Appendices to the 2023 Annual Network Plan

List of Appendices

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Appendix A

Detailed Site Reports

Table of Contents

Amador County APCD

Local Site Name	Jackson-Clinton Road				
AQS ID	06-005-0002				
GPS Coordinates	38.34261, -120.76443				
Street Address	201 Clinton Rd, Jackson, 95642				
County	Amador				
Distance to roadways (meters)	270 to CA-49				
Traffic Count (AADT,year)	7,300 (2,500)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	None				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	ARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	5/1/1992				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	5.9				
Distance from supporting structure (meters)	2.6				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.7				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/15/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Antelope Valley AQMD

Local Site Name	Lancaster-Division Street				
AQS ID	06-037-9033				
GPS Coordinates	34.66959, -118.13068				
Street Address	43301 Division St, Lancaster, 93535				
County	Los Angeles				
Distance to roadways (meters)	118 to Sierra Hwy; 47 to Division Street				
Traffic Count (AADT,year)	Not available				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Los Angeles-Long Beach-Anaheim Metropolitan Statistical Area				
Pollutant, POC	CO, 1	NO2, 1	Ozone, 1	PM10, 2	PM2.5, 1
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	Primary	Primary
Parameter Code	42101	42602	44201	81102	88101
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS, Public Info.	NAAQS
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 300	Teledyne API 200	Teledyne API 400	Met One BAM 1020	Met One BAM 1020
Method code	93	99	87	122	170
FRM/FEM/ARM/Other	FRM	FRM	FEM	FEM	FEM
Collecting Agency	Antelope Valley	Antelope Valley	Antelope Valley	Antelope Valley	Antelope Valley
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	Antelope Valley
Reporting Agency	Antelope Valley	Antelope Valley	Antelope Valley	Antelope Valley	Antelope Valley
Spatial scale	Middle	Middle	Middle	Neighborhood	Neighborhood
Monitoring start date	11/01/2001	11/01/2001	11/01/2001	11/1/2001	11/01/2001
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	Continuous
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	N/A
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	6.4	6.4	6.4	6.4	6.5
Distance from supporting structure (meters)	1.9	1.9	1.9	>2	2
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	>10
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 % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	15.1	14.5	N/A	N/A
Will there be changes within the next 18 months?	shut down 12/19/22	shut down 12/19/22	shut down 12/19/22	shut down 12/19/22	shut down 12/19/22
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly	Monthly
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	Every 2 weeks	Every 2 weeks	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A	3/1/2022	3/1/2022	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	N/A	3/1/2022 9/20/2022	3/1/2022 9/20/2022

Butte County AQMD

Local Site Name	Chico - East Avenue				
AQS ID	06-007-0008				
GPS Coordinates	39.76168, -121.84047				
Street Address	984 East Ave, Ste B4, Chico, 95926				
County	Butte				
Distance to roadways (meters)	895 to CA-99				
Traffic Count (AADT,year)	47,200 (2020)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Chico Metropolitan Statistical Area				
Pollutant, POC	CO, 3	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	Primary	Primary
Parameter Code	42101	42602	44201	81102	88101
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	Public Information
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 300	Thermo 42iQ	Teledyne API 400	Met One BAM 1020	Met One BAM 1020
Method code	593	74	87	122	170
FRM/FEM/ARM/Other	FRM	FRM	FEM	FEM	FEM
Collecting Agency	CARB	CARB	CARB	CARB	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	N/A
Reporting Agency	CARB	CARB	CARB	CARB	CARB
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	06/01/2012	06/08/2012	06/01/2012	5/27/2012	6/1/2012
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	Continuous
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	N/A
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	6.3	6.3	6.3	6.5	6.5
Distance from supporting structure (meters)	2.0	2.0	2.0	2.5	2.5
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	>10
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	2
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	12.2	18.1	12.5	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No	No
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	N/A	No
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly	Monthly
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	12/12/2022	12/12/2022	8/4/2022	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	N/A	2/24/2022 12/12/2022	2/24/2022 12/12/2022

Local Site Name	Gridley				
AQS ID	06-007-4001				
GPS Coordinates	39.32756, -121.66881				
Street Address	608 Cowee Ave, Gridley, 95948				
County	Butte				
Distance to roadways (meters)	1,053 to CA-99				
Traffic Count (AADT,year)	19,200 (2015)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	Chico Metropolitan Statistical Area				
Pollutant, POC	PM2.5, 3				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88502				
Basic monitoring objective(s)	Public Information				
Site type(s)	Population Exposure				
Monitor type(s)	Other				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	731				
FRM/FEM/ARM/Other	Other				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	1/1/2001				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	4.8				
Distance from supporting structure (meters)	>2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	No				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/10/2022 10/18/2022				

Local Site Name	Paradise - Airport				
AQS ID	06-007-0007				
GPS Coordinates	39.70845, -121.61731				
Street Address	4405 Airport Rd, Paradise, 95969				
County	Butte				
Distance to roadways (meters)	463 to CA-191				
Traffic Count (AADT,year)	5,000 (2020)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	Chico Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	05/01/2000				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	4.6				
Distance from supporting structure (meters)	1.6				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	4.9				
Will there be changes within the next 18 months?	Yes				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/5/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Paradise - Theater				
AQS ID	06-007-2002				
GPS Coordinates	39.77919, -121.59135				
Street Address	6701 Clark Road, Paradise CA 95966				
County	Butte				
Distance to roadways (meters)	125 to CA-191				
Traffic Count (AADT,year)	9,500 (2020)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Chico Metropolitan Statistical Area				
Pollutant, POC	PM2.5, 3				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88502				
Basic monitoring objective(s)	Public Information				
Site type(s)	General Background				
Monitor type(s)	OTHER				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1022				
Method code	171				
FRM/FEM/ARM/Other	Other				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	9/9/2010				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	10.2				
Distance from supporting structure (meters)	2.2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	Yes				
Is it suitable for comparison against the annual PM2.5 NAAQS?	No				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Semi-Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/24/2022 8/5/2022				

Calaveras County APCD

Local Site Name	San Andreas-Gold Strike Road				
AQS ID	06-009-0001				
GPS Coordinates	38.20185, -120.68028				
Street Address	501 Gold Strike Rd, San Andreas, 95249				
County	Calaveras				
Distance to roadways (meters)	620 to CA-49				
Traffic Count (AADT,year)	10,900 (2015)				
Ground Cover	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other)	None				
Pollutant, POC	Ozone, 1	PM10, 3	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary		
Parameter Code	44201	81102	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS, Public Information		
Site type(s)	Highest Concentration	General Background	General Background		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020N	Met One BAM 1020		
Method code	87	122	170		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
Collecting Agency	CARB	CARB	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	05/01/1994	10/6/2014	06/15/2010		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.4	5	4.8		
Distance from supporting structure (meters)	1.2	2.1	2		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters		
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 % 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	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.3	N/A	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	Monthly		
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/16/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/16/2022 9/6/2022	2/16/2022 9/6/2022		

