly				Hourly		Hourly
Oildale	Hourly			Hourly			
Bakersfield-Golden / M St			Hourly	Hourly			
Bakersfield-Westwind					Hourly		
Bakersfield-California	Hourly	1:1	Hourly	Hourly	Hourly		
Bakersfield-Muni	Hourly				Hourly	Hourly	Hourly
Bakersfield-Airport (Planz)		1:3					
Edison	Hourly				Hourly		
Arvin-Di Giorgio	Hourly						
Maricopa	Hourly						

cont. – Continuous man. – Manual Hourly = One sample every hour 1:1 = One sample per day

1:3 = One sample in 3 days 1:6 = One sample in 6 days

* Current Sampling Frequency information for the QA Collocated sites is provided in Table 211.

* Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23

Table 29 – SPM / Other (PM_{2.5} 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
Bakersfield-California	PE	N	RS, TP	Hourly
Lebec	PE	N	TP	Hourly

PE – Population Exposure RT – Regional Transport N – Neighborhood R – Regional RS – Research
 TP – Timely/Public Hourly – One sample every hour

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 future 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 changes to sites in 2024 and 2025 to-date, along with planned changes to the District’s air monitoring network are discussed below and provided in Table 30.

Meteorology Wind Parameters - District-operated Sites

The District is in the process of removing the cup anemometers that measure wind speed and wind direction from the District-operated sites in the network, and replacing them with sonic anemometers for measurement of the wind parameters using ultrasonic soundwaves. The change-out will be completed by end-of-year 2025.

Stockton and Modesto

In April 2024, CARB submitted to EPA its *2023 Revision to the California State Implementation Plan for Carbon Monoxide*. The SIP revision includes the removal of monitoring requirements for three maintenance areas in the State; two of which (Stockton and Modesto) are in the San Joaquin Valley. On March 31, 2025, EPA issued a notice of proposed rulemaking to approve the revision to the California SIP that removes the CO monitoring requirements at the Stockton-University Park (AQS ID: 06-077-1003-42101) and Modesto-14th Street (AQS ID: 06-099-0005-42101) air monitoring sites. While an official approval from EPA on CARB’s monitoring discontinuation request is yet to be received, CO data collection at Stockton-University ended after May 31, 2024 and ended at Modesto-14th St. after December 31, 2024.

Turlock

The District plans to replace the ozone FEM instrument with an FRM instrument.

Merced-Coffee relocation to Merced-Vierra

In August 2023, the District received a notice of termination of lease for the property where the Merced-Coffee air monitoring station was located (385 South Coffee St., Merced, CA, AQS ID 06-047-0003). The District was required to fully vacate the property by end of February 2024. The District received approval from EPA for a suitable site at 3076 E. Childs Ave., Merced, CA, (replacement site name is “Merced-Vierra”, AQS ID 06-047-2024), which is 0.6 miles northeast of the old Merced-Coffee monitoring station. PM2.5 and ozone measurements began at the new Merced-Vierra location in the first week of January 2024. In July 2024, EPA approved the relocation of the O3, PM2.5, and NO2 State/Local Air Monitoring Station (SLAMS) monitors from the Merced-Coffee site to the Merced-Vierra site. The District plans to complete the relocation of the NO2 and meteorological parameters to the Merced-Vierra site later in 2025.

Fresno-Sierra Sky Park

Vegetation to the south and southwest of the Fresno-Sierra Sky Park site (AQS ID 06-019-0242) had grown to the point of disrupting wind flow from the south, southwest and the southeast. Based on these conditions, the site was not meeting siting requirements for SLAMS monitors. As such, the District has been operating the site and applying the appropriate qualifier code/s to all gaseous data in the EPA AQS database to inform data users of the siting issues. The qualifier code ‘SX - Does not meet siting criteria’ is the code currently being used. In 2022, the District temporarily cleared the obstruction and received permission from the neighboring property owner to routinely clear the vegetative obstruction as necessary. The District plans to work with CARB/EPA to discontinue placing the “SX” flag on the data collected from this site.

Fresno-Garland

CARB is continuing with the plan to implement PAMS monitoring at the Fresno-Garland NCore site and are working with the U.S. EPA PAMS working group, Office of Air Quality Planning and Standards (Air Quality Assessment Division-EPA), and Region IX. Dedicated staff have been hired and program-specific monitoring devices and equipment have undergone CARB procurement. A staged implementation is planned as monitors are received and undergo acceptance testing. CARB expects PAMS measurements at Fresno-Garland to be active in June 2025.

Porterville

Effective April 25, 2024, at 11:00 AM, the ozone monitoring method was changed from a Federal Equivalent Method (FEM; method code 087) to a Federal Reference Method (FRM; method code 199). The previous FEM designation remained in effect through 10:00 AM on that date.

Lower Kaweah

The National Park Service closed the Lower Kaweah site on August 11, 2024 due to lack of funding. If funding becomes available, the site may become operational again; however, the closure of the site is indefinite and it is not anticipated that monitoring will resume.

Bakersfield-Airport (Planz)

CARB are continuing their evaluation and development of a plan to relocate the PM2.5 monitor to a new air monitoring site due to site safety concerns and is including public opportunities to review and comment on the proposed changes. Additionally, CARB and SJVAPCD evaluation of siting challenges and available PM2.5 data are ongoing to determine whether the site should remain comparable to the annual PM2.5 NAAQS. Any changes to the monitoring network will be made available for public review and comment and will be reflected in future SJV Air Monitoring Network Plans.

Arvin-Di Giorgio

In 2024, CARB completed the process of transitioning to a permanent replacement air monitoring shelter at the Arvin-Di Giorgio site and the permanent shelter was operational around April/May 2024. CARB and the District will review resuming Type 3 PAMS monitoring at this site. Updates on any changes to the PAMS network for the Bakersfield area will be included in future SJV Air Monitoring Network Plans.

Table 30 – Summary of Proposed Changes to the Air Monitoring Network

CBSA: Stockton		County: San Joaquin
Site Name	Operating Agency	Planned Changes
Stockton-University Park	CARB	Removal of CO monitoring after EPA approval of CARB 2024 CO SIP Revision.
Tracy-Airport	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Manteca	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
CBSA: Modesto		County: Stanislaus
Site Name	Operating Agency	Planned Changes
Modesto-14th St	CARB	Removal of CO monitoring after EPA approval of CARB 2024 CO SIP Revision.
Turlock	SJVAPCD	Ozone instrument change from FEM to FRM Cup anemometers being replaced with sonic anemometers.
CBSA: Merced		County: Merced
Site Name	Operating Agency	Planned Changes
Merced-M St	SJVAPCD	Cup anemometers being replaced with sonic anemometers
Merced-Coffee / Vierra	SJVAPCD	Site was relocated to nearby Merced-Vierra. PM2.5 and Ozone collection started at Merced-Vierra in January 2024. NO2 and meteorology parameters expected to resume at Merced-Vierra in 2025.
CBSA: Madera		County: Madera
Site Name	Operating Agency	Planned Changes
Madera-City	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Madera-Pump Yard	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
CBSA: Fresno		County: Fresno
Site Name	Operating Agency	Planned Changes
Fresno-Sky Park	SJVAPCD	Work with CARB/EPA to discontinue the use of the "SX" ("Does Not Meet Siting Criteria") quality assurance qualifier code. Cup anemometers being replaced with sonic anemometers.

Table 30 – Summary of Proposed Changes to the Air Monitoring Network (cont'd)

Clovis-Villa	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Fresno-Garland	CARB	PAMS monitoring planned to be active in June 2025.
Fresno-Pacific	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Fresno-Drummond	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Fresno-Foundry (near-road)	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Parlier	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Tranquillity	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Huron	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
CBSA: Kings	County: Kings	
Site Name	Operating Agency	Planned Changes
Hanford-Irwin	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Corcoran-Patterson	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
CBSA: Visalia-Porterville	County: Tulare	
Site Name	Operating Agency	Planned Changes
Visalia-W. Ashland Ave.	CARB	None
Porterville	SJVAPCD	Change from FEM to FRM Ozone monitor completed on April 25, 2024. Cup anemometers being replaced with sonic anemometers.
Sequoia-Ash Mountain	NPS	None
Sequoia-Lower Kaweah	NPS	Closed on August 11, 2024 due to lack of funding.
CBSA: Bakersfield	County: Kern (Valley Portion Only)	
Site Name	Operating Agency	Planned Changes
Shafter	Shared	None
Oildale	CARB	None
Bakersfield-Golden/M St.	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Bakersfield-Westwind (near-road)	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Bakersfield-California	CARB	None
Bakersfield-Muni	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Bakersfield-Airport (Planz)	CARB	Plans for relocating the PM2.5 monitor are in development, with public opportunities for review and comment.
Edison	CARB	None
Arvin-Di Giorgio	CARB	CARB and District to evaluate options for resuming Type 3 PAMS monitoring.
Maricopa	SJVAPCD	Cup anemometers being replaced with sonic anemometers.
Lebec	SJVAPCD	Cup anemometers being replaced with sonic anemometers.

DATA SUBMISSION REQUIREMENTS

Air quality and precision data are required to be submitted to EPA 90 days after the end of the calendar quarter after all air quality assurance checks are completed. Accuracy data is submitted to EPA by CARB as part of their scheduled audits. The District is responsible for certifying data from District-operated air monitoring sites. The District certified its 2024 data on March 21, 2025. CARB is responsible for certifying data from all CARB-operated air monitoring sites. CARB certified its 2024 data on April 18, 2025. For information on CARB's data certification, see CARB's air monitoring network plan.³

³ CARB air monitoring network plan webpage: <http://www.arb.ca.gov/aqd/amnr/amnr.htm>

ACRONYMS AND ABBREVIATIONS

AQI:	Air Quality Index
AQS:	EPA's 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
EJ:	Environmental Justice
EPA:	U.S. Environmental Protection Agency
FEM:	Federal Equivalent Method
FRM:	Federal Reference Method
MSA:	Metropolitan statistical area
NAAQS:	National Ambient Air Quality Standard
NCore:	National Core
NMH:	Non-Methane Hydrocarbons
NO:	Nitrogen Oxide
NO ₂ :	Nitrogen Dioxide
NO _x :	Oxides of Nitrogen
NO _y :	Reactive Nitrogen
NPS:	National Park Service
O ₃ :	Ozone
PAMS:	Photochemical Assessment Monitoring Station
PM:	Particulate Matter
PM _{2.5} :	Particulate Matter 2.5 microns or less in diameter
PM ₁₀ :	Particulate Matter 10 microns or less in diameter
SIP:	State Implementation Plan
SLAMS:	State and Local Air Monitoring Station
SJVAPCD:	San Joaquin Valley Air Pollution Control District
SMS:	Smoke Management System
SO ₂ :	Sulfur Dioxide
SPM:	Special Purpose Monitor
STN:	Speciated Trends Network
TEOM:	Tapered Element Oscillating Microbalance
VOC:	Volatile Organic Compounds

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APPENDIX A:

Air Monitoring Site Descriptions

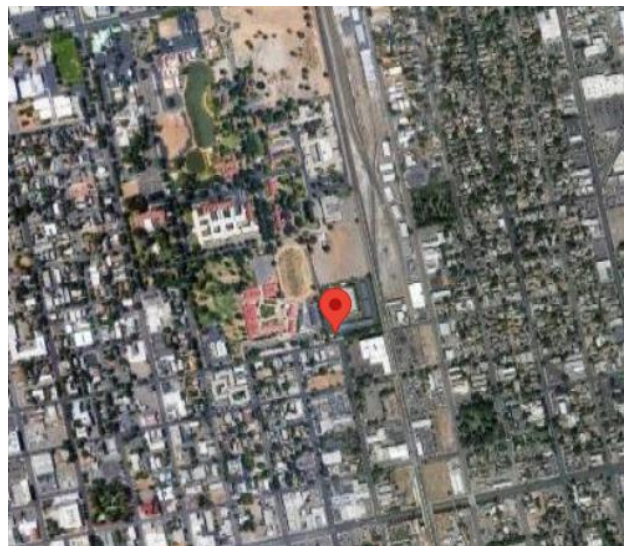
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Stockton-University Park

The Stockton-University Park monitoring site is operated by the California Air Resources Board (CARB) and is located in the Stockton, CA metropolitan area. It began operating in November 2021, replacing the Stockton-Hazelton site. 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-University Park
AQS ID:	06-077-1003
County:	San Joaquin
Street Address:	702 N. Aurora Street, Stockton CA 95202
Geographic Coordinates:	37.9158 N, -121.28141 W
Distance to road (meters):	60 m (north)
Traffic Count (AADT; Year):	4,000; 2019
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Stockton-Lodi

Traffic count for nearest cross road: Park St
 Source: City of Stockton 2019 Traffic Volume Flow Map

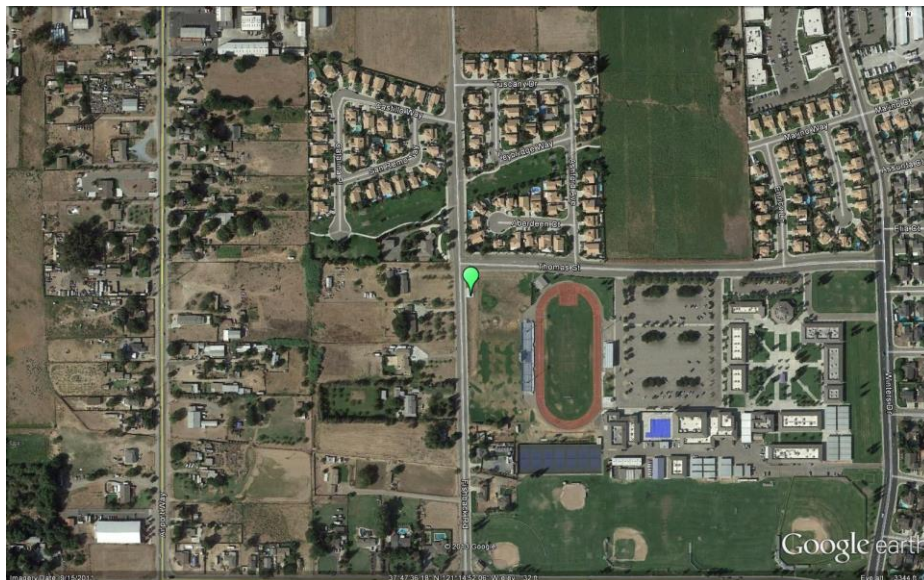


Manteca

The Manteca monitoring site is located in Manteca, CA and operated by the San Joaquin Valley Air Pollution Control District (District). 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):	20,487; 2020*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Stockton-Lodi

*Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120.
 Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report

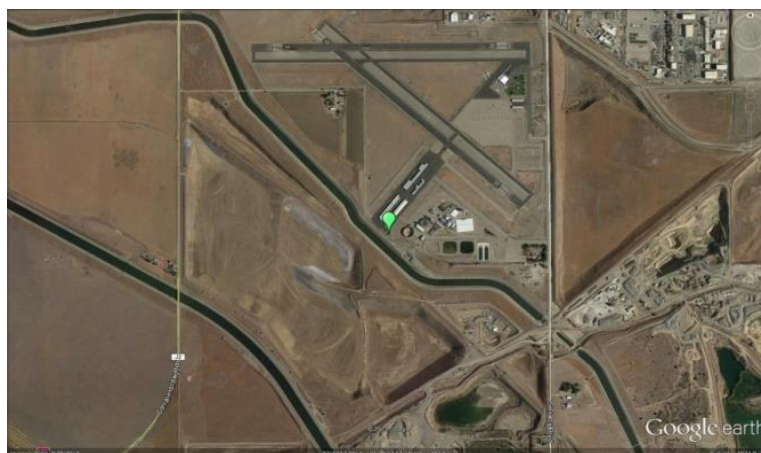


Tracy-Airport

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, PM_{2.5}, 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):	5,113; 2020*
Ground Cover:	Dirt and Gravel
Representative Statistical Area (CBSA):	Stockton-Lodi

*Traffic count for nearest roads: Linne Rd and Corral Hollow Rd.
 Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report

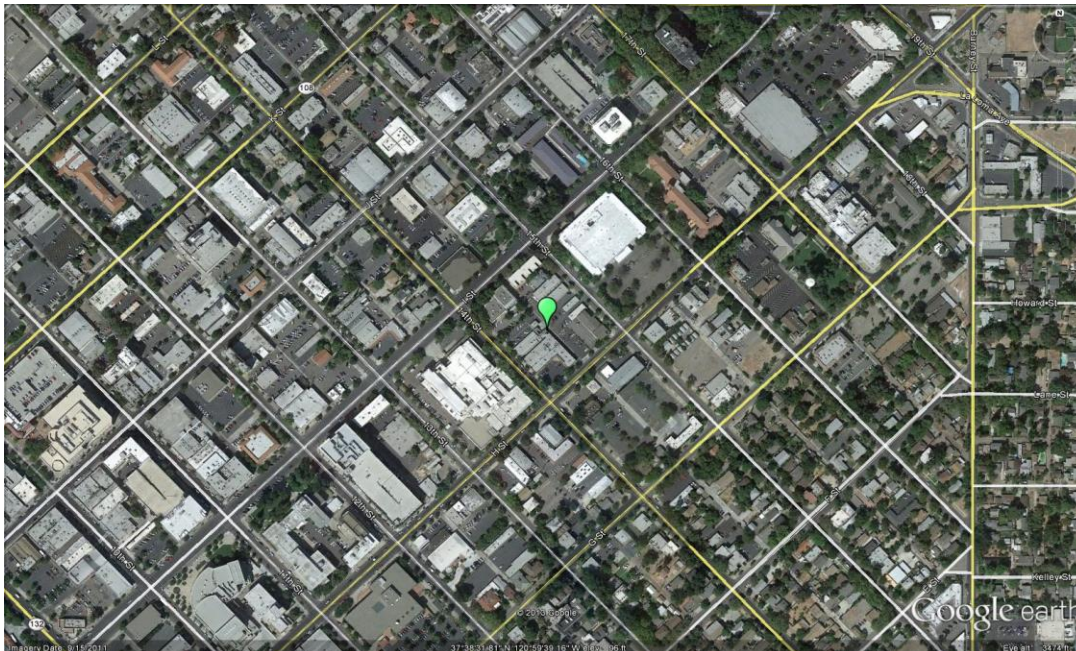


Modesto-14th St

The Modesto-14th 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 th 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):	132,000; 2022*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Modesto

* Traffic count for nearest roads: H Street / CA Route 99. Source: Caltrans 2022 AADT

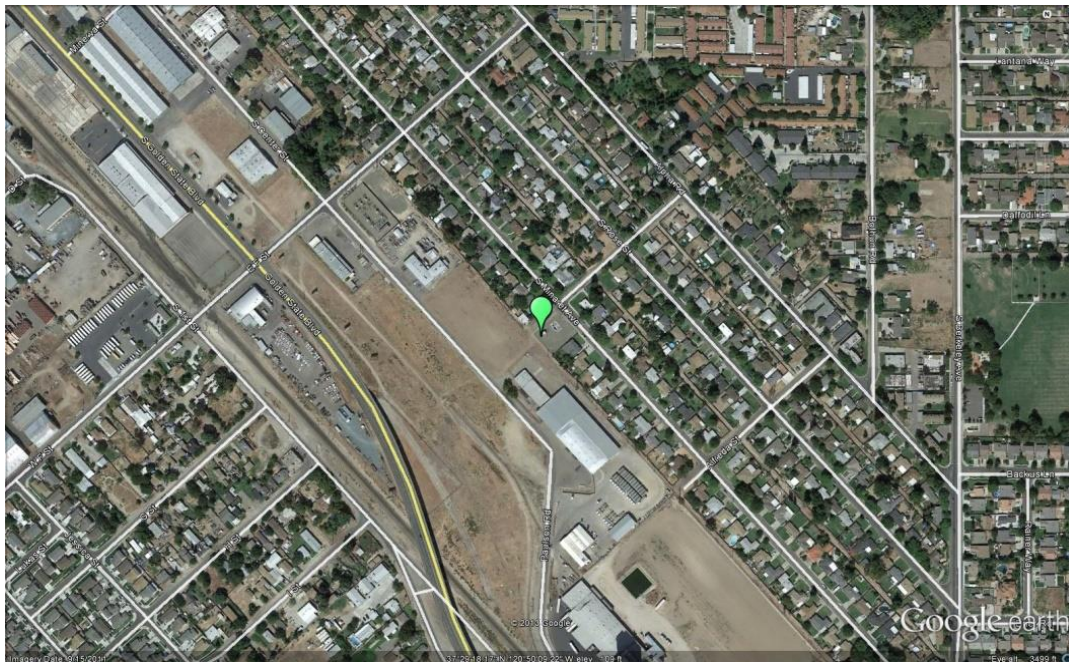


Turlock

The Turlock monitoring site is operated by the District 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

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

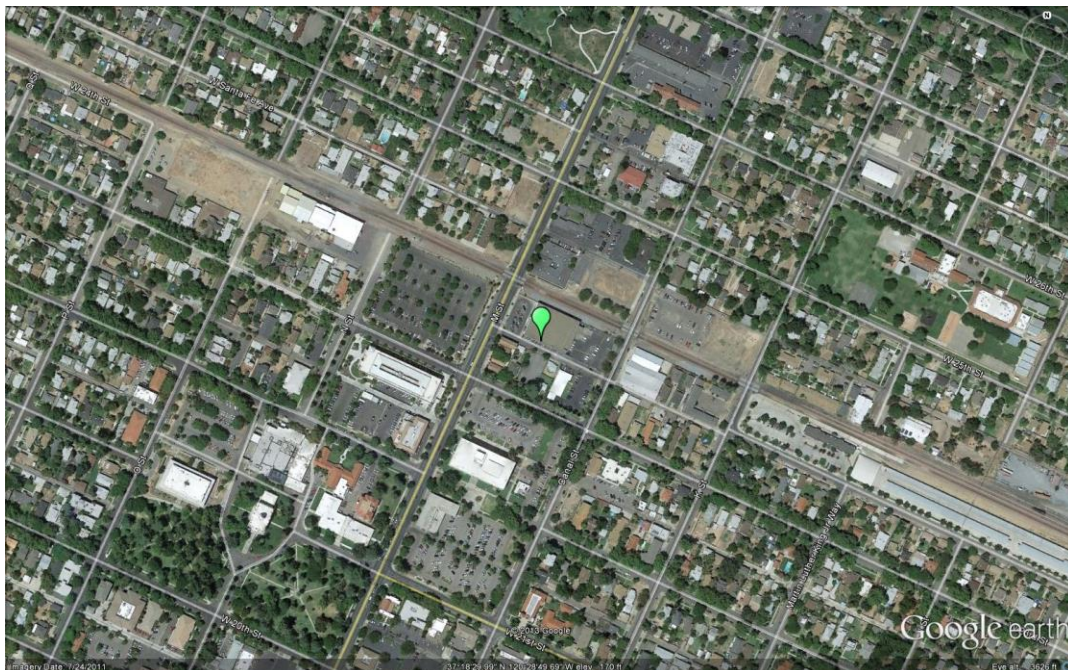


Merced-M St

The Merced-M St monitoring site is operated by the District 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; 2022*
Ground Cover:	Paved, gravel
Representative Statistical Area (CBSA):	Merced

*Traffic count for nearest roads: R St / CA Route 99. Source: Caltrans 2022 AADT



Merced-Vierra

The Merced-Vierra monitoring site is operated by the District and is located in the Merced, CA. It began operating in January 2024. The purpose of the site is to monitor representative concentrations of ozone and PM2.5 responses from upwind urban areas. The District plans to add NO2 and meteorological parameters to the site in the future.

Site name:	Merced-Vierra
AQS ID:	06-047-2024
County:	Merced
Street Address:	3076 E. Childs Ave., Merced, CA 95341
Geographic Coordinates:	37.289732 N, -120.42971 W
Distance to road (meters):	223 m (S)
Traffic Count (AAD; Year):	42,500/2019*
Ground Cover:	Vegetative, dirt and gravel
Representative Statistical Area (CBSA):	Merced

* Traffic count for nearest roads: Childs Avenue/Rte 99, Source: Caltrans 2019 AADT

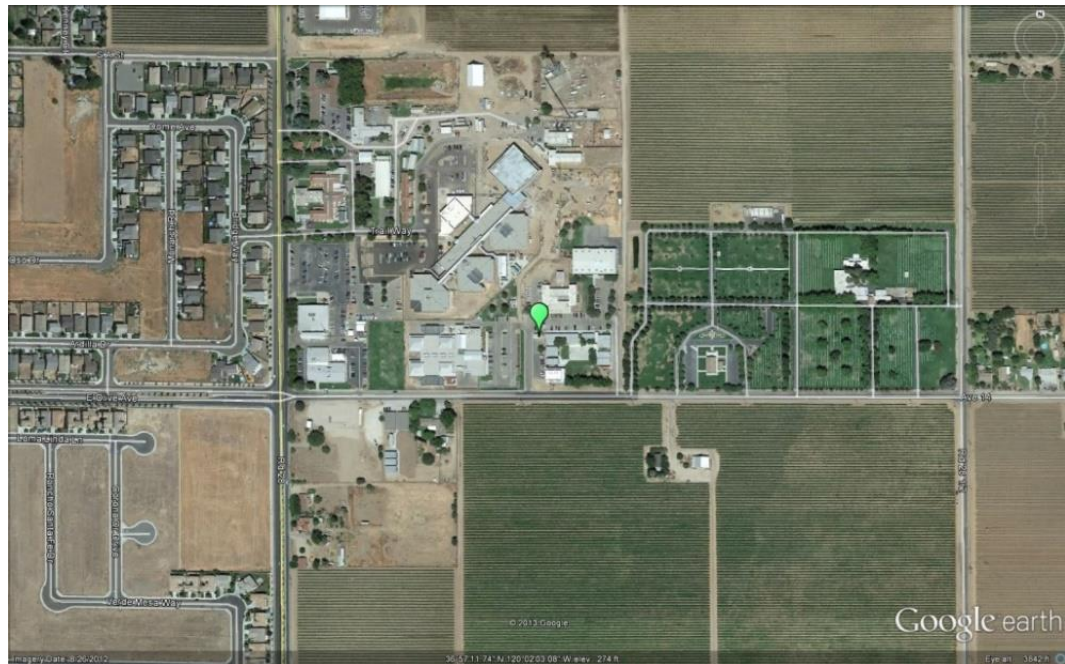


Madera-City

The Madera-City monitoring site is operated by the District 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, and 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):	640; 2023*
Ground Cover:	Paved, dirt, and vegetative
Representative Statistical Area (CBSA):	Madera

*Traffic count for nearest roads: Avenue14 west of Road 29, eastbound trips per hour in 24 hours. Source: Madera County Traffic Monitoring Program 2023 Traffic Volumes Report.

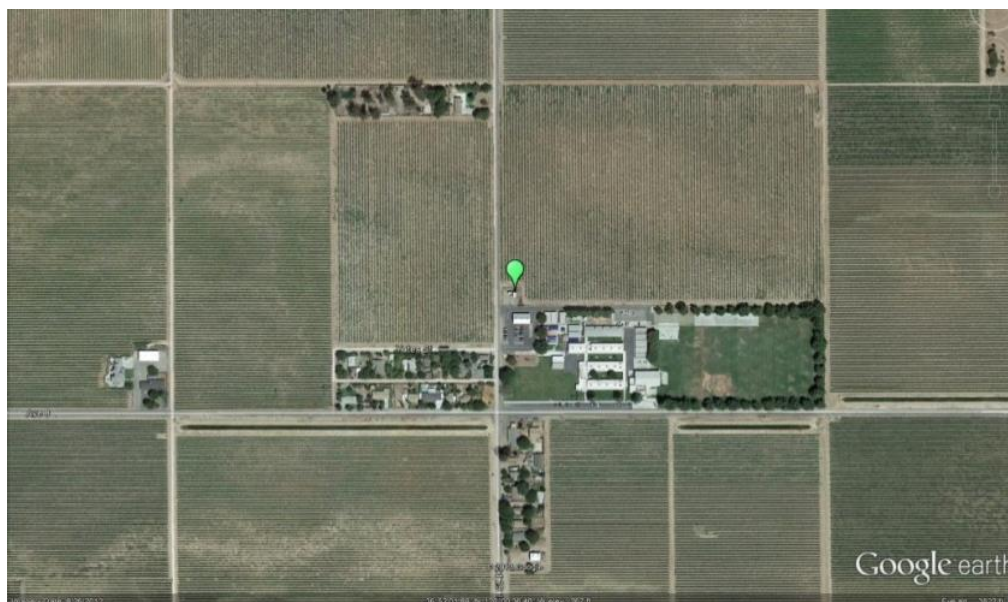


Madera-Pump Yard

The Madera-Pump Yard monitoring site is operated by the District 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 is 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):	3,319; 2021*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Madera

*Traffic count for nearest roads: Avenue 7 west of CA Route 99, eastbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2023 Traffic Volumes Report.

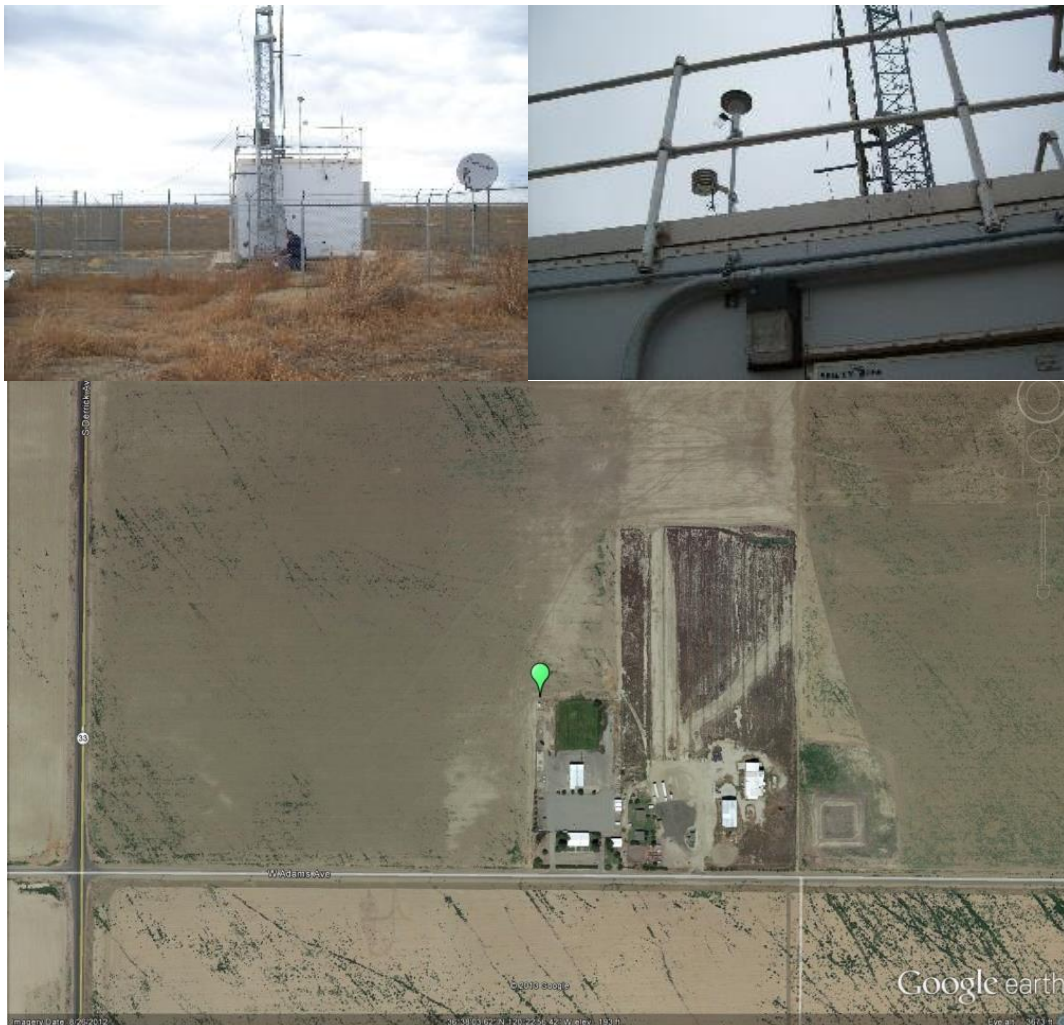


Tranquillity

The Tranquillity monitoring site is located in western Fresno County. It began operating in September 2009 and is operated by the District. 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:	36.634225 N, -120.382331 W
Distance to road (meters):	200 m (south)
Traffic Count (AADT; Year):	1,450; 2022*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

* Raw traffic count for nearest roads: Adams Avenue and Route 33 (S. Derrick Avenue)
 Source: Caltrans 2022

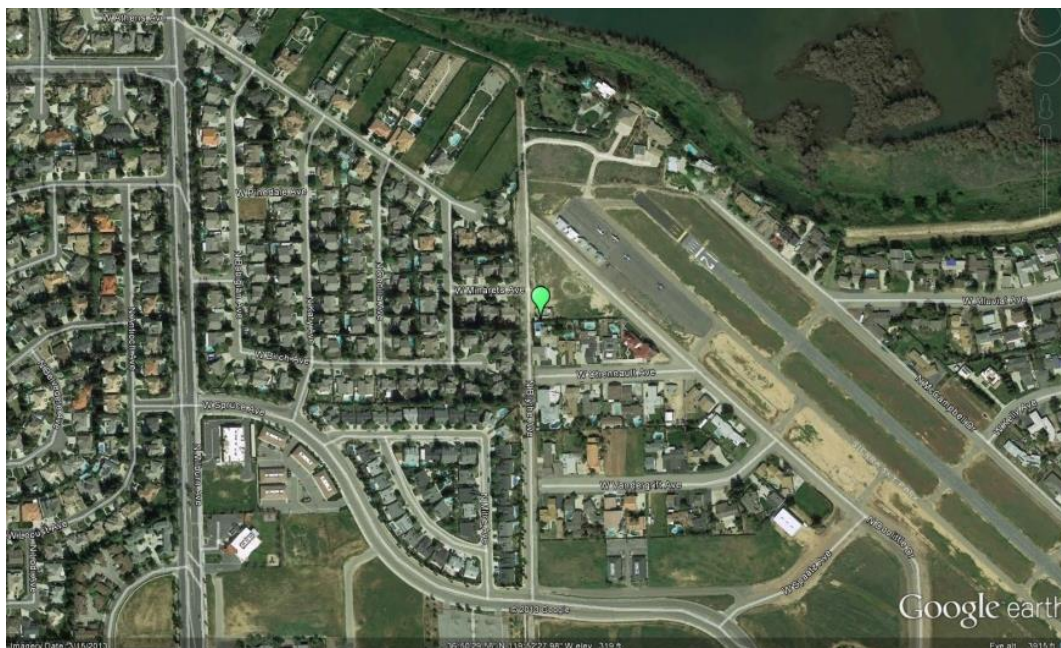


Fresno-Sierra Sky Park

The Fresno-Sierra Sky Park monitoring site is operated by the District 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

*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.