Colusa County APCD

Local Site Name	Colusa-Sunrise Blvd				
AQS ID	06-011-1002				
GPS Coordinates	39.18919, -121.99887				
Street Address	100 Sunrise Blvd, Colusa, 95932				
County	Colusa				
Distance to roadways (meters)	642 to CA-20				
Traffic Count (AADT,year)	9,500 (2015)				
Ground Cover	Grass				
Representative statistical area name (i.e. MSA, CBSA, other)	None				
Pollutant, POC	Ozone, 1	PM10, 6	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary		
Parameter Code	44201	81102	88502		
Basic monitoring objective(s)	NAAQS	NAAQS	Public Information		
Site type(s)	General Background	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	Other		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020	Met One BAM 1020		
Method code	87	122	170		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
Collecting Agency	CARB	CARB	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Regional	Neighborhood	Neighborhood		
Monitoring start date	07/01/1996	2/1/2016	7/1/2021		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	5.3	5.9	6.4		
Distance from supporting structure (meters)	2	2.2	4.2		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters		
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 % 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	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.9	N/A	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	No		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	Monthly		
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	4/19/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/19/2022 10/13/2022	4/19/2022 10/13/2022		

Eastern Kern APCD

Local Site Name	Canebrake				
AQS ID	06-029-0017				
GPS Coordinates	35.72775, -118.13770				
Street Address	3147 Highway 178, Canebrake, 93255				
County	Kern				
Distance to roadways (meters)	88 to CA-178				
Traffic Count (AADT,year)	2,250 (2015)				
Ground Cover	Sand				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield Metropolitan Statistical Area				
Pollutant, POC	PM10, 2				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure; General Background				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	MetOne Ebam Plus				
Method code	226				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Eastern Kern APCD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Eastern Kern APCD				
Spatial scale	Regional				
Monitoring start date	1/1/2009				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	2.8				
Distance from supporting structure (meters)	>2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	2 weeks				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/3/2022 8/30/2022				

Local Site Name	Mojave-CA58				
AQS ID	06-029-0019				
GPS Coordinates	35.04649, -118.16295				
Street Address	1773 CA-58 Business, Mojave CA 93501				
County	Kern				
Distance to roadways (meters)	60m to CA-58				
Traffic Count (AADT,year)	17,000 (2015)				
Ground Cover	Dirt/Soil				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 2	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Primary		
Parameter Code	44201	81102	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Highest Concentration	Population Exposure	Highest Concentration		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020	Met One BAM 1020		
Method code	87	122	170		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
Collecting Agency	CARB	CARB	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Regional	Neighborhood	Neighborhood		
Monitoring start date	9/22/2020	10/1/2020	10/1/2020		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.1	4.4	4.5		
Distance from supporting structure (meters)	1.5	1.8	1.9		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>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 around probe/inlet or % 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	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	9.5	N/A	N/A		
Will there be changes within the next 18 months?	Yes	Yes	Yes		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	Semi-Monthly	Semi-Monthly		
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/2/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/2/2022 8/30/2022	2/2/2022 8/30/2022		

Local Site Name	Ridgecrest - Ward Ave				
AQS ID	06-029-0018				
GPS Coordinates	35.64296, -117.71414				
Street Address	2051 Ward Av , Ridgecrest, 93555				
County	Kern				
Distance to roadways (meters)	N. Primavera Street (32m), Sydnor Ave (235m), West Ward Ave. (162m), Jacks Ranch Road (800m)				
Traffic Count	Primavera 5 (staff estimate), Sydnor 15 (staff estimate), Ward 15 (staff estimate), Jacks Ranch Rd 2,087 (July 25, 2018)				
Ground Cover	Sand				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield Metropolitan Statistical Area				
Pollutant, POC	PM10, 1	PM2.5, 1			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	81102, 85101	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Highest Concentration	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	MET ONE BAM 1020	MET ONE BAM 1020			
Method code	122	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Eastern Kern APCD	Eastern Kern APCD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Eastern Kern APCD	Eastern Kern APCD			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	11/1/2017	11/1/2017			
Current sampling frequency	continuous	continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	5.5	5.5			
Distance from supporting structure (meters)	2.0	2.0			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	100	100			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	2 weeks	2 weeks			
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	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/3/2022 8/30/2022	2/3/2022 8/30/2022			

El Dorado County AQMD

Local Site Name	Cool (seasonal)				
AQS ID	06-017-0020				
GPS Coordinates	38.89094, -121.00337				
Street Address	1400 American River Trail, Cool, 95614				
County	El Dorado				
Distance to roadways (meters)	183 to CA-193				
Traffic Count (AADT,year)	6,300 (2015)				
Ground Cover	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other)	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	06/01/1996				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	Apr-Oct				
Probe height (meters)	11.9				
Distance from supporting structure (meters)	N/A				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.1				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/27/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Echo Summit (seasonal)				
AQS ID	06-017-0012				
GPS Coordinates	38.81161, -120.03308				
Street Address	21200 US Hwy 50, Little Norway, 95721				
County	El Dorado				
Distance to roadways (meters)	207 to US-50				
Traffic Count (AADT,year)	2,500				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201-1				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Regional Transport				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	01/01/2000				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	Apr-Oct				
Probe height (meters)	3.9				
Distance from supporting structure (meters)	1.8				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	None				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	17.5				
Will there be changes within the next 18 months?	Back online for 2016 season				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	6/21/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Placerville - Canal				
AQS ID	06-017-2004				
GPS Coordinates	38.73319, -120.81372				
Street Address	561 Canal St, Placerville, CA 95667561 Canal St, Placerville, CA 95667				
County	El Dorado				
Distance to roadways (meters)	19 to US-50				
Traffic Count (AADT,year)	49,500				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201-1				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	6/16/2022				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	10.4				
Distance from supporting structure (meters)	1.4				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	None				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	17.5				
Will there be changes within the next 18 months?	Yes				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/12/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	South Lake Tahoe-Sandy Way				
AQS ID	06-017-0011				
GPS Coordinates	38.94498, -119.97061				
Street Address	3337 Sandy Way, South Lake Tahoe, 96150				
County	El Dorado				
Distance to roadways (meters)	196 to US-50				
Traffic Count (AADT,year)	17,500				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	PM10, 5				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102-5				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Middle				
Monitoring start date	12/1/1992				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6.0				
Distance from supporting structure (meters)	2.6				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	None				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/26/2022 10/17/2022				

Feather River AQMD

Local Site Name	Sutter Buttes (seasonal)				
AQS ID	06-101-0004				
GPS Coordinates	39.20556, -121.82046				
Street Address	Top of South Butte, Sutter Buttes, 95982				
County	Sutter				
Distance to roadways (meters)	6,100 to CA-20				
Traffic Count (AADT,year)	7,400 (2015)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	Yuba City Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration; Regional Transport				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	05/01/1993				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	Apr-Oct				
Probe height (meters)	6.7				
Distance from supporting structure (meters)	1.2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	N/A (No trees)				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	18.6				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	6/2/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Yuba City				
AQS ID	06-101-0003				
GPS Coordinates	39.13876, -121.61872				
Street Address	773 Almond St, Yuba City, 95991				
County	Sutter				
Distance to roadways (meters)	275 to CA-20				
Traffic Count (AADT,year)	38,500 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Yuba City Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	PM2.5, 4
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	Primary	Collocate
Parameter Code	42602	44201	81102	88502	88502
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Highest Concentration	Population Exposure	Population Exposure	Population Exposure
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Thermo 42iQ	Teledyne API 400	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020
Method code	74	87	122	170	170
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	FEM
Collecting Agency	CARB	CARB	CARB	CARB	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	N/A
Reporting Agency	CARB	CARB	CARB	CARB	CARB
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	1/1/1989	10/01/1989	6/11/2014	12/7/2020	3/24/2021
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	Continuous
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	N/A
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	8.4	8.4	9.6	9.7	9.7
Distance from supporting structure (meters)	1.1	1.1	2.3	2.4	2.4
Distance from obstructions on roof (meters)	1.8 (Wall)	1.8 (Wall)	1.8 (Wall)	1.8 (Wall)	1.8 (Wall)
Height above probe for obstructions on roof (meters)	0.9	0.9	0.9	0.9	0.9
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters	>10 meters	>10 meters
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	1.1	1.1
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.9	11.8	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No	No
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	No	No
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly	Monthly	Monthly
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/23/2022	8/23/2022	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	2/22/2022 8/23/2022	2/22/2022 8/23/2022	2/22/2022 8/23/2022

Glenn County APCD

Local Site Name	Willows-Colusa				
AQS ID	06-021-0003				
GPS Coordinates	39.53387, -122.19083				
Street Address	720 N. Colusa St., Willows, 95988				
County	Glenn				
Distance to roadways (meters)	1,092 to CA-162				
Traffic Count (AADT,year)	5,000 (2015)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	None				
Pollutant, POC	Ozone, 1	PM10, 3	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Primary		
Parameter Code	44201	81102	88502		
Basic monitoring objective(s)	NAAQS	NAAQS	Public Information		
Site type(s)	Population Exposure	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	Other		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020	Met One BAM 1020		
Method code	87	122	731		
FRM/FEM/ARM/Other	FEM	FEM	Other		
Collecting Agency	CARB	CARB	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	09/13/2006	10/1/2013	09/13/2006		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.7	4.8	4.9		
Distance from supporting structure (meters)	1.9	2.0	2.1		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters		
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 % 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	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.3	N/A	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	No		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly	Monthly		
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	4/18/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/18/2022 10/18/2022	4/18/2022 10/18/2022		

Imperial County APCD

Local Site Name	Brawley-Main Street #2				
AQS ID	06-025-0007				
GPS Coordinates	32.97831, -115.53904				
Street Address	220 Main St., Brawley, 92227				
County	Imperial				
Distance to roadways (meters)	270 to CA-86				
Traffic Count (AADT,year)	16,400 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	El Centro Metropolitan Statistical Area				
Pollutant, POC	PM10, 3	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	81102	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1022			
Method code	122	209			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Imperial County	Imperial County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	8/11/2009	6/23/2021			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	12.4	12.1			
Distance from supporting structure (meters)	2.4	2.1			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	N/A (No trees)	N/A (No trees)			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	Monthly	Monthly			
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	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	3/15/2022 9/28/2022	3/15/2022 9/28/2022			

Local Site Name	El Centro-9th Street				
AQS ID	06-025-1003				
GPS Coordinates	32.79215, -115.56299				
Street Address	150 9th St, El Centro, 92243				
County	Imperial				
Distance to roadways (meters)	528 to CA-86				
Traffic Count (AADT,year)	17,000 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	El Centro Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 4	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	Primary	
Parameter Code	42602	44201	81102	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Highest Concentration	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 200	Teledyne API 400	Met One BAM 1020	Met One BAM 1022	
Method code	99	87	122	209	
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	
Collecting Agency	Imperial County	Imperial County	Imperial County	Imperial County	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	CARB	CARB	CARB	CARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/1/1980	02/01/1988	7/1/2015	11/13/2021	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	11.9	11.9	12.3	12.4	
Distance from supporting structure (meters)	1.9	1.9	2.3	2.4	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10	>10	>10	N/A (No trees)	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.6	14.7	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly	Monthly	
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/10/2022	3/10/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	3/10/2022 9/28/2022	3/10/2022 9/28/2022	

Local Site Name:	Niland-English Road				
AQS ID:	06-025-4004				
GPS Coordinates:	33.21349, -115.54514				
Street Address:	7711 English Road, Niland, 92257				
County:	Imperial				
Distance to roadways (meters):	2,460 to CA-111				
Traffic Count (AADT,year)	2,950 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	El Centro Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Method code	87	122			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Imperial County	Imperial County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	10/1/1997	8/10/2009			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	4.6	5.2			
Distance from supporting structure (meters)	1.6	2.2			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.9	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Daily	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/16/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/16/2022 9/29/2022			

Local Site Name:	Westmorland				
AQS ID:	06-025-4003				
GPS Coordinates:	33.03239, -115.62362				
Street Address:	570 Cook St., Westmorland, 92281				
County:	Imperial				
Distance to roadways (meters):	646 to CA-86				
Traffic Count (AADT,year)	13,300 (2015)				
Ground Cover:	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other):	El Centro Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary following POC 1 shutdown			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Method code	87	122			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Imperial County	Imperial County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Regional	Middle			
Monitoring start date	04/01/1993	7/1/2015			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	4.3	5.5			
Distance from supporting structure (meters)	1.2	2.5			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	6.7	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Daily	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/15/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/15/2022 9/29/2022			