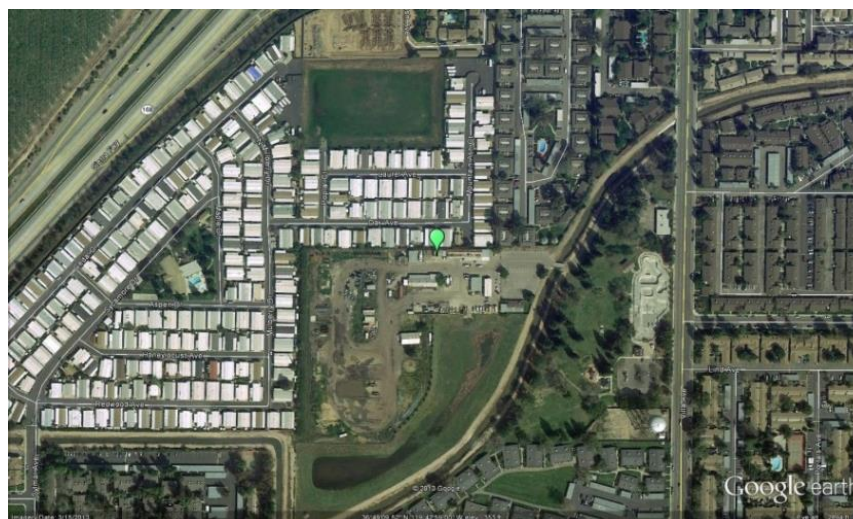
Clovis-Villa

The Clovis-Villa monitoring site is operated by the District 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, intended to measure maximum ozone precursor emissions. The site monitors ozone, CO, NO₂, NMH and speciated-VOC, and meteorology for the PAMS program. PM_{2.5} 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):	13,248; 2017*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

*Combined ADT (northbound and southbound Villa Avenue between Barstow Avenue and Bullard Avenue).

Source: City of Clovis, Engineering Division, Traffic Information: Speed Limits and Traffic Counts Viewer <https://cloviswebgis.maps.arcgis.com/apps/webappviewer/index.html?id=d318daa852164de3ac4d3b5963875961>

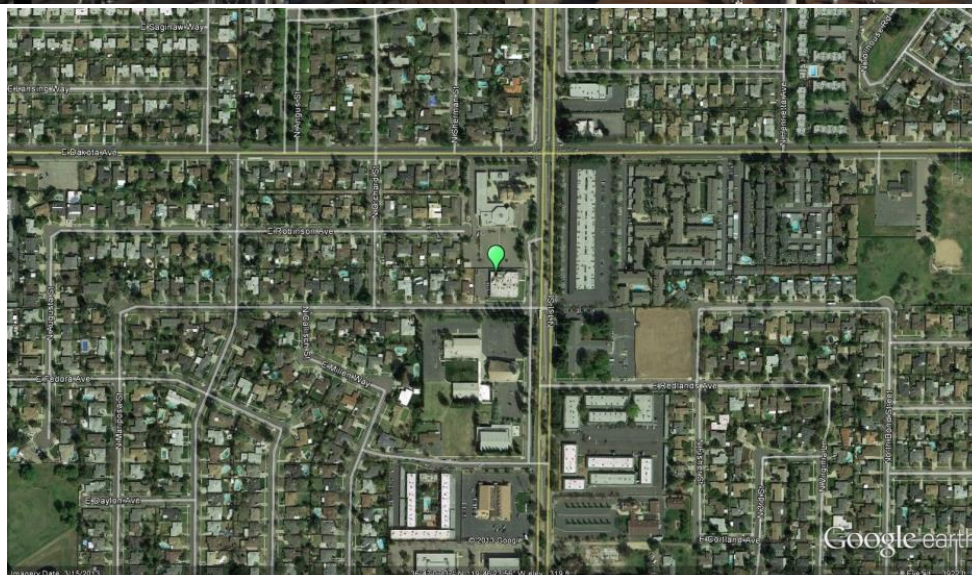


Fresno-Garland

The Fresno-Garland monitoring site is a National Core (NCore) site operated by CARB and is located in the Fresno, CA metropolitan area. It replaced the Fresno-First St. site and began operating in December 2011. The purpose of the site is to monitor representative concentrations of ozone, PM_{2.5}, and PM₁₀ in an urban area. The site also monitors PM_{10-2.5}, PM_{2.5} Speciation, CO, NO₂, NO_y, 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 93726
Geographic Coordinates:	36.7853 N, -119.7732 W
Distance to road (meters):	30 m (south)
Traffic Count (AADT; Year):	10,745; 2018*
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 Street north of Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2018. (latest available)



Fresno-Pacific

The Fresno-Pacific monitoring site is operated by the District 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

*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.

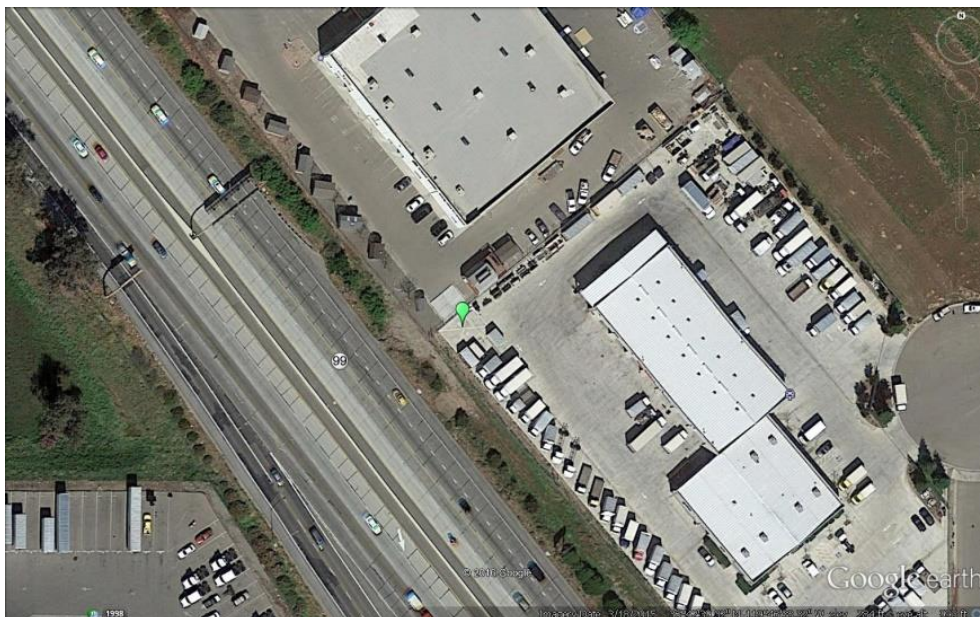


Fresno-Foundry

The Fresno-Foundry near-road NO2 monitoring site is operated by the District 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 NO2 concentrations near a high traffic roadway in an urban area. The site also monitors PM2.5, CO, and 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):	122,000; 2022*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

*Traffic count for nearest roads: CA Route 99 and Jensen Ave off-ramp. Source: Caltrans (2022)

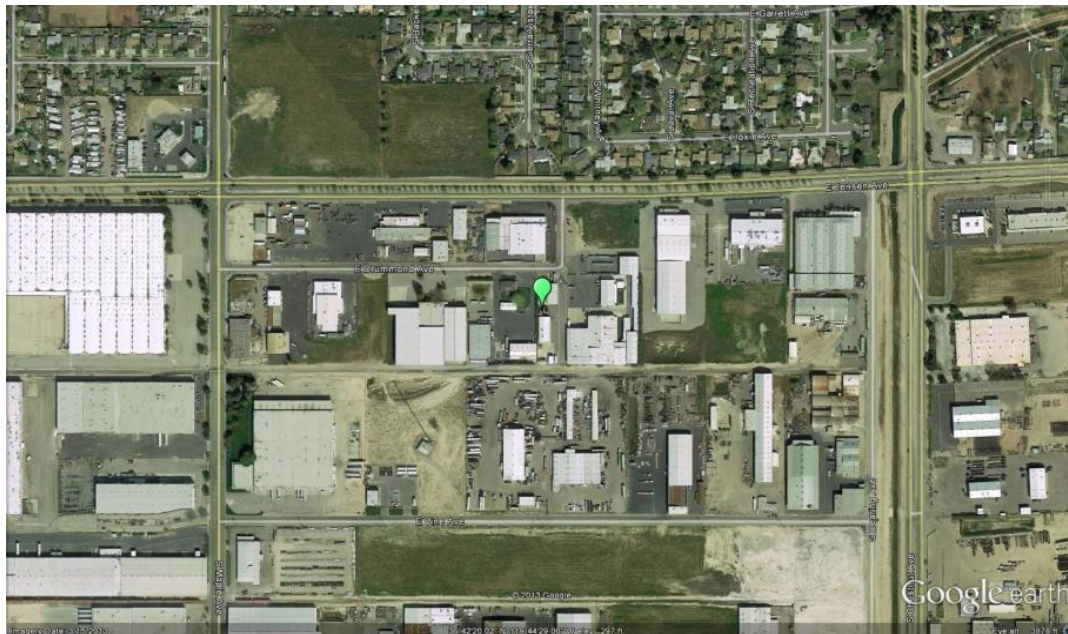
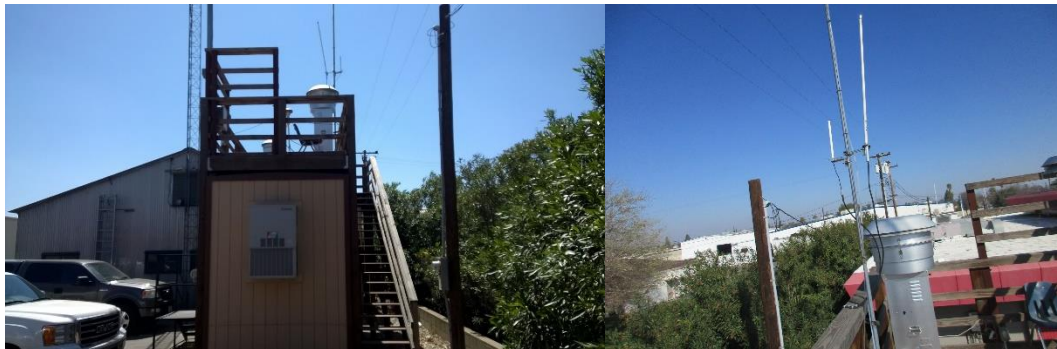


Fresno-Drummond

The Fresno-Drummond monitoring site is operated by the District 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):	31,167; 2019*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

*Daily traffic count: Jensen Ave north of Maple Ave.
 Source: Fresno Council of Governments, Planning Dept.



Parlier

The Parlier monitoring site is operated by the District 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):	8,950; 2015*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

*Raw traffic count in a 24-hour period for nearest roads: Manning Ave east of Smith. Source: Fresno COG Traffic Report, 2015.



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 of the site. North-South airflow is virtually unobstructed. This monitoring site is operated by the District and 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 4 th St, Huron, CA 93234
Geographic Coordinates:	36.198672 N, -120.101096 W
Distance to road (meters):	100 m (north)
Traffic Count (AADT; Year):	5,100; 2022*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Fresno

*Traffic count for nearest roads: CA Route 269 / CA Route 198. Source: Caltrans 2022

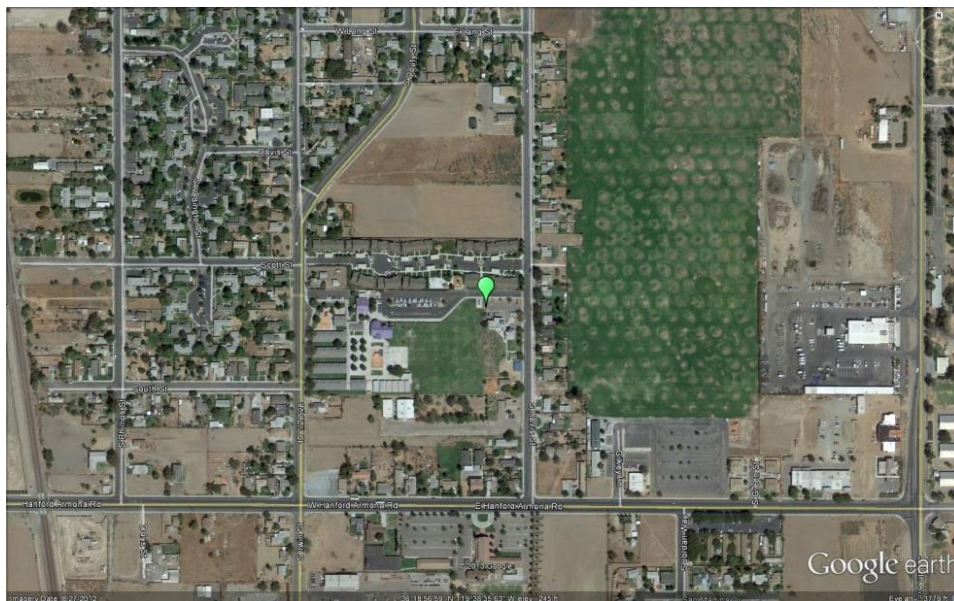


Hanford-Irwin

The Hanford-Irwin monitoring site is operated by the District 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):	2,828; 2017*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Hanford – Corcoran

*Traffic count for nearest roads: S. Douty Street south of E. Lang Street
 Source: City of Hanford Public Works - Traffic Counts Volume Summary 2017



Corcoran-Patterson

The Corcoran-Patterson monitoring site is operated by the District 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):	3,400; 2022*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Hanford – Corcoran

*Traffic count for nearest roads: Junction of CA Route 43 / CA Route 137. Source: Caltrans 2022.

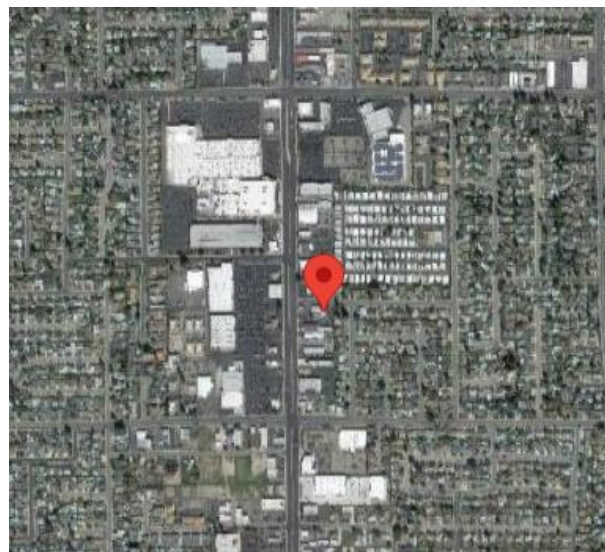


Visalia-W. Ashland Avenue

The Visalia-W. Ashland Avenue monitoring site is operated by CARB. It began operating in January 2022. 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, and meteorology. The Visalia-W. Ashland Ave. site replaced the Visalia-Church St. site and began operating in January 2022.

Site name:	Visalia-Ashland Ave.
AQS ID:	06-107-2003
County:	Tulare
Street Address:	2005 West Ashland Ave., Suite G, Visalia CA 93277
Geographic Coordinates:	36.30815 N, -119.31290 W
Distance to road (meters):	25 m (west)
Traffic Count (AADT; Year):	10,656; 2014*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Visalia – Porterville

*Traffic count for nearest roads: W Whitendale Avenue and S Mooney Blvd
 Source: Tulare County Association of Governments Traffic Counts Data System Interactive Map.



Porterville

The Porterville air-monitoring site became operational in March 2010, and is operated by the District. 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):	27,500; 2022*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Visalia-Porterville

*Ahead AADT traffic count for nearest roads: Junction CA Route 190/CA Route 65. Source: Caltrans 2022.

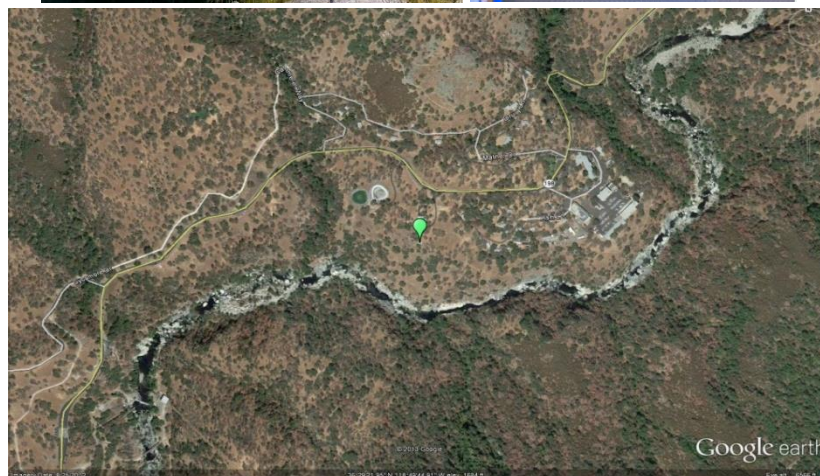


Sequoia-Ash Mountain

The Ash Mountain monitoring station is located within Sequoia and Kings Canyon National Parks at the southern entrance of the Park at 1,500-foot elevation. The site is operated by the National Park Service. It began operating in July 1999, though the site has been relocated several times over the years. The site measures ozone concentrations in the foothills and 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 Parks, 47050 Generals Hwy, Three Rivers, CA 93271
Geographic Coordinates:	36.4894 N, -118.8290 W
Distance to road (meters):	120 m (north)
Traffic Count (Back AADT; Year):	1,900; 2022*
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 2022



Sequoia-Lower Kaweah

The Lower Kaweah monitoring station was operated by Sequoia and Kings Canyon National Park and located at the southern entrance of the Park at 6,200-foot elevation. It began operating in January 1987, and was shut down due to lack of funding in August 2024. This is was a seasonal-only site that monitored ozone and meteorology from May 31st to October 31st each year. The purpose of the site was to demonstrate the ozone concentrations in a rural, mountainous area.

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):	1,900; 2022*
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 2022



Shafter

The Shafter monitoring site is operated by CARB and the District 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 upwind of Bakersfield in an area not 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):	3,742; 2024*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest roads: Central Ave and Walker St. Source: Kern Council of Governments Traffic Counts Data System.



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):	8,609; 2024*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for roads: Manor St near the air monitoring station. Source: Kern Council of Governments, Traffic Counts Data System.