Local Site Name:	Calexico-Ethel Street				
AQS ID:	06-025-0005				
GPS Coordinates:	32.67887, -115.48292				
Street Address:	1085 Andrade Ave, Calexico, 92231				
County:	Imperial				
Distance to roadways (meters):	26 to CA-98				
Traffic Count (AADT,year)	18,100 (2016)				
Ground Cover:	Concrete				
Representative statistical area name (i.e. MSA, CBSA, other):	El Centro Metropolitan Statistical Area				
Pollutant, POC	CO, 3	SO2, 3	NO2, 1	Ozone, 1	
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	N/A	
Parameter Code	42101	42401	42602	44201	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Highest Concentration	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 300	Thermo 43i-TLE	Thermo 42iQ	Teledyne API 400	
Method code	593	560	74	87	
FRM/FEM/ARM/Other	FRM	FEM	FRM	FEM	
Collecting Agency	CARB	CARB	CARB	CARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	CARB	CARB	CARB	CARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	3/1/2013	3/1/2013	3/1/1994	4/1/1994	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	4.4	4.4	4.4	4.4	
Distance from supporting structure (meters)	1.9	1.9	1.9	1.9	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>19	>19	>19	>19	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	4.3	5.9	5.1	4.5	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A	
Frequency of one-point QC check for gaseous instruments	Precision S-Th*	Precision S-Th*	Precision S-Th*	Precision S-Th*	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/8/2022	3/8/2022	3/8/2022	3/8/2022	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	N/A	N/A	

*one-point. QC checks at the precision level (20% of scale) Sunday through Thursday; Span levels (80% of scale) are conducted Fridays and Saturdays.

Local Site Name:	Calexico-Ethel Street				
AQS ID:	06-025-0005				
GPS Coordinates:	32.67887, -115.48292				
Street Address:	1085 Andrade Ave, Calexico, 92231				
County:	Imperial				
Distance to roadways (meters):	26 to CA-98				
Traffic Count (AADT,year)	18,100 (2016)				
Ground Cover:	Concrete				
Representative statistical area name (i.e. MSA, CBSA, other):	El Centro Metropolitan Statistical Area				
Pollutant, POC	PM10, 3	PM2.5, 2	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	Primary	Supplementary	Primary		
Parameter Code	81102	88101	88502		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	CSN supplemental	N/A		
Instrument manufacturer and model	Met One BAM 1020	Thermo 2000I	Met One BAM 1020 W VSCC		
Method code	122	143	731		
FRM/FEM/ARM/Other	FEM	FRM	FEM		
Collecting Agency	ARB	ARB	ARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	ARB	N/A		
Reporting Agency	ARB	ARB	ARB		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	01/15/2016	4/1/2021	1/1/2016		
Current sampling frequency	Continuous	1:12	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.7	4.9	5.9		
Distance from supporting structure (meters)	2.1	2.1	2.3		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	N/A	6 (tree)	N/A		
Height above probe for obstructions not on roof (meters)	3	3	3		
Distance to nearest tree drip line (meters)	>19	>19	>19		
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A		
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	1.4	N/A		
Unrestricted airflow (degrees around probe/inlet or % 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)	N/A	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A		
Will there be changes within the next 18 months?	Yes	Yes	Yes		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes	No		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Monthly	N/A		
Frequency of flow rate verification for automated PM analyzers	Semi-Monthly	Monthly	Semi-Monthly		
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	3/8/2022 9/27/2022	3/8/2022 9/27/2022	3/8/2022 9/27/2022		

Lake County AQMD

Local Site Name	Lakeport-S. Main Street				
AQS ID	06-033-3002				
GPS Coordinates	39.018900, -122.913350				
Street Address	2617 South Main Street, Lakeport, CA 95453				
County	Lake				
Distance to roadways (meters)	30				
Traffic Count Notes	15,300 (2015)				
Ground Cover	Clearlake Micropolitan Statistical Area				
Representative statistical area name (i.e. MSA, CBSA, other)					
Pollutant, POC	Ozone, 1	PM10, 1	PM2.5, 1		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Primary		
Parameter Code	44201	81102 and 85101	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	General Background	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	R & P 2000	R & P 2000		
Method code	87	126	143		
FRM/FEM/ARM/Other	FEM	FRM	FRM		
Collecting Agency	Lake County AQMD	Lake County AQMD	Lake County AQMD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	Lake County AQMD	Lake County AQMD		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Urban	Neighborhood	Neighborhood		
Monitoring start date	7/1/2017	7/1/2017	7/1/2017		
Current sampling frequency	Continuous	1:6	1:6		
Required sampling frequency including exceptional events	N/A	1:6	1:6		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.8	4.5	4.5		
Distance from supporting structure (meters)	2.2	2	2		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>10m	>10m	>10m		
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 % 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	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	4.3	N/A	N/A		
Will there be changes within the next 18 months?	Yes	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	1/mo	1/mo		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A		
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	12/6/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	5/25/2022 12/6/2022	5/25/2022 12/6/2022		

Note: The Lake County AQMD is working with EPA to resolve District staffing and funding issues, as well as identifying equipment options for PM10 & PM2.5 to resolve the sampling frequency notes for Lakeport.

Mariposa County APCD

Local Site Name:	Jerseydale (seasonal)				
AQS ID:	06-043-0006				
GPS Coordinates:	37.54377, -119.83957				
Street Address:	6440 Jerseydale, Mariposa, 95338				
County:	Mariposa				
Distance to roadways (meters):	184 to Jerseydale Road				
Traffic Count (AADT,year)	Not available				
Ground Cover:	Grass				
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	07/01/1995				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Apr - 31-Oct				
Probe height (meters)	4				
Distance from supporting structure (meters)	1.4				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.6				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/4/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name:	Yosemite Village - Visitor Center				
AQS ID:	06-043-1001				
GPS Coordinates:	37.74871, -119.58709				
Street Address:	Visitors Center, Yosemite Village, Yosemite National Park, 95389				
County:	Mariposa				
Distance to roadways (meters):	220 to Northside Drive				
Traffic Count (AADT,year)	Not available				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	PM10, 3	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	81102	88502			
Basic monitoring objective(s)	NAAQS	Public Information			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	Other			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020			
Method code	122	731			
FRM/FEM/ARM/Other	FEM	Other			
Collecting Agency	CARB	CARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	CARB	CARB			
Spatial scale	Middle	Middle			
Monitoring start date	8/9/2014	2/1/2002			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	8.6	8.4			
Distance from supporting structure (meters)	2.2	2			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10*			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	Monthly	Monthly	Notes:		
Frequency of one-point QC check for gaseous instruments	N/A	N/A	* ARB and EPA concluded that the PM2.5 sampler is not FEM and is not subject to federal siting criteria of CFR Title 40, Part 58, Appendix E; see AQDA issued on 5-15-12.		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	4/7/2022 10/5/2022	4/7/2022 10/5/2022			