Bakersfield-Golden / M St

The Bakersfield-Golden / M St monitoring site is operated by the District and is located in the Bakersfield, CA metropolitan area. It began operating in 1994 but was moved to the current location on the same property 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):	4,344; 2023*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest roads: 30th St at Golden State Ave. Source: Kern Council of Governments. Traffic Counts Data System.



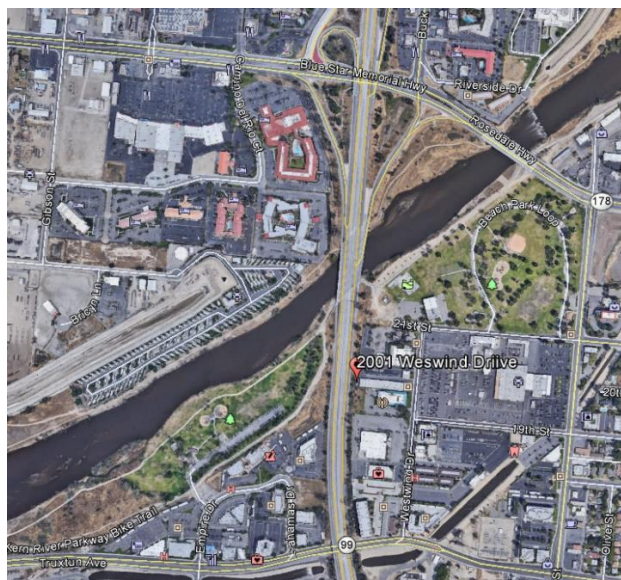
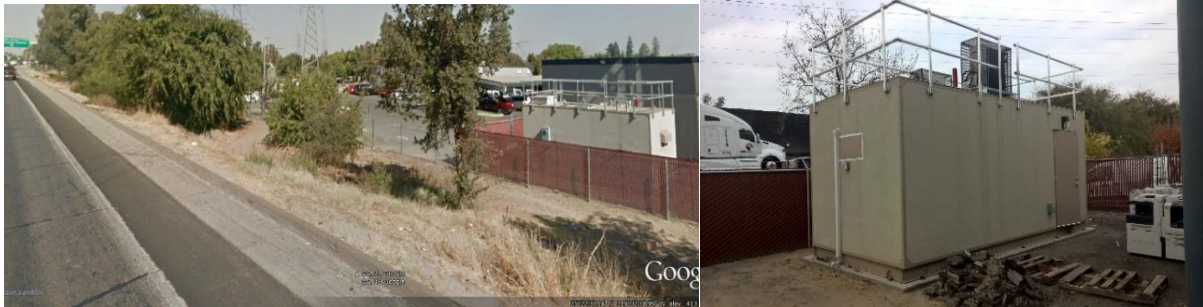
Bakersfield-Westwind

The Bakersfield-Westwind near-road NO2 monitoring site is operated by the District 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 NO2 concentrations near a high traffic roadway in an urban area. 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):	114,000; 2023* 3,956; 2023**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Kern

* Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2023)

** Traffic count for Westwind Drive near the air monitoring station; Source: Kern Council of Governments Traffic Counts Data System.

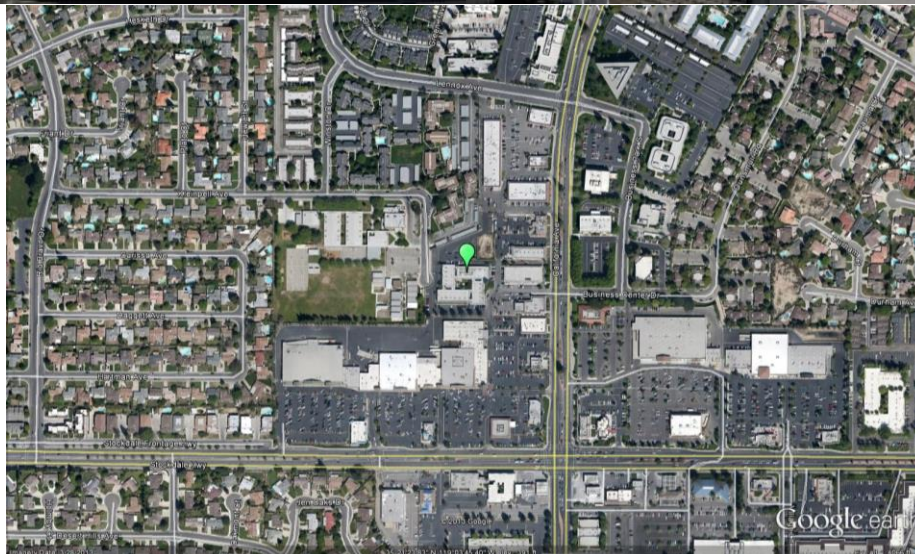


Bakersfield-California

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):	33,769; 2023*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr
 Source: Kern Council of Governments Traffic Counts Data System.



Bakersfield-Muni

The Bakersfield-Muni site is located in the Bakersfield, CA metropolitan area and is operated by the District. 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):	19,392; 2024* 5,040; 2023**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr. and Watts Dr. Source: Kern Council of Governments Traffic Counts Data System.

**Traffic count for road adjacent to monitoring station: Watts Dr. between S Union Ave and Short St Source: Kern Council of Governments Traffic Counts Data System.



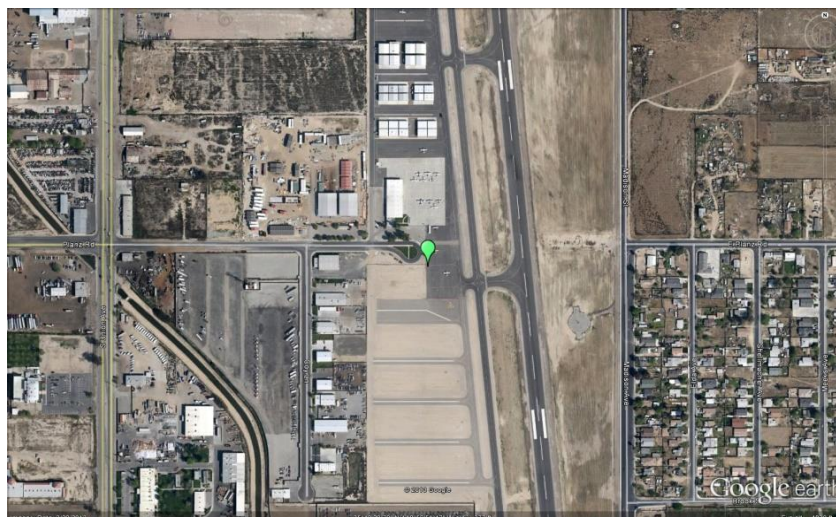
Bakersfield-Airport (Planz)

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 intended 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):	15,502; 2023* 1,041; 2023**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest cross street: S. Union Ave between E. Planz Rd and E White Lane. Source: Kern Council of Governments Traffic Counts Data System.

**Traffic count for monitoring station's street address E. Planz Rd. Source: Kern Council of Governments Traffic Counts Data System.

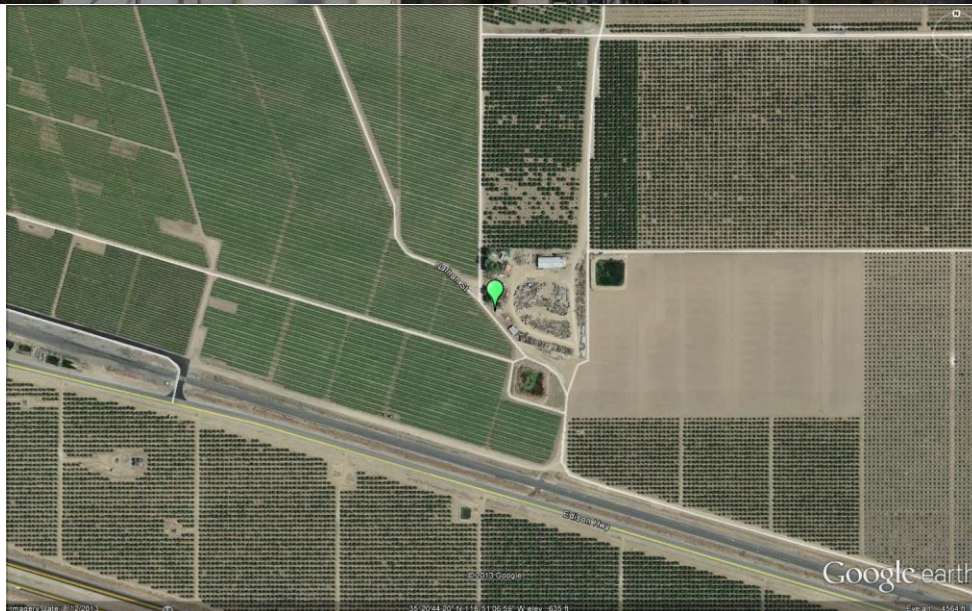


Edison

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, Edison CA 93320
Geographic Coordinates:	35.3456 N, -118.8518 W
Distance to road (meters):	450 m (south)
Traffic Count (AADT; Year):	2,753; 2020*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest roads: Edison Hwy and Comanche Dr.
 Source: Kern Council of Governments Traffic Counts Data System.

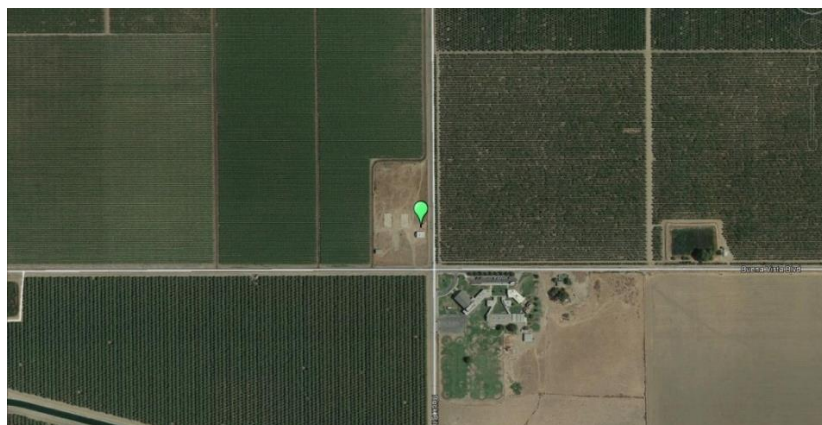


Arvin-Di Giorgio

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 serve as a PAMS Type 3 site, which would monitor maximum ozone concentrations and transport from upwind urban areas. PAMS equipment is not currently operating at this station. The District and CARB will review resuming Type 3 PAMS monitoring at this site.

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):	636; 2022*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for Buena Vista Blvd east of Tejon Hwy. Source: Kern Council of Governments Traffic Counts Data System.



Maricopa

The Maricopa monitoring site is operated by the District 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):	442; 2023*
Ground Cover:	Gravel, dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest roads: Union St at California St. Source: Kern Council of Governments Traffic Counts Data System.

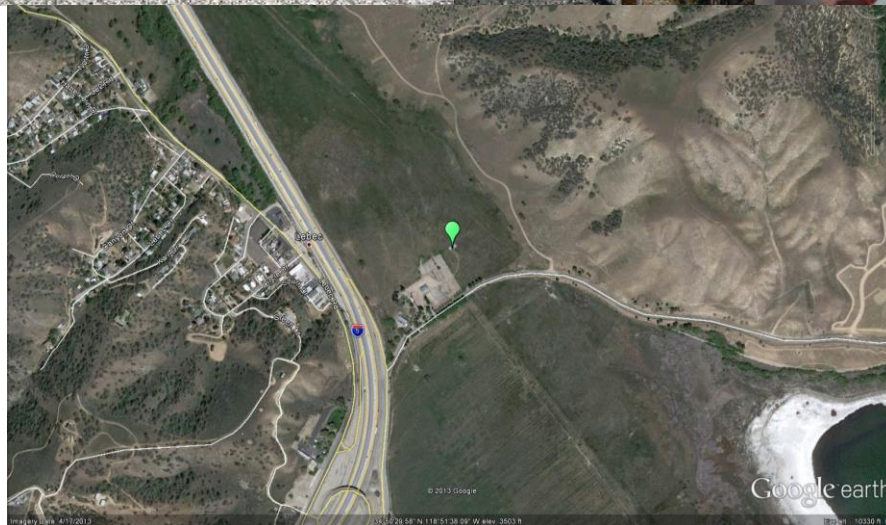


Lebec

In 2004, the Tejon Ranch established the Lebec monitoring station 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. PM2.5 from the site is used in the winter season to inform curtailment declarations for the District’s residential wood burning program for the Greater Frazier Park Area.

Site name:	Lebec
AQS ID:	06-029-2009
County:	Kern
Street Address:	1275 Beartrap Rd, Lebec, CA 93243
Geographic Coordinates:	34.8415 N, -118.8610 W
Distance to road (meters):	300 m (west)
Traffic Count (AADT; Year):	525; 2022*
Ground Cover:	Gravel, vegetative
Representative Statistical Area (CBSA):	Bakersfield

*Traffic count for nearest roads: Lebec Rd and Interstate 5. Source: Kern Council of Governments Traffic Counts Data System.



Tribal Sites

Tribal sites are operated under the Tribal Authority Rule, which is essential to tribal implementation of the federal Clean Air Act. Since tribal sites are not part of the District’s jurisdiction, detailed site information for tribal monitors is not be provided in Appendix B of the District’s Network Plan.

Table Mountain

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):	56,000; 2022*
Ground Cover:	Dirt
Representative Statistical Area (CBSA):	Fresno-Madera

*Traffic count for nearest roads: CA Route 41 and Friant Rd. Source: Caltrans 20122

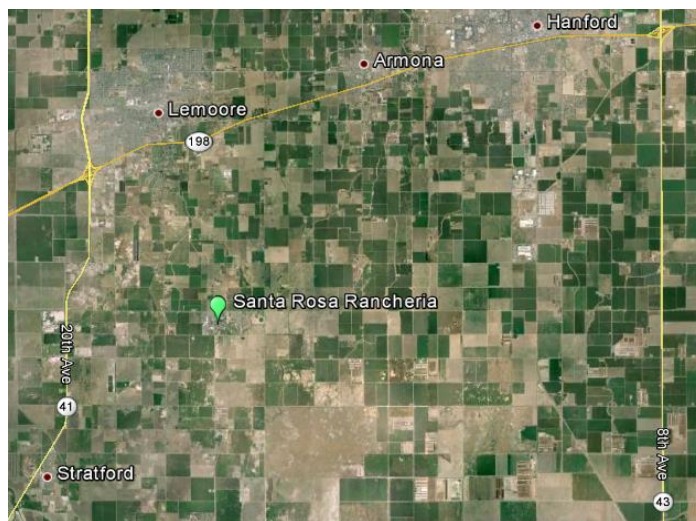
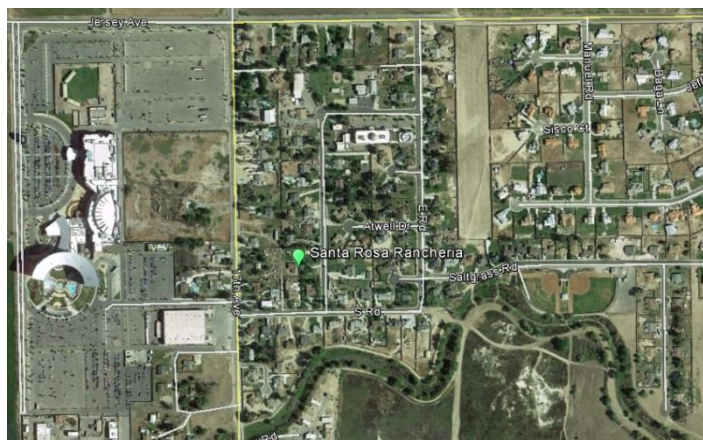


Santa Rosa Rancheria

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

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



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**Appendix B:
Detailed Site Information**

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List of Abbreviations

Site Type	
PE	Population Exposure
HC	Highest Concentration
RT	Regional Transport
GB	General/Background
SO	Source Oriented
WRI	Welfare Related Impacts
Spatial Scale	
N	Neighborhood
U	Urban
R	Regional
MC	Microscale
MD	Middle Scale
Basic Monitoring Objective	
NC	NAAQS Comparison
RS	Research
TP	Timely/Public
N/A	Not Applicable
AADT	Annual Average Daily Traffic

Site Name	Stockton-University Park
AQS ID (XX-XXX-XXXX)	06-077-1003
Representative statistical area Name (i.e. MSA, CBSA, other)	Stockton-Lodi
County	San Joaquin
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	10/11/2021
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM, CO, NO ₂ , Toxics
Meteorological Parameters	Outdoor temperature, Relative humidity, Wind Speed, Wind Direction
Address	702 N. Aurora Street, Stockton CA 95202
GPS Coordinates (decimal degrees)	37.96158 N, -121.28141 W
Distance to roadways	60 m (north)
Traffic Count/Year	4,000 / 2019 (Traffic count for nearest cross road: Park St; Source: City of Stockton 2020 Traffic Volume Flow Map)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Stockton-University Park (1)						
Pollutant	Ozone	CO	NO2	PM10 STP	PM2.5	Meteorology
Parameter code	44201	42101	42602	81102	88101	Many
Spatial scale	N	N	N	N	N	R
Site type	PE	PE	PE	HC	HC, PE	GB
Monitoring objective	NC, RS, TP	NC, RS, TP	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	Other
Network affiliation	None	None	None	None	None	None
FRM/FEM/ARM/Other	FEM	FEM	FRM	FEM	FEM	Other
POC	1	3	2	5	3	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	Y	N/A
Instrument manufacturer and model	Teledyne API 400	Teledyne API 300 EU	Thermo 42iQ	Met One BAM 1020	Met One BAM 1020	Vaisala HMP-155 (OT/RH); RM Young 81000 (WS/WD/3DT)
Analysis method	UV	Instrumental	Chemiluminescence	Beta Attenuation	Beta Attenuation	N/A
Method code	593	067	074	122	170	N/A
Monitoring start date (MM/DD/YYYY)	11/05/2021	11/05/2021	11/05/2021	11/05/2021	11/05/2021	11/05/2021
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)	5.7	5.7	5.7	5.7	5.7	