Local Site Name:	Yosemite NP - Turtleback Dome				
AQS ID:	06-043-0003				
GPS Coordinates:	37.713251, -119.706196				
Street Address:	Turtleback Dome, Yosemite National Park				
County:	Mariposa				
Distance to roadways (meters):	> 100				
Traffic Count (AADT,year)	Not available				
Ground Cover:					
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	General Background				
Monitor type(s)	Non-EPA Federal				
Network affiliation(s)	CASTNET				
Instrument manufacturer and model	Thermo 49C				
Method code	47				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	National Park Service				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	National Park Service				
Spatial scale	Regional				
Monitoring start date	9/1/1990				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	10				
Distance from supporting structure (meters)					
Distance from obstructions on roof (meters)					
Height above probe for obstructions on roof (meters)					
Distance from obstructions not on roof (meters)	>50				
Height above probe for obstructions not on roof (meters)	10				
Distance to nearest tree drip line (meters)					
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)					
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.2				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/5/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Mendocino County AQMD

Local Site Name	Fort Bragg - 300 Dana Street				
AQS ID	06-045-0010				
GPS Coordinates	39.43734, -123.78766				
Street Address	300 Dana Street, Fort Bragg, 95437				
County	Mendocino				
Distance to roadways (meters)	1,564 to CA-1				
Traffic Count (AADT,year)	19,300 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Ukiah Micropolitan Statistical Area				
Pollutant, POC	PM10, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	General Background				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mendocino County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	08/17/2011				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6.9				
Distance from supporting structure (meters)	2.6				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/25/2022 11/17/2022				

Local Site Name	Ukiah - Gobbi Street				
AQS ID	06-045-0008				
GPS Coordinates	39.14566, -123.20298				
Street Address	306 E. Gobbi St, Ukiah, 95482				
County	Mendocino				
Distance to roadways (meters)	570 to US-101				
Traffic Count (AADT,year)	22,800 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Ukiah Micropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API T265				
Method code	199				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mendocino County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	08/01/1992				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	7				
Distance from supporting structure (meters)	3				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	9.9				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Weekly				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/26/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Ukiah - Library				
AQS ID	06-045-0006				
GPS Coordinates	39.15047, -123.20655				
Street Address	105 N. Main St, Ukiah, 95482				
County	Mendocino				
Distance to roadways (meters)	847 to US-101				
Traffic Count (AADT,year)	29,200 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Ukiah Micropolitan Statistical Area				
Pollutant, POC	PM2.5, 3				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88101				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	170				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mendocino County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	12/31/2008				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	9.5				
Distance from supporting structure (meters)	2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/26/2022 11/17/2022				

Local Site Name	Willits - Blosser Lane				
AQS ID	06-045-2003				
GPS Coordinates	39.39861, -123.35872				
Street Address	1277 Blosser Lane, Willits, 95490				
County	Mendocino				
Distance to roadways (meters)	595 to State Hwy 20				
Traffic Count (AADT,year)	23,600 (2015)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	Ukiah Micropolitan Statistical Area				
Pollutant, POC	PM2.5, 3				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88101				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	170				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mendocino County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	2/4/2021				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	5.3				
Distance from supporting structure (meters)	2.5				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/25/2022 11/17/2022				

Mojave Desert AQMD

Local Site Name	Barstow				
AQS ID	06-071-0001				
GPS Coordinates	34.89405, -117.02471				
Street Address	1301 W. Mountain View St., Barstow, 92311				
County	San Bernardino				
Distance to roadways (meters)	890 to I-15; 890 to CA-247				
Traffic Count (AADT,year)	66,000 (I-15); 18,400 (CA-247) (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 1		
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary		
Parameter Code	42602	44201	81102		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 200U	Teledyne API 400T	Met One BAM 1020		
Method code	99	87	122		
FRM/FEM/ARM/Other	FRM	FEM	FEM		
Collecting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Spatial scale	Middle	Middle	Neighborhood		
Monitoring start date	01/01/1973	01/01/1974	01/01/2014		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4.5	4.5	6		
Distance from supporting structure (meters)	1	1	2.5		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>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 around probe/inlet or % 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	Teflon	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.6	13.6	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly		
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	Every 2 weeks	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/17/2022	3/17/2022	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	3/17/2022 9/21/2022		

Local Site Name	Blythe-Murphy Street				
AQS ID	06-065-9003				
GPS Coordinates	33.61235, -114.60209				
Street Address	445 W Murphy St, Blythe, 92225				
County	Riverside				
Distance to roadways (meters)	674 to I-10				
Traffic Count (AADT,year)	27,200 (2015)				
Ground Cover	Unpaved				
Representative statistical area name (i.e. MSA, CBSA, other)	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Supplementary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS, Public Information				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne T400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	05/01/2003				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6.5				
Distance from supporting structure (meters)	2				
Distance from obstructions on roof (meters)	N/A				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	N/A				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	N/A (No trees)				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.4				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/22/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Hesperia-Olive Street				
AQS ID	06-071-4001				
GPS Coordinates	34.41650, -117.28559				
Street Address	17288 Olive St, Hesperia, 92340				
County	San Bernardino				
Distance to roadways (meters)	105 to Olive Street; 36 to H Avenue				
Traffic Count (AADT,year)	Not available				
Ground Cover	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other)	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 2			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure; General Background			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400T	Met One BAM 1020			
Method code	87	122			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Mojave Desert AQMD	Mojave Desert AQMD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	01/01/1980	01/01/2014			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	3.9	4.4			
Distance from supporting structure (meters)	1	>2			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	2.7	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/3/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/3/2022 9/21/2022			

Local Site Name:	Joshua Tree National Monument - Black Rock				
AQS ID:	06-071-9002				
GPS Coordinates:	34.06957, -116.38893				
Street Address:	Joshua Tree National Monument, CA 92239				
County:	San Bernardino				
Distance to roadways (meters):	13 (Campground Rd)				
Traffic Count (AADT,year)	Not available				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	non-EPA Federal				
Network affiliation(s)	CASTNET				
Instrument manufacturer and model	Thermo 491				
Method code	47				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	National Park Service				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	National Park Service				
Spatial scale	Regional				
Monitoring start date	10/1/1993				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	10.3				
Distance from supporting structure (meters)	N/A				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7.5				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/30/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name:	Lucerne Valley - Middle School				
AQS ID:	06-071-0013				
GPS Coordinates:	34.41008, -116.90687				
Street Address:	8560 Aliento Rd, Lucerne Valley, 92356				
County:	San Bernardino				
Distance to roadways (meters):	345 to CA-18				
Traffic Count (AADT,year)	8,100 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	PM10, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mojave Desert AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Mojave Desert AQMD				
Spatial scale	Neighborhood				
Monitoring start date	1/14/2015				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	4.7				
Distance from supporting structure (meters)	2.2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	N/A (No trees)				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	270				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	3/3/2022 9/21/2022				

Local Site Name:	Mojave National Preserve				
AQS ID:	06-071-1001				
GPS Coordinates:	35.10190, -115.77670				
Street Address:	47411 Canyon Back Rd, Kelso, 92309				
County:	San Bernardino				
Distance to roadways (meters):	30,800 to I-15				
Traffic Count (AADT,year)	42,000 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	Public Information				
Site type(s)	General Background				
Monitor type(s)	non-EPA Federal				
Network affiliation(s)	N/A				
Instrument manufacturer and model	2B Technologies M202				
Method code	190				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	National Park Service				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	National Park Service				
Spatial scale	Regional				
Monitoring start date	5/9/2007				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6				
Distance from supporting structure (meters)	N/A				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	never audited				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Unknown				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	never audited				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	Unknown				

*Last Sample Date was 10/31/2020; Site is not currently scheduled to be audited due to location, access, and power issues.