Stockton-University Park (1)						
Pollutant	Ozone	CO	NO2	PM10 STP	PM2.5	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	2.0	2.0	2.0	2.0 m	2.0 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	2.0	2.0	2.0	2.0 m	2.0 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions
Distance from the drip line of closest tree(s)	>10	>10	>10	>10	>10	>10
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	N/A	N/A	N/A
Residence time (seconds)	10.8	10.8	10.8	N/A	N/A	N/A

Stockton-University Park (1)						
Pollutant	Ozone	CO	NO2	PM10 STP	PM2.5	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lo-vol? If yes, list distance (meters) and instrument(s).	N/A	N/A	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 hi-vol? If yes, list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	No	N/A
Frequency of flow rate verification for manual PM samplers audit	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	Semi-Monthly	Semi-Monthly	N/A
Frequency of one-point QC check (gaseous)	Daily	Daily	Daily	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	2/23/24	N/A - Instrument broken	2/23/24	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	2/23/24; 8/22/24	2/23/24; 8/22/24	N/A
Changes planned within the next 18 months (Y/N)	N	Y – Discontinue CO monitoring; timing dependent on EPA action on CARB 2024 CO SIP Revision	N	N	N	N

Stockton-University Park (2)		
Pollutant	Toxics	Toxics
Parameter code	Many	Many
Spatial scale	N	N
Site type	PE	PE
Monitoring objective	RS, TP	RS, TP
Monitor type	Many	Many
Network affiliation	CA Air Toxics	CA Air Toxics
FRM/FEM/ARM/Other	Other	Other
POC	Many	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A
Instrument manufacturer and model	Xontech 924	Met One T-SASS
Analysis method	Many	Many
Method code	Many	Many
Monitoring start date (MM/DD/YYYY)	1/1/2024	10/4/2024
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1 in 12	1 in 12
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31
Probe/Inlet height above ground (meters)	6.8	6.8
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0	2.0
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No Obstructions	No Obstructions

Stockton-University Park (2)		
Pollutant	Toxics	Toxics
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No Obstructions	No Obstructions
Distance from the drip line of closest tree(s)	>10	>10
Distance to furnace or incinerator flue (meters)	N/A	N/A
Distance between collocated monitors (meters)	>2	>2
Unrestricted airflow (degrees)	360	360
Probe material (Teflon, etc.)	N/A	N/A
Residence time (seconds)	0	0
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the level? If yes, 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 level? If yes, 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)	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	2/23/2024, 10/2/2024	10/2/2024
Changes planned within the next 18 months (Y/N)	Y	N

Site Name	Tracy-Airport
AQS ID (XX-XXX-XXXX)	06-077-3005
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	1/1/2006
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	5,113/2020 (Traffic count for nearest roads: Linne Rd and Corral Hollow Rd) Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt and Gravel

Tracy-Airport (1)					
Pollutant	Ozone	PM2.5	PM10	NO2	Meteorology
Parameter code	44201	88502	81102	42602	Many
Spatial scale	R	R	N	N	R
Site type	RT	RT	PE	PE	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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	Other	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne T400	Met One BAM 1020	Met One BAM 1020	Teledyne T200	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	Beta-Attenuation	CL	Many
Method code	087	731	122	099	Many
Monitoring start date (MM/DD/YYYY)	01/01/2006	09/27/2006	01/01/2021	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

Pollutant	Ozone	PM2.5	PM10	NO2	Meteorology
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)	5.8m	5.7 m	5.6 m	5.8 m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	1.9 m	1.8 m	2.0 m	10 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	N/A
Distance from the drip line of closest tree(s)	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
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	Ozone	PM2.5	PM10	NO2	Meteorology
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	8.84	N/A	N/A	9.51	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	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 lo-vol? If yes, list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A

Pollutant	Ozone	PM2.5	PM10	NO2	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, 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)	11/19/2024	N/A	N/A	11/19/2024	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	5/14/2024, 11/19/2024	5/14/2024, 11/19/2024	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	Y, adding Sonic Anemometer

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) Distance from monitoring station to edge of nearest traffic lane (Fishback Rd). ~390 m: Distance from monitoring station to nearest road with available traffic counts (Airport Way between Lathrop Rd and Hwy 120)
Traffic Count/Year	20,487/2020 (Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120. Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Manteca				
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Other	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Yes	N/A	N/A	N/A
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	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	Beta Attenuation	Beta Attenuation	Many
Method code	170	122	122	Many
Monitoring start date (MM/DD/YYYY)	09/12/2019	09/12/2019	09/12/2019	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
Probe height (meters)	3.7 m	3.6 m	3.6 m	10 m
Distance from supporting structure (meters)	1.9m	1.8 m	1.8 m	10 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

Manteca				
Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
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 the drip line of closest tree(s)	57m	58.7m	58.7m	59m
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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
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 level? If yes, 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	N/A	N/A	N/A	N/A

Manteca				
Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
within 2m of the hivol? If yes, list distance (meters) and instrument(s).				
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)	5/14/2024, 11/18/2024	5/14/2024, 11/18/2024	5/14/2024, 11/18/2024	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	Y, adding Sonic Anemometer

Site Name	Modesto-14th 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	1/1/1981
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM, CO, PM2.5 Speciation (CSN Supplemental)
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): Distance from monitoring station to edge of nearest traffic lane (14 th Street). ~980 m: Distance from monitoring station to nearest road with available traffic counts (H Street/Rte 99)
Traffic Count/Year	132,000 / 2022 (Traffic count for roads: H Street / Rte 99, Source: Caltrans 2022 AADDT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Modesto-14 th St (1)			
Pollutant	Ozone	PM10 STP	PM2.5
Parameter code	44201	81102	88101
Spatial scale	N	N	N
Site type	GB	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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	Y
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020	Met One BAM 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)	8	4.4 m	4.4 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	2.0 m	2.0 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No obstructions	No obstructions	No obstructions
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	No obstructions	No obstructions	No obstructions
Distance from the drip line of closest tree(s)	>10	>10	>10
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360

Modesto-14th St (1)			
Pollutant	Ozone	PM10 STP	PM2.5
Probe material (Teflon, etc.)	Teflon	N/A	N/A
Residence time (seconds)	9.4	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lo-vol? If yes, 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 hi-vol? If yes, 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	Semi-Monthly	Semi-Monthly
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A
Last Annual Performance Evaluation (gaseous)	10/30/24	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	5/13/24, 10/30/24	5/13/24, 10/30/24
Changes planned within the next 18 months (Y/N)	N	N	N

Modesto-14 th St (2)			
Pollutant	PM2.5 Speciation	CO	Meteorology
Parameter code	88502	42101	Many
Spatial scale	N	N	R
Site type	PE	PE	GB
Monitoring objective(s)	RS	NC, TP	RS, TP
Monitor type	SLAMS	SLAMS	Other
Network affiliation	CSN Supplemental	None	None
FRM/FEM/ARM/Other	Other	FEM	Other
POC	5	3	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A
Instrument manufacturer and model	Met-One SASS / Super SASS	Teledyne API 300	Vaisala HMP-155 (OT/RH); RM Young 81000 (WS/WD/3DT)
Analysis method	Gravimetric	IR	N/A
810	143	593	Many
Monitoring start date (MM/DD/YYYY)	01/14/2002	01/01/13	01/01/95
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:6	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)	6.1	8	8
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8	2	None
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	No obstructions	No obstructions

Modesto-14 th St (2)			
Pollutant	PM2.5 Speciation	CO	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1 (Met tower)	None	None
Distance from the drip line of closest tree(s)	40	>10	>10
Distance to furnace or incinerator flue (meters)	Approx. 40 m	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters)	2.4 (URG 3000n) 4.5 (Partisol) 3.0 (BAM-10)	N/A	N/A
Unrestricted airflow (degrees)	Est. 350	360	360
Probe material (Teflon, etc.)	N/A	Teflon	N/A
Residence time (seconds)	N/A	8.6	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Annually	N/A	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	Daily	N/A
Last Annual Performance Evaluation (gaseous)	N/A	10/30/24	N/A
Last two semi-annual flow rate audits for PM monitors	Audit dates for 2024 not available due to power quality issues that occurred at the site July/August 2024. Sampler was out of commission until mid-December 2024. CARB submitted a Corrective Action	N/A	N/A

Modesto-14 th St (2)			
Pollutant	PM2.5 Speciation	CO	Meteorology
	Notification (CAN) form internally for this issue.		
Changes planned within the next 18 months (Y/N)	N	Y – Discontinue CO monitoring; timing dependent on EPA action on CARB 2024 CO SIP Revision	N

Site Name	Turlock
AQS ID (XX-XXX-XXXX)	06-099-0006
Representative statistical area Name (i.e. MSA, CBSA, other)	Modesto
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
Site Start Date	4/1/1992
Pollutant Parameters	Ozone, PM10 FEM, 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					
Pollutant	Ozone	PM2.5	PM10 STP/LC	NO2	Meteorology
Parameter code	44201	88101	81102 / 85101	42602	Many
Spatial scale	N	N	N	N	R
Site type	PE	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	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	FEM	FEM	Other
POC	1	3	3	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary	Primary	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne T400	Met One BAM 1020	Met One BAM 1020	Teledyne T200	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	Beta Attenuation	Chem.	Many
Method code	087	170	122	099	Many
Monitoring start date (MM/DD/YYYY)	04/01/2000	09/14/2006	02/09/2022	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	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)	5.5 m	5.5 m	5.6 m	5.5 m	8.9 m

Turlock					
Pollutant	Ozone	PM2.5	PM10 STP/LC	NO2	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9 m	2 m	2.1 m	1.9 m	8.9 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	N/A
Distance from the drip line of closest tree(s)	20.0 m	21.5 m	20.0 m	20.0 m	19.0 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 ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	5.78	N/A	N/A	7.13	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	Bi-weekly	N/A	N/A

Turlock					
Pollutant	Ozone	PM2.5	PM10 STP/LC	NO2	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lo-vol? If yes, 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, 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)	10/22/2024	N/A	N/A	10/22/2024	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	4/29/2024. 10/22/2024	4/29/2024. 10/22/2024	N/A	N/A
Changes planned within the next 18 months (Y/N)	Y, New FRM Monitor	N	N	N	Y, adding Sonic Anemometer

Site Name	Merced-M St
AQS ID (XX-XXX-XXXX)	06-047-2510
Representative statistical area Name (i.e. MSA, CBSA, other)	Merced
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	SJVAPCD
Reporting Agency	SJVAPCD
Site Start Date	4/1/1999
Pollutant Parameters	PM10 FEM, PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
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	51,000/2022 (Traffic count for nearest roads: R Street/Rte 99, Source: Caltrans 2022 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, gravel

Merced-M St			
Pollutant	PM10 STP / LC	PM2.5	Meteorology
Parameter code	81102 / 85101	88101	Many
Spatial scale	N	N	N
Site type	PE	PE	HC, PE
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP
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	3	3	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	ITP- Met One 598B, WDV- RM Young 92000, WSV- RM Young 92000
Analysis method	Beta Attenuation	Beta Attenuation	Many
Method code	122	170	130
Monitoring start date (MM/DD/YYYY)	03/04/2022	03/04/2022	01/01/2024
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	N/A
Probe height (meters)	9.2 m	9.3 m	9.3 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	2.2 m	2.2 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 the drip line of closest tree(s)	30 m	30 m	30 m

Merced-M St			
Pollutant	PM10 STP / LC	PM2.5	Meteorology
Distance to furnace or incinerator flue (meters)	46.5 m	46 m	46 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)	360	360	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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
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)	Bi-weekly	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, 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 hi-vol? If yes, 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)	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)	5/14/2024, 10/25/2024	5/14/2024, 10/25/2024	N/A
Changes planned within the next 18 months (Y/N)	N	N	Y, adding Sonic Anemometer

Site Name	Merced-Vierra
AQS ID (XX-XXX-XXXX)	06-047-2024
Representative statistical area Name (i.e. MSA, CBSA, other)	Merced
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	01/01/2024
Pollutant Parameters	Ozone, PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	3076 E. Childs Ave., Merced, CA 95341
GPS Coordinates (decimal degrees)	37.289732 N, -120.42971 W
Distance to roadways (meters)	223 m (S)
Traffic Count/Year	42,500/2019 (Traffic count for nearest roads: Childs Avenue/Rte 99, Source: Caltrans 2019 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Vegetative, dirt and gravel

Merced-Vierra				
Pollutant	Ozone	PM2.5	NO2	Meteorology
Parameter code	44201	88101		
Spatial scale	N	N		
Site type	HC, PE	PE		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP		
Monitor type	SLAMS	SLAMS		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None		
FRM/FEM/ARM/Other	FEM	FEM		
POC	1	3		
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary		
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y		
Instrument manufacturer and model	Teledyne T400	Met One BAM 1020		
Analysis method	UV	Beta Attenuation		
Method code	087	170		
Monitoring start date (MM/DD/YYYY)	01/01/2024	01/01/2024		
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)	4.4m	4.64m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9m	2.1m		
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)	137.5 m	136.5 m		
Distance from the drip line of closest tree(s)	55m	53m		
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		

Merced-Vierra				
Pollutant	Ozone	PM2.5	NO2	Meteorology
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A		
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	11.04	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	Bi-weekly		
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, list distance (meters) and instrument(s).	N/A	No		
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, 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)	10/25/2024	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	4/29/2024, 10/25/2024		
Changes planned within the next 18 months (Y/N)	N	N	Y – Parameter will resume at the replacement Vierra site.	Y – Parameter will resume at the replacement Vierra site.

Site Name	Madera-City
AQS ID (XX-XXX-XXXX)	06-039-2010
Representative statistical area Name (i.e. MSA, CBSA, other)	Madera
County	Madera
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	7/16/2010
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM,
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	640/2023 (Traffic count for nearest roads: Avenue 14 west of Road 29, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2023 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, dirt, and vegetative

Madera-City					
Pollutant	Ozone	PM2.5	PM10 LC	PM10 STP	Meteorology
Parameter code	44201	88101	85101	81102	Many
Spatial scale	N	N	N	N	N
Site type	PE	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS, TP	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	FRM	FEM	FEM	FEM	Other
POC	1	3	3	3	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary	Other	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A	N/A	N/A
Instrument manufacturer and model	TAPI T265	Met One BAM 1020	Met One BAM 1020	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	Chem	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
Method code	199	170	122	122	Many
Monitoring start date (MM/DD/YYYY)	12/01/2020	09/20/2019	09/20/2019	09/20/2019	06/01/2010
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)	4.9 m	5 m	4.9 m	4.9 m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8 m	1.9 m	1.8 m	1.8 m	10 m
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

Madera-City					
Distance from the drip line of closest tree(s)	13.8 m	15.5 m	14 m	14 m	14.5 m
Distance to furnace or incinerator flue (meters)	53m	53 m	53 m	53 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
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; NPAMS: VOCs, Carbonyls (seconds)	9.34	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	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	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 the hivol? If yes, list distance (meters) and instrument(s).	N/A	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, 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)	10/24/2024	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	4/29/2024, 10/24/2024	4/29/2024, 10/24/2024	4/29/2024, 10/24/2024	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	Y, adding Sonic Anemometer

Site Name	Madera-Pump Yard
AQS ID (XX-XXX-XXXX)	06-039-0004
Representative statistical area Name (i.e. MSA, CBSA, other)	Madera
County	Madera
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	In 2024, the SJVAPCD was contracted with Enthalpy Analytical: Speciated VOC
Reporting Agency	SJVAPCD
Site Start Date	7/1/1997
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	3,319/2021 (Traffic count for nearest roads: Avenue 7 west of Rte 99, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2023 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, paved

Madera-Pump Yard					
Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
Parameter code	44201	42602	Many	43102	Many
Spatial scale	U	U	N	U	R
Site type	GB	GB	PE	GB	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	FRM	FEM	Other	Other	Other
POC	1	1	1	1	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne T265	Teledyne T200	Entech Instruments	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	Chem.	Chem	GC	GC	Many
Method code	199	099	126	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	6.1 m	5.8 m	11.5 m

Madera-Pump Yard					
Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9 m	1.9 m	2.2 m	1.9 m	11.5 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)	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 the drip line of closest tree(s)	53 m	53 m	53 m	53 m	56 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 ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	12.76	13.18	9.71	13.44	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

Madera-Pump Yard					
Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
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 hivol? If yes, 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, 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)	11/20/2024	11/20/2024	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	Y, adding Sonic Anemometer

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	9/1/2009
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)	36.634225 N, -120.382331 W
Distance to roadways (meters)	200m (south)
Traffic Count/Year	1,450/2022 Raw traffic count for nearest roads: Adams Avenue and Route 33 (S. Derrick Avenue) Source: Caltrans 2022
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetative

Tranquillity			
Pollutant	Ozone	PM2.5	Meteorology
Parameter code	44201	88101	Many
Spatial scale	U	U	U
Site type	PE	GB	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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A
Instrument manufacturer and model	Teledyne T400	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 (vertical and horizontal, if applicable, should be provided)	1.8 m	2.1 m	10.6 m
Distance from obstructions on roof. Include horizontal distance + vertical	N/A	N/A	N/A

Tranquillity			
Pollutant	Ozone	PM2.5	Meteorology
height above probe for obstructions nearby. (meters)			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	78.5m	76.6m	76.2m
Distance from the drip line of closest tree(s)	60.0m	61.5m	63.0m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
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)	355	355	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	8.81	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 level? If yes, list distance (meters) and instrument(s).	N/A	No	N/A

Tranquillity			
Pollutant	Ozone	PM2.5	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, 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)	10/14/2024	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	4/30/2024, 10/14/2024	N/A
Changes planned within the next 18 months (Y/N)	Y, New FRM Monitor	N	Y, adding Sonic Anemometer

Site Name	Fresno-Sierra Sky Park
AQS ID (XX-XXX-XXXX)	06-019-0242
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	1/1/1987
Pollutant Parameters	Ozone, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	7252 N Blythe Ave., Fresno, CA 93722
GPS Coordinates (decimal degrees)	36.8405 N, -119.8740 W
Distance to roadways (meters)	12 m: Distance from monitoring station to edge of nearest traffic lane (W. Chenault Avenue). ~342 m: Distance from monitoring station to nearest road with available traffic counts (Spruce Avenue east of Milburn Avenue)
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			
Pollutant	Ozone	NO2	Meteorology
Parameter code	44201	42602	Many
Spatial scale	N	N	N
Site type	PE	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	FRM	FEM	Other
POC	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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.	Chem	Many
Method code	199	099	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

Pollutant	Ozone	NO2	Meteorology
Probe height (meters)	4.4m	4.4m	9m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	5.54m	5.54m	9m
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 the drip line of closest tree(s)	20.7 m	20.7 m	18 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
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)	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.60	10.23	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A

Pollutant	Ozone	NO2	Meteorology
Frequency of flow rate verification for automated PM analyzers (routine checks)	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, 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, 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)	2/8/2024	2/8/2024	2/8/2024
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
Changes planned within the next 18 months (Y/N)	Y – Efforts to remove the vegetation obstruction expected to result in discontinuing the use of the “SX” (“Does Not Meet Siting Criteria”) quality assurance qualifier code.	Y – Efforts to remove the vegetation obstruction expected to result in discontinuing the use of the “SX” (“Does Not Meet Siting Criteria”) quality assurance qualifier code.	Y, adding Sonic Anemometer and Efforts to remove the vegetation obstruction expected to result in discontinuing the use of the “SX” (“Does Not Meet Siting Criteria”) quality assurance qualifier code.

Site name	Clovis-Villa	
AQS ID (XX-XXX-XXXX)	06-019-5001	
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)	In 2024, the SJVAPCD was contracted with Enthalpy Analytical: Speciated VOC	
Reporting Agency	SJVAPCD:, PM2.5 FEM, , PM10 FEM, Ozone, CO, NO ₂ , NMH, Speciated VOC, Meteorology	SJVAPCD contracts out so Reporting lab varies from year to year: Speciated VOC
Site Start Date	9/1/1990	
Pollutant Parameters	Ozone, , PM10 FEM, PM2.5 FEM, CO, NO ₂ , NMH, Speciated VOC	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative 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	13,248; 2017* (Combined ADT (northbound and southbound Villa Avenue between Barstow Avenue and Bullard Avenue). Source: City of Clovis, Engineering Division, Traffic Information: Speed Limits and Traffic Counts Viewer	
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved	

Clovis-Villa (1)				
Pollutant	Ozone	PM2.5	PM10 LC	PM10 STP
Parameter Code	44201	88101	85101	81102
Spatial scale	N	N	N	N
Site type	HC	HC	HC	HC
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS, TP	NC, RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	None	None	None
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM
POC	1	3	3	3
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary	Primary	Primary
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A	N/A
Instrument manufacturer and model	Teledyne API T265	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020
Analysis method	Chem.	Beta Attenuation	Beta Attenuation	Beta Attenuation
Method code	199	170	122	122
Monitoring start date (MM/DD/YYYY)	05/01/2017	07/01/2020	01/01/2020	01/01/2020
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)	6.2 m	5.9 m	6.3 m	6.3 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2 m	1.8 m	2.2 m	2.2 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

Clovis-Villa (1)				
Pollutant	Ozone	PM2.5	PM10 LC	PM10 STP
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 the drip line of closest tree(s)	65.4 m	66 m	66.7 m	66.7 m
Distance to furnace or incinerator flue (meters)	16 m	16.6 m	17.3 m	17.3 m
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	6.91	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, list distance (meters) and instrument(s).	N/A	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, list distance (meters) and instrument(s).	N/A	No	No	No
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A

Clovis-Villa (1)				
Pollutant	Ozone	PM2.5	PM10 LC	PM10 STP
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-weekly	Bi-weekly	Bi-weekly
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	2/7/2024	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	2/7/2024, 8/8/2024	2/7/2024, 8/8/2024	2/7/2024, 8/8/2024
Changes planned within the next 18 months (Y/N)	N	N	N	N

Clovis-Villa (2)					
Pollutant	CO	NO ₂	Speciated VOC	NMH	Meteorology
Parameter code	42101	42602	Many	43102	Many
Spatial scale	N	N	N	N	N
Site type	PE	HC	PE	HC	PE
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Thermo 48i-TLE	Teledyne T200	Entech Instruments 1900	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)	6.2 m	6.2 m	5.9 m	6.2 m	10 m

Clovis-Villa (2)					
Pollutant	CO	NO ₂	Speciated VOC	NMH	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2 m	2 m	1.8 m	2 m	10 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	N/A m
Distance from the drip line of closest tree(s)	65.4 m	65.4 m	37 m	65.4 m	67 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
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	6.33	7.05	5.0	9.36	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, 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

Clovis-Villa (2)					
Pollutant	CO	NO₂	Speciated VOC	NMH	Meteorology
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)	2/7/2024	2/7/2024	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	Y, adding Sonic Anemometer

Site Name	Fresno-Garland
AQS ID (XX-XXX-XXXX)	06-019-0011
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	12/23/2011
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM, PM2.5 FRM, PM10-2.5 FEM, PM2.5 Speciation (STN), CO, NO ₂ , NO _y , SO ₂ , Toxics
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	10,745/2018 (Raw traffic count in a 24-hour period: First Street north of Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2018. (latest available))
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Fresno-Garland (1)						
Pollutant	Ozone	CO	NO2	SO2	NOy	Toxics
Parameter code	44201	42101	42602	42401	42600	Many
Spatial scale	U	U	U	U	U	N
Site type	PE	PE	PE	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

Fresno-Garland (1)						
Pollutant	Ozone	CO	NO2	SO2	NOy	Toxics
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	Primary	Primary	Other
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 400	API 300 EU	Thermo 421Q	Thermo 43IQ	Instrumental	Xontech 924
Analysis method	UV	UV	UV	UV	Chem. Teledyne API 200EU/501	Many
Method code	087	593	74	560	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)	6.8	6.6	6.8	6.6	6.2	5.8
Distance from supporting structure (meters) (vertical and horizontal, if applicable, should be provided)	2.8	2.8	2.8	2.8	N/A	2.8
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	None

Fresno-Garland (1)						
Pollutant	Ozone	CO	NO2	SO2	NOy	Toxics
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	None
Distance from the drip line of closest tree(s)	None	None	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None	None	None
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)	12.6	17.2	13.2	17.9	< 20 seconds	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, 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)	5 Times/Week	5 Times/Week	5 Times/Week	5 Times/Week	5 Times/Week	5 Times/Week
Last Annual Performance Evaluation (gaseous)	2/22/24	2/22/24	2/22/24	2/22/24	Not audited by CARB-QAS	2/22/24
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	PM10 STP / LC	PM2.5	PM10-2.5
Parameter code	88101	81102 / 85101	88502	86101
Spatial scale	N	N	N	N
Site type	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS	NC, RS, TP / RS, TP	NC, RS	NC, RS
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation	NCore	NCore	NCore	NCore
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM
POC	2	3	3	3
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	QA Collocated	Primary	Primary	Other
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Y	N/A	Y	N/A
Instrument manufacturer and model	R&P 2025	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020
Analysis method	Sequential	Beta Attenuation	Beta Attenuation	Beta Attenuation
Method code	145	122	170	185
Monitoring start date (MM/DD/YYYY)	1/1/2012	1/1/2012	1/1/2012	1/1/2012
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	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/Inlet height above ground (meters)	6.0	6.3	6.3	6.3
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.2	2.5	2.5	2.5
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None

Pollutant	PM2.5	PM10 STP / LC	PM2.5	PM10-2.5
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None
Distance from the drip line of closest tree(s)	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None
Distance between collocated monitors (meters)	1.0	1.0	1.0	N/A
Unrestricted airflow (degrees)	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 hivol? If yes, list distance (meters) and instrument(s).	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, 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	Bi-weekly	Bi-weekly	Bi-weekly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	BI-weekly	BI-weekly	Bi-weekly
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	2/22/24, 8/9/24	2/22/24, 8/9/24	2/22/24, 8/9/24	-
Changes planned within the next 18 months (Y/N)	N	N	N	N

Fresno-Garland (3)				
Pollutant	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation	Meteorology
Parameter code	63102	68101	88103	Many
Spatial scale	N, U	N, U	N, U	U
Site type	PE	PE	GB	GB
Monitor objective	RS	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation	NCore, CSN STN	NCore, CSN STN	NCore, IMPROVE	NCore
FRM/FEM/ARM/Other	Other	Other		Other
POC	5	5	1	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A
Instrument manufacturer and model)	Met-One SASS	URG 3000-N	IMPROVE Module A with Cyclone Inlet-Teflon Filter, 2.2 aq. Cm.	Vaisala HMP-155 (OT/RH), RM Young 81000 (WS/WD/3DT)
Method code	898	838	800	Many
Analysis method	Filter Absorption at 633nm by HIPS	Calculation	X-Ray Fluorescence	Many
Monitoring start date (MM/DD/YYYY)	1/1/2019	11/20/2015	01/25/2012	12/23/2011
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:3	1:3	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 above ground (meters)	5.5	5.5	9.5	4.5
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2	2	2	8
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	10	10	15	None

Pollutant	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	11	9	None	None
Distance from the drip line of closest tree(s)	11	9	N/A	None
Distance to furnace or incinerator flue (meters)	None	None	None	None
Distance between collocated monitors (meters)	2.5	2.5	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	N/A	Teflon
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 hivol? If yes, 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, list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Bi-weekly	Bi-weekly	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	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	2/22/24	Per CARB update, URGs were not audited.	Not Auditable	N/A
Changes planned within the next 18 months (Y/N)	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)	SJVAPCD
Reporting Agency	SJVAPCD
Site Start Date	12/31/1999
Pollutant Parameters	PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
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		
Pollutant	PM2.5	Meteorology
Parameter code	88101	Many
Spatial scale	N	N
Site type	PE	PE
Basic monitoring objective(s)	NC,RS, TP	NC, RS
Monitor type	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None
FRM/FEM/ARM/Other	FEM	Other
POC	3	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Y	N/A
Instrument manufacturer and model	Met One BAM 1020	ITP- Met One 598B, WDV- RM Young 92000, WSV- RM Young 92000
Analysis method	Beta Attenuation	Many
Method code	170	130
Monitoring start date (MM/DD/YYYY)	3/11/2022	01/01/2024
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)	13.65 m	13.7 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9 m	2.0 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	53.4 m NE 5.1 m above vertical	N/A
Distance from the drip line of closest tree(s)	51.8 m NE	51.6 m NE

Fresno-Pacific		
Pollutant	PM2.5	Meteorology
Distance to furnace or incinerator flue (meters)	None	None
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Aluminum	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	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, 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, list distance (meters) and instrument(s).	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
Frequency of one-point QC check for gaseous instruments	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)	2/21/2024, 8/8/2024	N/A
Changes planned within the next 18 months (Y/N)	N	Y, adding Sonic Anemometer

Site Name	Fresno-Drummond
AQS ID (XX-XXX-XXXX)	06-019-0007
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	SJVAPCD: Ozone, NO2
Site Start Date	7/1/1984
Pollutant Parameters	Ozone, PM10 FEM, 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	31,167; 2019 (Daily traffic count: Jensen Ave north of Maple Ave. Source: Fresno Council of Governments, Planning Dept)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Fresno-Drummond				
Pollutant	Ozone	PM10 STP / LC	NO ₂	Meteorology
Parameter code	44201	81102 / 85101	42602	Many
Spatial scale	N	N	N	R
Site type	PE	PE	HC	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	FRM	FEM	FEM	Other
POC	1	3	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API T265	Met One BAM 1020	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.	Beta Attenuation	Chem.	Many
Method code	199	122	099	Many
Monitoring start date (MM/DD/YYYY)	05/01/2017	01/01/2022	03/01/2017	07/01/1984
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)	8.0 m	5.7 m	8.0 m	9.8 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	4.4 m	2.1 m	4.4 m	9.8 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

Fresno-Drummond				
Pollutant	Ozone	PM10 STP / LC	NO ₂	Meteorology
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 the drip line of closest tree(s)	24.9 m	27 m	24.9 m	36.4 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 ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	10.29	N/A	10.32	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 hivol? If yes, list distance (meters) and instrument(s).	N/A	None	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, 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	2/21/2024	N/A	2/21/2024	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	2/21/2024, 8/18/2024	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	Y, adding Sonic Anemometer

Site Name	Fresno-Foundry
AQS ID (XX-XXX-XXXX)	06-019-2016
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	1/1/2016
Pollutant Parameters	NO2, PM2.5 FEM, CO
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	122,000/2022 (Rte 99 and Jensen Avenue off-ramp, Source: Caltrans 2022)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Fresno-Foundry				
Pollutant	PM2.5	CO	NO₂	Meteorology
Parameter code	88101	42101	42602	Many
Spatial scale	MC	MC	MC	N
Site type	HC	HC	HC	PE
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)	Near-road	Near-road	Near-road	Near-road
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other
POC	3	1	1	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	N/A	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Y	N/A	N/A	N/A
Instrument manufacturer and model	Met One BAM 1020	Thermo 48i-TLE	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	Beta Attenuation	IR	CL	Many
Method code	170	554	212	Many
Monitoring start date (MM/DD/YYYY)	1/1/2020	1/1/2020	01/01/2016	01/01/2016
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)	5.1 m	5.08 m	5.08 m	5.3 m

Pollutant	PM2.5	CO	NO ₂	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.2 m	1.8 m	1.8 m	2.4 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)	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V
Distance from the drip line of closest tree(s)	25.0 m	22.8 m	22.8 m	19.1 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	N/A	10.60	10.23	N/A
Frequency of one-point QC check for gaseous instruments	N/A	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

Pollutant	PM2.5	CO	NO ₂	Meteorology
Frequency of flow rate verification for automated PM analyzers (routine checks)	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, 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, 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	2/6/2024	None	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)	2/6/2024, 8/8/2024	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	Y, adding Sonic Anemometer

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)	In 2024, the SJVAPCD was contracted with Enthalpy Analytical: 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	8,950/2015 (Raw traffic count in a 24-hour period for nearest roads: E. Manning Avenue *Raw traffic count in a 24-hour period for nearest roads: Manning Ave east of Smith. Source: Fresno COG Traffic Report, 2015.
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetation

Parlier					
Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
Parameter code	44201	42602	Many	43102	Many
Spatial scale	U	U	N	U	R
Site type	PE	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	Other	Other	Many
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS, RA40	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FRM	FEM	Other	Other	Other
POC	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne T265	Teledyne T200	Entech 1900	Synspec Alpha 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	Chemiluminescence	CChem.	GC	GC	Many
Method code	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
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

Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
Probe height (meters)	6.63m m	6.63m m	6.40m m	6.63m m	9.1 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.95m m	2.95m m	2.72m m	2.95m m	9.1 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	33.9 m	33.9 m	33.9 m	33.9 m	31.9 m
Distance from the drip line of closest tree(s)	49m m	49m m	49m m	49m m	47m 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 ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	10.93	10.23	4.69	8.67	N/A
Frequency of one-point QC check for gaseous instruments	daily	daily	daily	daily	N/A

Pollutant	Ozone	NO2	Speciated VOC	NMH	Meteorology
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 hivol? If yes, 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, 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)	10/17/2024	10/17/2024	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	Y, adding Sonic Anemometer

Site Name	Huron
AQS ID (XX-XXX-XXXX)	06-019-2008
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	9/1/2009
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Barometric Pressure
Address	16875 4 th St, Huron, CA 93234
GPS Coordinates (decimal degrees)	36.2363 N, -119.7656 W
Distance to roadways (meters)	100 m (north)
Traffic Count/Year	5,100/2022(Traffic count for nearest roads: Rte 269/Rte 198, Source: Caltrans 2022)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Huron		
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N	N/A
Instrument manufacturer and model	Met One BAM 1020	OTP – 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)	5.84 m	5.5 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.44 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 the drip line of closest tree(s)	13.5 m	N/A
Distance to furnace or incinerator flue (meters)	5 m S	N/A

Pollutant	PM2.5	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)	360	360
Probe material for reactivity gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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, 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, 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)	4/30/2024, 10/21/2024	N/A
Changes planned within the next 18 months (Y/N)	N	Y, adding Sonic Anemometer

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)	N/A
Reporting Agency	SJVAPCD: Ozone, PM10 FEM, PM2.5 FEM, NO2, Meteorology
Site Start Date	9/1/1993
Pollutant Parameters	Ozone, 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	2,828/2017 (Traffic count for nearest roads: S. Douty Street south of E. Lang Street, Source: City of Hanford Public Works - Traffic Counts Volume Summary 2017)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Hanford-Irwin (1)				
Pollutant	Ozone	PM2.5	NO₂	Meteorology
Parameter code	44201	88101	42602	Many
Spatial scale	N	N	N	N
Site type	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	FRM	FEM	FEM	Other
POC	1	3	1	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A	N/A
Instrument manufacturer and model	Teledyne T265	Met One BAM 1020	Teledyne T200	ITP- Hy-Cal 512AA3B, OT-Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C
Analysis method	Chem	Mass Monitor w/VSCC, BETA Attenuation	CL	Many
Method code	199	170	099	Many
Monitoring start date (MM/DD/YYYY)	1/1/2021	8/20/2020	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)	4.8m	4.6 m	4.8m	9.7 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.93m	1.72m	1.93m	9.7 m