Local Site Name:	Phelan - Beekley Road & Phelan Road				
AQS ID:	06-071-0012				
GPS Coordinates:	34.42505, -117.58982				
Street Address:	Beekley and Phelan Rd, Phelan, 92371				
County:	San Bernardino				
Distance to roadways (meters):	1291 to CA-138, 17 to Beekley Rd				
Traffic Count (AADT,year)	19,400 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400T				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Mojave Desert AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Mojave Desert AQMD				
Spatial scale	Neighborhood				
Monitoring start date	07/01/1987				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	3.9				
Distance from supporting structure (meters)	1.1				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	N/A (No trees)				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	2.9				
Will there be changes within the next 18 months?	Yes				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Every 2 weeks				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/14/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name:	Trona - Athol/Telescope #2				
AQS ID:	06-071-1234				
GPS Coordinates:	35.77446, -117.37210				
Street Address:	Telescope & Athol, Trona, 93562				
County:	San Bernardino				
Distance to roadways (meters):	375 to CA-178				
Traffic Count (AADT,year)	2,300 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 2		
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary		
Parameter Code	42602	44201	81102		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Source Impact	Population Exposure	Highest Concentration; Source Impact		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 200U	Teledyne API 400T	Met One BAM 1020		
Method code	99	87	122		
FRM/FEM/ARM/Other	FRM	FEM	FEM		
Collecting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	04/01/1997	04/01/1997	6/1/1997		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	4	4	4.6		
Distance from supporting structure (meters)	1.2	1.2	>10		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>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 around probe/inlet or % 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	Teflon	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.5	7.6	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly		
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	Every 2 weeks	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	9/21/2022	9/21/2022	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	4/5/2022 9/21/2022		

Local Site Name:	Victorville - Park Avenue				
AQS ID:	06-071-0306				
GPS Coordinates:	34.51096, -117.32555				
Street Address:	14306 Park Av, Victorville, 92392				
County:	San Bernardino				
Distance to roadways (meters):	416 to CA-18; 416 to I-15				
Traffic Count (AADT,year)	40,000 (CA-18); 87,000 (I-15) (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1			
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A			
Parameter Code	42602	44201			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 200U	Teledyne API 400T			
Method code	99	87			
FRM/FEM/ARM/Other	FRM	FEM			
Collecting Agency	Mojave Desert AQMD	Mojave Desert AQMD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	01/01/2000	01/01/2000			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	7.3	7.3			
Distance from supporting structure (meters)	1.9	1.9			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	N/A (no trees)	N/A (no trees)			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	12.2	3/2/2022			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	Every 2 weeks			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	17.0	3/2/2022			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A			

Local Site Name:	Victorville - Park Avenue				
AQS ID:	06-071-0306				
GPS Coordinates:	34.51096, -117.32555				
Street Address:	14306 Park Av, Victorville, 92392				
County:	San Bernardino				
Distance to roadways (meters):	416 to CA-18; 416 to I-15				
Traffic Count (AADT,year)	40,000 (CA-18); 87,000 (I-15)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Riverside-San Bernardino-Ontario Metropolitan Statistical Area				
Pollutant, POC	PM10, 1	PM2.5, 1	PM2.5, 2		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	QA-Audit		
Parameter Code	81102	88101	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	Regional Transport; Population Exposure	Regional Transport; Population Exposure		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020		
Method code	122	170	170		
FRM/FEM/ARM/Other	FEM	FEM	FRM		
Collecting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	1/1/2014	1/1/2016	1/1/2000		
Current sampling frequency	Continuous	Continuous	1:6		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	7.4	7.5	7.5		
Distance from supporting structure (meters)	2	2.1	2.1		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	N/A (no trees)	N/A (no trees)	N/A (no trees)		
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A		
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	2	2		
Unrestricted airflow (degrees around probe/inlet or % 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)	N/A	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A		
Will there be changes within the next 18 months?	No	Yes	Yes		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes	Yes		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	Monthly		
Frequency of flow rate verification for automated PM analyzers	Monthly	Monthly	N/A		
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	3/2/2022 9/22/2022	3/2/2022 9/22/2022	3/2/2022 9/22/2022		

Northern Sierra AQMD

Local Site Name:	Chester				
AQS ID:	06-063-1007				
GPS Coordinates:	40.30965, -121.22785				
Street Address:	222 1st Ave, Chester 96020				
County:	Plumas				
Distance to roadways (meters):	133 to CA-36				
Traffic Count (AADT,year)	4,800 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	PM2.5, 4				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88502				
Basic monitoring objective(s)	Public Information				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	731				
FRM/FEM/ARM/Other	Other				
Collecting Agency	Northern Sierra AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Northern Sierra AQMD				
Spatial scale	Neighborhood				
Monitoring start date	3/1/2020				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	7.2				
Distance from supporting structure (meters)	>2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	No				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/10/2022 8/2/2022				

Local Site Name:	Grass Valley-Litton Building				
AQS ID:	06-057-0005				
GPS Coordinates:	39.23352, -121.05567				
Street Address:	200 Litton Dr., Suite 320, Grass Valley, 95945				
County:	Nevada				
Distance to roadways (meters):	1,256 to CA-20				
Traffic Count (AADT,year)	37,000 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Truckee-Grass Valley Micropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1022			
Method code	87	209			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Northern Sierra	Northern Sierra			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Northern Sierra	Northern Sierra			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	06/01/1993	12/6/2017			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	11.9	12.1			
Distance from supporting structure (meters)	3.8	4			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	270	270			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.0	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Weekly	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	7/25/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/9/2022 7/25/2022			