Pollutant	Ozone	PM2.5	NO ₂	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)	22.0 m V, 2.5 m H	21.8m V, 2.5 m H	22.0 m V, 2.5 m H	N/A
Distance from the drip line of closest tree(s)	21.5m	18.7 m	21.5m	18.0m
Distance to furnace or incinerator flue (meters)	27.0m	25.7m	27.0m	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 ₂ /NO _y , SO ₂ , O ₃ ; 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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	10.41	N/A	10.70	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 level? If yes, list distance (meters) and instrument(s).	N/A	No	N/A	N/A

Pollutant	Ozone	PM2.5	NO2	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, 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)	10/24/2024	N/A	10/24/2024	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	5/13/2024, 10/24/2024	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	Y, adding Sonic Anemometer

Hanford-Irwin (2)		
Pollutant	PM10 LC	PM10 STP
Parameter code	85101	81102
Spatial scale	N	N
Site type	PE	PE
Basic monitoring objective(s)	RS, TP	NC, RS, TP
Monitor type	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None
FRM/FEM/ARM/Other	FEM	FEM
POC	3	3
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N	N
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020
Analysis method	Beta Attenuation	Beta Attenuation
Method code	122	122
Monitoring start date (MM/DD/YYYY)	8/20/2020	8/20/2020
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)	4.5m	4.5m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.6m	1.6m
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)	21.8m V, 2.5m H	21.8m V, 2.5 m H
Distance from the drip line of closest tree(s)	18.7 m	18.7 m
Distance to furnace or incinerator flue (meters)	25.7m	25.7m

Pollutant	PM10 LC	PM10 STP
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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)	Biweekly	Biweekly
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, 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)	5/13/2024, 10/24/2024	5/13/2024, 10/24/2024
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Corcoran-Patterson
AQS ID (XX-XXX-XXXX)	06-031-0004
Representative statistical area Name (i.e. MSA, CBSA, other)	Hanford-Corcoran
County	Kings
Collecting (Operating) Agency	SJVAPCD
Reporting Agency	SJVAPCD: PM2.5 FEM, PM10 FEM, Meteorology
Site Start Date	10/1/1996
Pollutant Parameters	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	3,400/2022 (Traffic count for nearest roads: JCT. Rte 43/Rte 137, Source: Caltrans 2022.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Corcoran-Patterson				
Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Parameter code	88101	85101	81102	Many
Spatial scale	N	N	N	N
Site type	PE	HC	HC	GB
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	8	8	8	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Y	N	N	N/A
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020	ITP- Hampshire Controls Corp. 125-50HLV, OT- Met One 060A-2, WD- Met One 020C, WS-Met One 010C
Analysis method	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
Method code	170	122	122	Many
Monitoring start date (MM/DD/YYYY)	01/13/2021	01/01/2021	01/01/2021	01/01/2017
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)	6.3 m	6.3m	6.3m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	2.0 m	2.0 m	10 m

Pollutant	PM2.5	PM10 LC	PM10 STP	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)	92.3 m H, 1.5 m V	90.5 m H, 1.5 m V	90.5 m H, 1.5 m V	90.5 m H 0.7 m V
Distance from the drip line of closest tree(s)	45m E,	46.6m E,	46.6m E,	48m E,
Distance to furnace or incinerator flue (meters)	76.6 m	76.6 m	76.6 m	76.8 m
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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
Frequency of flow rate verification for automated PM analyzers (routine checks)	Biweekly	Biweekly	Biweekly	N/A

Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, 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, 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)	4/30/2024, 10/16/2024	4/30/2024, 10/16/2024	4/30/2024, 10/16/2024	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	Y, adding Sonic Anemometer

Site Name	Visalia-W. Ashland Avenue
AQS ID (XX-XXX-XXXX)	06-107-2003
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	1/11/2022
Pollutant Parameters	Ozone, NO ₂ , PM10 FEM, PM2.5 FEM, PM2.5 Speciation (CSN)
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity
Address	2005 West Ashland Avenue, Suite G, Visalia CA 93277
GPS Coordinates (decimal degrees)	36.30815 N, -119.31290 W
Distance to road	25 m (west)
Traffic Count/Year	10,656 / 2014 (Traffic count for nearest roads: W Whitendale Avenue and S Mooney Blvd; Source: Tulare County Association of Governments Traffic Counts Interactive Map)
Ground Cover	Paved

Visalia-W. Ashland Avenue (1)						
Pollutant	Ozone	NO ₂	PM10 STP / LC	PM2.5	PM2.5 Speciation	Meteorology
Parameter code	44201	42602	81102 / 85101	88101	88102	Many
Spatial scale	N	N	N	N	N	R
Site type	PE	PE	PE	HC, PE	PE	GB
Basic monitoring objective(s)	NC, RS,TP	NC, RS, TP	NC, RS,TP / RS,TP	NC, RS, TP	RS	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	CSN Supplemental	None
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	Other	Other
POC	1	1	5	1	5	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	Y	N/A	N/A
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E	Met One BAM 1020	Met One BAM 1020	Met One SASS / Super SASS Teflon	Vaisala HMP-155 (OT/RH) RM Young 81000 (WS/WD/3DT)
Analysis method	UV	Chemiluminescence	Beta attenuation	Beta attenuation	Many	Many
Method code	087	074	122	170	811	Many

Pollutant	Ozone	NO ₂	PM10 STP / LC	PM2.5	PM2.5 Speciation	Meteorology
Monitoring start date (MM/DD/YYYY)	1/13/2022	02/04/2022	02/15/2022	01/13/23	01/11/2022	01/12/2022
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	1:3	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)	6.7	6.7	6.2	5.9	9.5	11.9
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8	2.8	2.3	2.1	2.6	None
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)	None	None	None	None	None	None

Pollutant	Ozone	NO2	PM10 STP / LC	PM2.5	PM2.5 Speciation	Meteorology
Distance from the drip line of closest tree(s)	25	25	20	20	20	None
Distance to furnace or incinerator flue (meters)	None	None	None	None	None	None
Distance between collocated monitors (meters)	None	None	N/A	2.3	N/A	None
Unrestricted airflow (degrees)	360	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	N/A	N/A	N/A	N/A
Residence time (seconds)	11.3	11.3	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 hivol? If yes, list distance (meters) and instrument(s).	N/A	N/A	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, list distance (meters) and instrument(s).	N/A	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	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	Bi-Monthly	Bi-Monthly	N/A	N/A
Frequency of one-point QC check (gaseous)	5x/week	5x/week	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	11/21/24	11/21/24	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	5/13/24, 11/21/24	5/13/24, 11/21/24	11/21/24	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Site Name	Porterville
AQS ID (XX-XXX-XXXX)	06-107-2010
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	12/1/2009
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	27,500/2022 (Ahead AADT traffic count for nearest roads: Junction SR 190/SR 65, Source: Caltrans 2022)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Porterville			
Pollutant	Ozone	PM2.5	Meteorology
Parameter code	44201	88502	Many
Spatial scale	N	N	N
Site type	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	FRM	Non-FEM	Other
POC	1	3	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Other	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N	N/A
Instrument manufacturer and model	Teledyne T265	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	Chem	Beta Attenuation	Many
Method code	199	731	Many
Monitoring start date (MM/DD/YYYY)	04/26/2024	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)	4.32 m	4.32 m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8 m	1.8 m	10 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None

Porterville			
Pollutant	Ozone	PM2.5	Meteorology
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 the drip line of closest tree(s)	30.2 m N, 54.8 m E	31.7 m N, 54.8 E	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
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)	360	360	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	10.65	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 hivol? If yes, 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, 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)	10/16/2024	N/A	N/A

Porterville			
Pollutant	Ozone	PM2.5	Meteorology
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	04/30/2024, 10/16/2024,	N/A
Changes planned within the next 18 months (Y/N)	On 4/25/2024 the Ozone method type and method code changed from FEM (087) at 10:00 AM to FRM (199) at 11:00 AM. No upcoming changes.	N	Y, adding Sonic Anemometer

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 National Park Service
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	7/1/1999
Pollutant Parameters	Ozone, PM2.5
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)
Traffic Count/Year	1,900 / 2022 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2022)
Ground Cover	Dirt, vegetative

Sequoia-Ash Mountain			
Pollutant	Ozone	PM2.5	Meteorology
Parameter code	44201	88101	Many
Spatial scale	R	R	R
Site type	GB, WRI	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	None
FRM/FEM/ARM/Other	Other	FEM	Other
POC	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N	N/A
Instrument manufacturer and model	Thermo TECO 49, 49C	Met One BAM 1020	All in One (AIO) by Vaisala (WXT536)
Analysis method	UV	Beta Attenuation	Many
Method code	047	170	Many
Monitoring start date (MM/DD/YYYY)	07/01/1999	12/1/2020	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 (vertical and horizontal, if applicable, should be provided)	3 m (Best available information. NPS does not have the capacity to go to site and re-measure.)	1.5 m (Best available information. NPS does not have the capacity to go to site and re-measure.)	3 m (Best available information. NPS does not have the capacity to go to site and re-measure.)
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 m (Best available information. NPS does not have the capacity to go to site and re-measure.)	N/A	5 m (Best available information. NPS does not have the capacity to go to site and re-measure.)
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	PM2.5	Meteorology
Distance from the drip line of closest tree(s)	5 - 10 m (Best available information. NPS does not have the capacity to go to site and re-measure.)	5 - 10 m (Best available information. NPS does not have the capacity to go to site and re-measure.)	5 - 10 m (Best available information. NPS does not have the capacity to go to site and re-measure.)
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	13.4	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Every other day	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	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 hivol? If yes, 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, 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)	10/23/2024	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	4/10/2024, 10/23/2024	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 National Park Service (NPS)
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	1/1/1987
Pollutant Parameters	Ozone
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	1,900 / 2022 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2022)
Ground Cover	Dirt, vegetation

Sequoia-Lower Kaweah		
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	CASTNET	CASTNET
FRM/FEM/ARM/Other	Other	Other
POC	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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)	05/01 – 10/31 (Seasonal only)	05/01 – 10/31 (Seasonal only)
Probe height (meters)	4.3	5
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.6	10
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	3.0 (Best available information. NPS does not have the capacity to go to site and re-measure.)	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 the drip line of closest tree(s)	3m Single alive tree. (Best available information. NPS does not have the capacity to go to site and re-measure.)	10-15 m. Burnt dead trees. (Best available information. NPS does not have the capacity to go to site and re-measure.)

Pollutant	Ozone	Meteorology
Distance to furnace or incinerator flue (meters)	457 m	457 m
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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	13.9	N/A
Frequency of one-point QC check for gaseous instruments	Monthly	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, 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, 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)	10/23/2024	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)	Yes. Site was shut down on 8/11/2024 due to lack of funding.	Yes. Site was shut down on 8/11/2024 due to lack of funding.

Site Name	Shafter	
AQS ID (XX-XXX-XXXX)	06-029-6001	
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield	
County	Kern	
Collecting (Operating) Agency	CARB: Ozone, NO2; Meteorology	SJVAPCD: Speciated VOC, NMH
Analytical Lab (i.e. weigh lab, toxics lab, other)	In 2024, the SJVAPCD was contracted with Enthalpy Analytical: Speciated VOC	
Reporting Agency	CARB: Ozone, NO2; Meteorology	SJVAPCD: Speciated VOC, NMH
Site Start Date	1/1/1989	
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation	
Address	578 Walker St., Shafter, CA 93263	
GPS Coordinates (decimal degrees)	35.5034 N, -119.2726 W	
Distance to roadways (meters)	10m (southwest)	
Traffic Count/Year	3,742; 2024 (Central Ave and Walker St. Source: Kern Council of Governments Traffic Counts Data System.	
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved	

Shafter					
Pollutant	Ozone	NO ₂	Speciated VOC	NMH	Meteorology
Parameter code	Ozone	NO ₂	Many	43102	Many
Spatial scale	44201	42602	N	N	R
Site type	N	N	HC	PE	GB
Basic monitoring objective(s)	GB, PE	PE	RS	RS	RS, TP
Monitor type	NC, RS, TP	NC, RS, TP	Other	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	SLAMS	SLAMS	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	PAMS	PAMS	Other	Other	Other
POC	FEM	FRM	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	1	1	Other	Other	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Primary	Primary	N/A	N/A	N/A
Instrument manufacturer and model	N/A	N/A	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	Teledyne 400E (ARB)	Teledyne API 200E	Preconc. GC/FID/MSD	Flame Ionization	Many
Method code	UV	CL	177	011	Many
Monitoring start date (MM/DD/YYYY)	087	099	07/25/2001	01/01/2016	01/01/1989
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	07/01/1989	07/01/1989	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	Hourly	Hourly	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	01/01 – 12/31	01/01 – 12/31	7.2 m	7.2 m	10 m

Pollutant	Ozone	NO ₂	Speciated VOC	NMH	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.2	2.2	2.4	2.4	10 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
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 the drip line of closest tree(s)	None	None	17m N	15m N	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 ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	TEFLON	TEFLON	Stainless Steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	16.3	18.1	2.79	14.38	N/A
Frequency of one-point QC check for gaseous instruments	5 days/week	5 days/week	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

Pollutant	Ozone	NO ₂	Speciated VOC	NMH	Meteorology
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, 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, 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)	7/31/24	7/31/24	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	Oildale
AQS ID (XX-XXX-XXXX)	06-029-0232
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	1/1/1980
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 degrees)	35.4380 N, -119.0167 W
Distance to road	150 m (northwest)
Traffic Count/Year	8,609; 2024 (Traffic count for roads: Manor St. near the air monitoring station. Source: Kern Council of Governments. Traffic Counts Data System)
Ground Cover	Dirt, vegetative

Oildale			
Pollutant	Ozone	PM10 STP / LC	Meteorology
Parameter code	44201	81102, 85101	Many
Spatial scale	U	MD	U
Site type	HC	SO	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP / RS,TP	NC
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	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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)	5.8	6.0	8.5
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9	2.1	1.3
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

Pollutant	Ozone	PM10 STP / LC	Meteorology
Distance from the drip line of closest tree(s)	10.1	None	None
Distance to furnace or incinerator flue (meters)	None	None	None
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)	8.0	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, 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	Monthly	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A
Last Annual Performance Evaluation (gaseous)	9/6/24	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/20/24, 9/6/24	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)	SJVAPCD
Reporting Agency	SJVAPCD
Site Start Date	6/1/1994
Pollutant Parameters	PM10 FEM and PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
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	4,344/2023 (Traffic count for nearest roads: 30th St. at Golden State Ave., Source: Kern Council of Governments Traffic Counts Data System.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield-Golden/M St			
Pollutant	PM10 LC / STP	PM2.5	Meteorology
Parameter code	81102	88101	Many
Spatial scale	N	N	N
Site type	PE	PE	PE
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS
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	3	3	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	Y	N/A
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	ITP- Met One 598B, WDV- RM Young 92000, WSV- RM Young 92000
Analysis method	Beta Attenuation	Beta Attenuation	Many
Method code	122	170	130
Monitoring start date (MM/DD/YYYY)	1/20/2022	01/20/2022	01/01/2024
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)	6.9 m	7.0 m	7.0 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8 m	2.9 m	2.9 m

Pollutant	PM10 LC / STP	PM2.5	Meteorology
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 the drip line of closest tree(s)	12 m WSW	11.5 m WSW	11.3 m WSW
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
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)	360	360	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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
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)	Bi-weekly	Bi-weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the level? If yes, list distance (meters) and instrument(s).	No	No	N/A

Pollutant	PM10 LC / STP	PM2.5	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, list distance (meters) and instrument(s).	No	No	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
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	3/19/2024, 9/5/2024	3/19/2024/, 9/5/2024	New Install
Changes planned within the next 18 months (Y/N)	N	N	Y, adding Sonic Anemometer

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	3/1/1994
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 Non-FEM, NO ₂ , Toxics, PM2.5 Speciation (STN, CSN Supplemental)
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	33,769 / 2023 (Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr., Source: Kern Council of Governments.) Traffic Counts Data System
Ground Cover	Paved

Bakersfield-California (1)				
Pollutant	Ozone	PM10 STP	PM2.5	PM2.5
Parameter code	44201	81102	88101	88101
Spatial scale	N	N	N	N
Site type	GB, PE	PE	HC, PE	HC, PE
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS	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	FEM	FRM	FRM
POC	1	7	1	2
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	Primary	QA Collocated
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	Y	Y
Instrument manufacturer and model	Teledyne API 400E	Met One BAM 1020	R&P Model 2025	R&P Model 2025
Analysis method	UV	Beta Attenuation	Sequential Air Gravimetric Sampler w/VSCC	Sequential Air Gravimetric Sampler w/VSCC
Method code	087	122	145	145
Monitoring start date (MM/DD/YYYY)	3/1/1994	2/1/2021	1/1/1999	1/1/1999
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	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
Probe/Inlet height above ground (meters) (ground to rooftop = 4.1m)	6.8	6.3	6.3	6.3
Distance from supporting structure (above rooftop) (meters)	3.0	2.5	2.5	2.5
Distance from obstructions 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 obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D Parapet	None	1.2 H x 3.12 D Parapet	1.2 H x 3.12 D Parapet
Distance from the drip line of closest tree(s)	>10m	>10m	>10m	>10m
Distance to furnace or incinerator flue (meters)	3	2.8	2.7	3.5
Distance between collocated monitors (meters)	N/A	3.5	2.3	2.3
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A
Residence time (seconds)	6.9	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, 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, list distance (meters) and instrument(s).	N/A	No	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	Semi-Monthly	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	9/4/24	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/20/24, 9/4/24	3/20/24, 9/4/24	3/20/24, 9/4/24
Changes planned within the next 18 months (Y/N)	N	N	N	N

Bakersfield-California (2)				
Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Parameter code	88502	88357	63102	63102
Spatial scale	N	N,U	N, U	N,U
Site type	PE	PE	PE	PE
Basic monitoring objective(s)	RS, TP	RS	RS	RS
Monitor type	Other	SLAMS	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CSN STN	CSN STN	CSN STN
FRM/FEM/ARM/Other	Non-FEM	Other	Other	Other
POC	3	5 and 6	5	6
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	Primary & QA Collocated (POC 5); QA Collocated (POC 6)	Primary	QA Collocated
Is it suitable for comparison against the annual PM _{2.5} ? (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	838	898	898
Monitoring start date (MM/DD/YYYY)	11/01/2001	05/03/2007	11/20/2015	01/01/2001
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	1:3	1:6
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)	6.6	6.15	5.95	5.95

Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8	2.05	1.85	1.85
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 rooftop access	11 & 13 rooftop access	7.5 rooftop access	9.5 rooftop access
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D	Parapet height of 1.1 m surrounding rooftop (1.2 H x 7.0 D)	1.2 H x 7.0 D	1.2 H x 7.0 D
Distance from the drip line of closest tree(s)	>10m	7 & 9	7	8
Distance to furnace or incinerator flue (meters)	1.5	5 & 7	5	6
Distance between collocated monitors (meters)	N/A	1.5 & 1.5	2	2
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 level? If yes, list distance (meters) and instrument(s).	No	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the level? If yes, 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
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	Semi-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	3/20/24, 9/4/24	Per CARB, the URGs were not audited.	3/20/24, 9/4/24	3/20/24, 9/4/24
Changes planned within the next 18 months (Y/N)	N	N	N	N

Bakersfield-California (3)				
Pollutant	NO2	Toxics	Toxics	Meteorology
Parameter code	42602	Many	Many	Many
Spatial scale	N	N	N	R
Site type	PE	PE	PE	GB
Basic monitoring objective(s)	NC, RS, TP	RS, TP	RS, TP	RS, TP
Monitor type	SLAMS	Many	Many	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CA Air Toxics	CA Air Toxics	None
FRM/FEM/ARM/Other	FRM	Other	Other	Other
POC	1	Many	Many	Many
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	QA Collocated	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 200E	Xontech 924	Xontech 924	Vaisala HMP-155 (OT/RH) RM Young 81000 (WS/WD/3DT)
Analysis method	CL	Many	Many	Many
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)	6.8	5.7	5.7	13.8

Pollutant	NO2	Toxics	Toxics	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	7.5	9.5	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D	1.2 H x 3.89 D	1.2 H x 3.89 D	None
Distance from the drip line of closest tree(s)	>10m	14	15	None
Distance to furnace or incinerator flue (meters)	3	2	3	None
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A
Residence time (seconds)	7.1	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 level? If yes, 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 level? If yes, 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

Pollutant	NO2	Toxics	Toxics	Meteorology
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)	9/4/24	3/20/24, 9/4/24	3/20/24, 9/4/24	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)	N	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	1/1/2019
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	114,000; 2023* Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2023) 3,956; 2023** Westwind Drive near the air monitoring station. Source: Kern Council of Governments Traffic Counts Data System
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield-Westwind		
Pollutant	NO2	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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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 – MET One 010C
Analysis method	CAPS (Cavity Attenuated Phase Shift Spectroscopy)	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)	5.6m	4.8,
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.07m	1.9m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A

Pollutant	NO2	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	7.7 m H, 14.8 m V	7.4 m H, 14.8 m V
Distance from the drip line of closest tree(s)	25.3m	20m
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	350
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	5.43	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 hivol? If yes, 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, 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)	10/15/2024	N/A

Pollutant	NO ₂	Meteorology
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	Y, Sonic Anemometer to be added

Site Name	Bakersfield-Airport (Planz)
AQS ID (XX-XXX-XXXX)	06-029-0016
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	2/18/2000
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)
Traffic Count/Year	15,502 / 2023 (Traffic count for nearest cross street): S. Union Ave between E. Planz Rd and E White Lane Source: Kern Council of Governments Traffic Counts Data System 1,041 / 2023 (Traffic count for monitoring station's street address) Source: Kern Council of Governments Traffic Counts Data System
Ground Cover	Paved

Bakersfield-Airport (Planz)	
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	Y
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)	2.2
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	N/A. There is no supporting structure at the site.
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 the drip line of closest tree(s)	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

Pollutant	PM2.5
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, list distance (meters) and instrument(s).	N/A
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	3/20/24, 9/4/24
Changes planned within the next 18 months (Y/N)	Y – CARB plans for relocating the sampler are pending.

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)	In 2024, the SJVAPCD was contracted with Enthalpy Analytical: Speciated VOC
Reporting Agency	SJVAPCD
Site Start Date	6/1/2012
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)	65m (North)
Traffic Count/Year	19,392 / 2024 (Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr and Watts Dr. Source: Kern Council of Governments Traffic Counts Data System 5,040 / 2023 (Traffic count for road adjacent to monitoring station: Watts Dr between S Union Ave and Short St. Source: Kern Council of Governments Traffic Counts Data System
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield-Muni						
Pollutant	Ozone	CO	NO2	Speciated VOC	NMH	Meteorology
Parameter code	44201	42101	42602	Many	43102	Many
Spatial scale	N	N	N	N	N	R
Site type	PE	PE	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	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS, RA40	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FRM	FEM	FEM	Other	Other	Other
POC	1	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API T265	Thermo 48i TLE	TeledyneT200	Entech 1900	Synspec 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	Chemiluminescence	Non-dispersive IR	Chem.	GC / UV Absorption	TEI 55: Propane	Many
Method code	199	554	099	177 / 202	011	Many
Monitoring start date (MM/DD/YYYY)	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	1:3	Hourly	Hourly

Pollutant	Ozone	CO	NO ₂	Speciated VOC	NMH	Meteorology
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)	6.0 m	6.0 m	6.0 m	6.0 m	6.0 m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	2.1 m	2.1 m	2.1 m	2.1 m	10 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	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 the drip line of closest tree(s)	80m (North)	80m (North)	80m (North)	80m (North)	80m (North)	83.8m (North)
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)	350	350	350	350	350	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless Steel	Teflon/Pyrex with Borosilicate	N/A

Pollutant	Ozone	CO	NO2	Speciated VOC	NMH	Meteorology
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	13.14	13.72	13.21	4	13.38	N/A
Frequency of one-point QC check for gaseous instruments	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
Frequency of flow rate verification for automated PM analyzers (routine checks)	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
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, list distance (meters) and instrument(s).	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)	9/5/2024	9/5/2024	9/5/2024	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
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	Y, adding Sonic Anemometer

Site Name	Edison
AQS ID (XX-XXX-XXXX)	06-029-0007
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	1/1/1980
Pollutant Parameters	Ozone, NO ₂
Meteorological Parameters	Wind speed, wind direction, outside temperature, relative humidity
Address	Johnston Farm, Edison, CA 93320
GPS Coordinates (decimal degrees)	35.34561 N, -118.85183 W
Distance to road	450 m (south)
Traffic Count/Year	2,753/2020 (Traffic count for nearest roads: Edison Hwy. and Comanche Dr., Source: Kern Council of Governments) Traffic Counts Data System
Ground Cover	Dirt, vegetative

Edison			
Pollutant	Ozone	NO2	Meteorology
Parameter code	44201	42602	Many
Spatial scale	N	N	R
Site type	HC	PE	GB
Monitoring objective	NC, RS, TP	NC, RS, TP	RS, TP
Monitor type	SLAMS	SLAMS	Other
Network affiliation	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	Other
POC	1	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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	Many
Method code	087	099	Many
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	5.4	10 (OT 2.1 m)
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.5	1.5	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 the drip line of closest tree(s)	16.1 (11.0 m to dripline)	16.1 (11.0 m to dripline)	18.5
Distance to furnace or incinerator flue (meters)	None	None	None
Distance between collocated monitors (meters)	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360

Pollutant	Ozone	NO₂	Meteorology
Probe material (Teflon, etc.)	Teflon	Teflon	N/A
Residence time (seconds)	13.7	13.8	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the hivol? If yes, 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, list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	7.7	7.9	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)	Daily	Daily	N/A
Last Annual Performance Evaluation (gaseous)	7/30/24	7/30/24	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	636 / 2022 (Traffic count for Buena Vista Blvd east of Tejon Hwy., Source: Kern Council of Governments.) Traffic Counts Data System
Ground Cover	Dirt, vegetative

Arvin-Di Giorgio		
Pollutant	Ozone	Meteorology
Parameter code	44201	Many
Spatial scale	N	R
Site type	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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N/A	N/A
Instrument manufacturer and model	Teledyne API 400E	RM Young 81000, Vaisala HMP155
Analysis method	UV	Many
Method code	087	Many
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	10
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None
Distance from the drip line of closest tree(s)	>10	18.5
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)	12.0	N/A

Pollutant	Ozone	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, 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, 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)	10/22/24	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)	In 2024 CARB completed the process of transitioning to a replacement air monitoring shelter at the Arvin site and the permanent site went online in April/May 2024. CARB and the District will review resuming Type 3 PAMS monitoring at this site.	

Site Name	Maricopa
AQS ID (XX-XXX-XXXX)	06-029-0008
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	1/1/1988
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	442/2023 (Traffic count for nearest roads: Union St. at California St., Source: Kern Council of Governments Traffic Counts Data System.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, dirt, vegetative

Maricopa		
Pollutant	Ozone	Meteorology
Parameter code	44201	Many
N	N	N
Site type	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, one, or multiple)	None	None
FRM/FEM/ARM/Other	FEM	Other
POC	1	1
Primary / QA Collocated / Other (provide for all PM _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	N/A	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (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)	4.8m	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	10 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 the drip line of closest tree(s)	24 m	None
Distance to furnace or incinerator flue (meters)	N/A	N/A

Pollutant	Ozone	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)	360	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (seconds)	7.62	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 loivol? If yes, 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, 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)	08/01/2024	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	Y, adding Sonic Anemometer

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	1/1/2009
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature,
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	525/2022 (Traffic count for nearest roads: Lebec Rd near Interstate 5, Source: Kern Council of Governments Traffic Counts Data System.)
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 _{2.5} , PM ₁₀ , PM _{10-2.5} , Pb and NO ₂ monitors. Non-PM, Pb, NO ₂ monitors should be listed as "N/A".)	Primary	N/A
Is it suitable for comparison against the annual PM _{2.5} ? (Y/N)	N	N/A
Instrument manufacturer and model	Met One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, , 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;
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)	4.7 m	4.7 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 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)	N/A	N/A
Distance from the drip line of closest tree(s)	54m	57m
Distance to furnace or incinerator flue (meters)	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A

Pollutant	PM2.5	Meteorology
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360
Probe material for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO ₂ /NO _y , SO ₂ , O ₃ ; 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, 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, 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)	4/8/2024, 10/21/2024	N/A
Changes planned within the next 18 months (Y/N)	N	Y, adding Sonic Anemometer



REGION 9

SAN FRANCISCO, CA 94105

July 30, 2024

Jonathan Klassen
Director, Air Quality Science and Planning
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Avenue
Fresno, California 93726

Dear Jonathan Klassen:

This letter provides U.S. Environmental Protection Agency's (EPA) review and approval for the San Joaquin Valley Air Pollution Control District (SJVAPCD) relocation of the O₃, PM_{2.5}, and NO₂ State/Local Air Monitoring Station (SLAMS) monitors from the Merced-Coffee site (Air Quality System (AQS) Site ID: 06-047-0003) to the Merced-Vierra site (AQS Site ID: 06-047-2024). On May 29, 2024, SJVAPCD sent a letter to the EPA with a request for EPA approval of this network change. In this letter, SJVAPCD explained the need to relocate the Merced-Coffee monitoring site due to logistics beyond SJVAPCD's control (i.e., termination of lease). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors.

The Merced-Coffee NO₂ monitor relocation was reviewed under 40 CFR 58.14(b). Generally, relocations may be appropriate for approval if the new site is at a nearby location with the same scale of representation and if the relocation does not compromise data needed for implementation of the National Ambient Air Quality Standards (NAAQS) or if one of the criteria for the monitor discontinuation under 40 CFR 58.14(c)(1) through (c)(5) are satisfied. EPA reviewed the NO₂ data against criteria in 40 CFR 58.14(c)(1). According to certified data from 2019-2023 submitted to EPA's AQS, EPA determined that this monitor meets the requirements for discontinuation under 40 CFR 58.14(c)(1) and there is a less than 10 percent probability of exceeding 80 percent of the applicable NAAQS during the next three years (2024-2026) at the site.

The Merced-Coffee O₃ and PM_{2.5} monitors were not eligible for removal under 40 CFR 58.14(c)(1) - (c)(5). These monitor relocations were reviewed under 40 CFR 58.14(c)(6), which describes the relocation requirements if a SLAMS monitor is not eligible for removal under the criteria in 40 CFR 58.14(c)(1) through (c)(5), and states that "[a] SLAMS monitor ... may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site."

The original Merced-Coffee site is located at 385 South Coffee Street, Merced, CA 95341. The relocation site, 3076 E Childs Avenue, Merced, CA 95341, is approximately 950 meters northeast of the original site location. Both sites have a neighborhood scale of representation, meaning they are expected to have relatively uniform land use in the 0.5 to 4.0 kilometers spatial range. Both sites are in an area characterized by similar land-use patterns. The original and proposed relocation site are expected to measure similar O₃, PM_{2.5}, and NO₂ concentrations from similar sources due to the consistency in land use and proximity to sources. This relocation will not prevent SJVAPCD from meeting 40 CFR part 58, Appendix D requirements.

Based on our assessment of this request, EPA has determined that SJVAPCD's request meets the requirement that the replacement site is at a nearby location with the same scale of representation and does not compromise data needed for implementation of the NAAQS. EPA thus approves relocation of the Merced-Coffee O₃, PM_{2.5}, and NO₂ SLAMS monitors to the proposed site, Merced-Vierra. This approval assumes that the new site will meet all 40 CFR part 58 requirements, including the siting requirements specified in Appendix E. Please work with EPA to ensure that the new site meets all relevant requirements. As this is a relocation, the data from the old and new sites will be combined to form one continuous data record for design value calculations. Please note this in the AQS comment field for both the old and the new AQS site. Also, please attach this letter and include the relevant monitor and site information in your next Annual Monitoring Network Plan.

If there are any questions regarding this letter, please feel free to contact me at (415) 972-3134 or Laura Barry at (415) 972-3874.

Sincerely,

DENA
VALLANO

Digitally signed by DENA
VALLANO
Date: 2024.07.30
10:20:20 -07'00'

Dena Vallano, Manager
Monitoring and Analysis Section
Air and Radiation Division

cc (via email): Chay Thao, SJVAPCD
Madison Jordan-Perkins, SJVAPCD
Nathan Trevino, SJVAPCD
Robert Gilles, SJVAPCD
Sylvia Vanderspek, CARB
Manisha Singh, CARB
Jin Xu, CARB
Alicia Kindred, CARB
Michael Olson, CARB
Melanie Levesque, CARB

APPENDIX C:
Notice of Public Comment Period

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**SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
NOTICE OF PUBLIC COMMENT PERIOD ON THE 2025 AIR MONITORING
NETWORK PLAN**

NOTICE IS HEREBY GIVEN that a 30-day public comment period is being held on the San Joaquin Valley Unified Air Pollution Control District's (District) 2025 Air Monitoring Network Plan. The 2025 Air Monitoring Network Plan provides information regarding air monitoring network activities in the San Joaquin Valley, and any planned changes over the next year.

Interested persons may submit comments to:

Robert Gilles
San Joaquin Valley Unified Air Pollution Control District
1990 East Gettysburg Avenue
Fresno, CA 93726
Email: airqualityplanning@valleyair.org

The public comment period began May 28, 2025 and will end at 5:00 PM PDT on June 29, 2025.

Copies of the Draft 2025 Air Monitoring Network Plan can be obtained by calling (559) 230-6000. You may download a copy of the Draft 2025 Air Monitoring Network Plan from the District's website on or after May 28, 2025, under the Other Notices portion of the Public Notices page:

https://archive.valleyair.org/notices/public_notices-archive.html#Other%20Notices

For additional information, contact Robert Gilles by phone at (559) 230-6000.

**DISTRITO UNIFICADO DE CONTROL DE LA CONTAMINACIÓN
DEL AIRE DEL VALLE DE SAN JOAQUÍN
AVISO DE PERÍODO DE COMENTARIOS PÚBLICOS SOBRE EL PLAN DE LA RED
DE MONITOREO DEL AIRE 2025**

POR EL PRESENTE SE NOTIFICA que se llevará a cabo un período de comentarios públicos de 30 días sobre el Plan de la Red de Monitoreo del Aire 2025 del Distrito de Control de la Contaminación del Aire del Valle de San Joaquín (Distrito). El Plan de la Red de Monitoreo del Aire 2025 proporciona información sobre las actividades de la red de monitoreo del aire en el Valle de San Joaquín y cualquier cambio planificado para el próximo año.

Las personas interesadas pueden enviar comentarios a:

Robert Gilles
Distrito Unificado de Control de la Contaminación del Aire del Valle de San Joaquín
1990 East Gettysburg Avenue
Fresno, CA 93726
Email: airqualityplanning@valleyair.org

El período de comentarios públicos comenzó el 28 de mayo de 2025 y se finalizará a las 5:00 PM PDT el 29 de junio de 2025.

Copias del Borrador del Plan de la Red de Monitoreo del Aire 2025 se pueden obtener llamando al (559) 230-6000. También puede descargar una copia del Borrador del Plan de la Red de Monitoreo del Aire 2025 desde el sitio web del Distrito a partir del 28 de mayo de 2025, en la sección "Avisos Adicionales" de la página de Avisos Públicos:

https://archive.valleyair.org/notices/public_notices-archive.html#Other%20Notices

Para obtener información adicional, comuníquese con Robert Gilles por teléfono al (559) 230-6000.