Local Site Name:	Portola				
AQS ID:	06-063-1010				
GPS Coordinates:	39.81336, -120.47069				
Street Address:	420 N Gulling St, Portola, 96122				
County:	Plumas				
Distance to roadways (meters):	317 to CA-70				
Traffic Count (AADT,year)	6,600 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	PM2.5, 1	PM2.5, 2	PM2.5, 4		
Primary, QA-Audit, Supplementary, or N/A	Primary	QA-Audit	Primary		
Parameter Code	88101	88101	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS; Public Info		
Site type(s)	Population Exposure	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	CSN supplemental	CSN supplemental	CSN supplemental		
Instrument manufacturer and model	Thermo Scientific Partisol 2025i	Thermo Scientific Partisol 2025i	Met One BAM 1022		
Method code	145	145	209		
FRM/FEM/ARM/Other	FRM	FRM	FEM		
Collecting Agency	Northern Sierra AQMD	Northern Sierra AQMD	Northern Sierra AQMD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB	ARB	N/A		
Reporting Agency	ARB	ARB	Northern Sierra AQMD		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	7/1/2013	10/30/2015	10/1/2022		
Current sampling frequency	1:3	1:12	Continuous		
Required sampling frequency including exceptional events	1:3	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	7.4	7.4	8.3		
Distance from supporting structure (meters)	2.2	2.2	3		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>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)	2.67	2.67	3		
Unrestricted airflow (degrees around probe/inlet or % 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)	N/A	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A		
Will there be changes within the next 18 months?	clsoed 11/1/2022	clsoed 8/9/2022	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes	Yes	No		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly	Monthly	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly		
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/11/2022 8/2/2022	2/11/2022 8/2/2022	2/11/2022 8/2/2022		

Local Site Name:	Quincy-N Church Street				
AQS ID:	06-063-1006				
GPS Coordinates:	39.93957, -120.94438				
Street Address:	267 N Church Street, Quincy, 95971				
County:	Plumas				
Distance to roadways (meters):	270 to CA-70; 492 to CA-70				
Traffic Count (AADT,year)	4,800 (CA-70); 9,800 (CA-70) (2015)				
Ground Cover:	Grass				
Representative statistical area name (i.e. MSA, CBSA, other):	None				
Pollutant, POC	PM2.5, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	88101	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Thermo Scientific Partisol 2025i	Met One BAM 1022			
Method code	118	209			
FRM/FEM/ARM/Other	FRM	FEM			
Collecting Agency	Northern Sierra AQMD	Northern Sierra AQMD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB	N/A			
Reporting Agency	ARB	Northern Sierra AQMD			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	03/26/1999	10/1/2022			
Current sampling frequency	1:1	Continuous			
Required sampling frequency including exceptional events	1:1	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	3.5	12.1			
Distance from supporting structure (meters)	2	4			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A			
Will there be changes within the next 18 months?	Closed August 2022	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
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	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/10/2022 8/2/2022	2/10/2022 8/2/2022			

Local Site Name:	Truckee - Fire Station				
AQS ID:	06-057-1001				
GPS Coordinates:	39.32782, -120.18459				
Street Address:	10049 Donner Pass Rd, Truckee, 96161				
County:	Nevada				
Distance to roadways (meters):	825 to I-80				
Traffic Count (AADT,year)	33,000 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Truckee-Grass Valley Micropolitan Statistical Area				
Pollutant, POC	PM2.5, 1	PM2.5, 4			
Primary, QA-Audit, Supplementary, or N/A	Primary	Supplementary			
Parameter Code	88101	88502			
Basic monitoring objective(s)	NAAQS	Public Information			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	Other			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Thermo Scientific Partisol 2025i	Met One BAM 1020			
Method code	145	731			
FRM/FEM/ARM/Other	FRM	Other			
Collecting Agency	Northern Sierra AQMD	Northern Sierra AQMD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB	N/A			
Reporting Agency	ARB	Northern Sierra AQMD			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	03/31/1999	1/1/2007			
Current sampling frequency	1:3	Continuous			
Required sampling frequency including exceptional events	1:3	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	8.3	10.2			
Distance from supporting structure (meters)	2.2	2.2			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
Distance to furnace or incinerator flue (meters)	N/A	N/A			
Distance between monitors fulfilling a QA collocation requirement (meters)	4	N/A			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A			
Will there be changes within the next 18 months?	Closed June 2022	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
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	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	2/9/2022 n/a	2/9/2022 7/25/2022			

Northern Sonoma County APCD

Local Site Name	Cloverdale				
AQS ID	06-097-0001				
GPS Coordinates	38.80423, -123.01820				
Street Address	100 S. Washington St, Cloverdale, 95425				
County	Sonoma				
Distance to roadways (meters)	623 to US-101				
Traffic Count (AADT,year)	15,400 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Santa Rosa Metropolitan Statistical Area				
Pollutant, POC	PM10, 2				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Northern Sonoma				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	1/1/1990				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	5.9				
Distance from supporting structure (meters)	2.4				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/24/2022 11/16/2022				

Local Site Name	Guerneville-Church and 1st				
AQS ID	06-097-3002				
GPS Coordinates	38.50107, -122.99819				
Street Address	16255 1st Street Guerneville, 95446				
County	Sonoma				
Distance to roadways (meters)	160 to CA-116				
Traffic Count (AADT,year)	9,000 (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Santa Rosa Metropolitan Statistical Area				
Pollutant, POC	PM10, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Northern Sonoma				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	4/1/1990				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	5				
Distance from supporting structure (meters)	2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/24/2022 11/16/2022				

Local Site Name:	Healdsburg - Matheson				
AQS ID:	06-097-0002				
GPS Coordinates:	38.61090, -122.86878				
Street Address:	133 Matheson St, Healdsburg, 95448				
County:	Sonoma				
Distance to roadways (meters):	540 to US-101				
Traffic Count (AADT,year)	40,500 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Santa Rosa Metropolitan Statistical Area				
Pollutant, POC	PM10, 2				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	General Background				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Met One BAM 1020				
Method code	122				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Northern Sonoma				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Urban				
Monitoring start date	5/21/1998				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6.5				
Distance from supporting structure (meters)	2.5				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/24/2022 11/16/2022				

Placer County APCD

Local Site Name:	Auburn - Atwood Rd				
AQS ID:	06-061-0003				
GPS Coordinates:	38.93568, -121.09959				
Street Address:	11645 Atwood Rd., Auburn, 95603				
County:	Placer				
Distance to roadways (meters):	446 to CA-49				
Traffic Count (AADT,year)	39,000 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 1			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Met One BAM1020			
Method code	87	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Placer County	Placer County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	CARB	CARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	06/24/2011	1/1/2012			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	5.8	7			
Distance from supporting structure (meters)	2.8	4			
Distance from obstructions on roof (meters)	No obstacles	No obstacles			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstacles	No obstacles			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.5	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Every 8-10 days	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/10/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/7/2022 8/10/2022			

Local Site Name:	Colfax-City Hall				
AQS ID:	06-061-0004				
GPS Coordinates:	39.09979, -120.95391				
Street Address:	33 S. Main St., Colfax, 95713				
County:	Placer				
Distance to roadways (meters):	404 to CA-174; 567 to I-80				
Traffic Count (AADT,year)	6,100 (CA-174); 27,600 (I-80) (2015)				
Ground Cover:	Paved				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	88502			
Basic monitoring objective(s)	NAAQS	Public Information			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	Other			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Met One BAM1020			
Method code	87	731			
FRM/FEM/ARM/Other	FEM	Other			
Collecting Agency	Placer County	Placer County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	CARB	CARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	01/01/1992	1/1/2012			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	6.7	7.5			
Distance from supporting structure (meters)	1.4	2.2			
Distance from obstructions on roof (meters)	No obstructions	No obstacles			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstacles			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.1	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Every 8-10 days	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/9/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/8/2022 8/9/2022			

Local Site Name:	Lincoln-Moore Road				
AQS ID:	06-061-2003				
GPS Coordinates:	38.86794, -121.33835				
Street Address:	2885 Moore Road, Lincoln, 95648				
County:	Placer				
Distance to roadways (meters):	20 to Moore Road				
Traffic Count (AADT,year)	500 (2019)				
Ground Cover:	Grass				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	88502			
Basic monitoring objective(s)	NAAQS	Public Information			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	Other			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Met One BAM1020			
Method code	87	731			
FRM/FEM/ARM/Other	FEM	Other			
Collecting Agency	Placer County	Placer County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	CARB	CARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	11/1/2018	11/1/2018			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	3.6	4.4			
Distance from supporting structure (meters)	1.1	2.2			
Distance from obstructions on roof (meters)	No obstructions	No obstacles			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.9	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Every 8-10 days	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/8/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/7/2022 8/8/2022			

Local Site Name:	Tahoe City-Fairway Drive				
AQS ID:	06-061-1004				
GPS Coordinates:	39.16602, -120.14883				
Street Address:	221 Fairway Drive, Tahoe City, 96145				
County:	Placer				
Distance to roadways (meters):	280 to CA- 89; 377 to CA-28				
Traffic Count (AADT,year)	10,800 (CA- 89); 11,800 (CA-28) (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	88502			
Basic monitoring objective(s)	NAAQS	Public Information			
Site type(s)	General Background	General Background			
Monitor type(s)	SLAMS	Other			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Met One BAM1020			
Method code	87	731			
FRM/FEM/ARM/Other	FEM	Other			
Collecting Agency	Placer County	Placer County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	CARB	CARB			
Spatial scale	Urban	Urban			
Monitoring start date	11/01/2013	11/01/2013			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	3.6	4.4			
Distance from supporting structure (meters)	1.2	2			
Distance from obstructions on roof (meters)	No obstructions	No obstacles			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstacles			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.5	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	No			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Every 8-10 days	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/12/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	2/8/2022 8/12/2022			

Local Site Name:	Roseville-N Sunrise Ave				
AQS ID:	06-061-0006				
GPS Coordinates:	38.74643, -121.26498				
Street Address:	151 N Sunrise Ave, Roseville, 95661				
County:	Placer				
Distance to roadways (meters):	330 to I-80				
Traffic Count (AADT,year)	175,500 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	Supplementary	
Parameter Code	42602	44201	81102	88502	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	Public Information	
Site type(s)	Population Exposure	Highest Concentration	Highest Concentration	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	Other	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Thermo 42i	Teledyne API 400	Met One BAM 1020	Met One BAM 1020	
Method code	74	87	122	731	
FRM/FEM/ARM/Other	FRM	FEM	FEM	Other	
Collecting Agency	CARB	CARB	CARB	CARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	CARB	CARB	CARB	CARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	01/13/1993	01/13/1993	4/1/2015	6/23/2004	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	8.5	8.5	7.9	7.9	
Distance from supporting structure (meters)	3.5	3.5	2.9	2.9	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters	>10 meters	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.5	14.6	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	No	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly	Monthly	
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	4/20/2022	4/20/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	4/20/2022 10/27/2022	4/20/2022 10/27/2022	

Shasta County AQMD

Local Site Name	Anderson-North Street				
AQS ID	06-089-0007				
GPS Coordinates	40.45318, -122.29883				
Street Address	2220 North St, Anderson, 96007				
County	Shasta				
Distance to roadways (meters)	717 to CA-273; 818 to I-5				
Traffic Count (AADT,year)	8,600 (CA-273); 51,000 (I-5) (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Redding Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Shasta County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Shasta County				
Spatial scale	Neighborhood				
Monitoring start date	05/01/1993				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	7				
Distance from supporting structure (meters)	3				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	12.6				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	weekly				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/15/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Lassen Volcanic NP				
AQS ID	06-089-3003				
GPS Coordinates	40.539991, -121.576462				
Street Address	Manzanita Lake RS, Lassen Volcanic NP				
County	Shasta				
Distance to roadways (meters)	778 to CA-44				
Traffic Count (AADT,year)	1,150 (2015)				
Ground Cover	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other)	Redding Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS & Research				
Site type(s)	General Background				
Monitor type(s)	Non-EPA Federal				
Network affiliation(s)	CASTNET				
Instrument manufacturer and model	Thermo 49C				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	National Park Service				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	National Park Service				
Spatial scale	Regional				
Monitoring start date	11/1/1987				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	8				
Distance from supporting structure (meters)	N/A				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	8 (Tree) *				
Height above probe for obstructions not on roof (meters)	15				
Distance to nearest tree drip line (meters)	7.5 *				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	11.5				
Frequency of flow rate verification for automated PM analyzers	N/A		Notes:		
Frequency of one-point QC check for gaseous instruments	Daily		* Distance to tree is 8m; height unknown. Waiver (EPA) was granted in 2014.		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/15/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name:	Redding - Health Department				
AQS ID:	06-089-0004				
GPS Coordinates:	40.55013, -122.38092				
Street Address:	2630 Breslauer Way, Redding, 96001				
County:	Shasta				
Distance to roadways (meters):	530 to CA-273				
Traffic Count (AADT,year)	19,200 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Redding Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 2	PM2.5, 1	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Supplementary	Primary	
Parameter Code	44201	81102	88101	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure; Highest Concentration	Highest Concentration	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400	Sierra Andersen 1200	R & P 2000	Met One BAM 1022	
Method code	87	63	143	209	
FRM/FEM/ARM/Other	FEM	FRM	FRM	FEM	
Collecting Agency	Shasta County	Shasta County	Shasta County	Shasta County	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	ARB	ARB	N/A	
Reporting Agency	Shasta County	ARB	ARB	Shasta County	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	05/01/1990	01/01/1988	02/19/1998	2/23/2019	
Current sampling frequency	Continuous	1:6	1:12	Continuous	
Required sampling frequency including exceptional events	N/A	1:6	1:12	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	9.6	8.3	8.7	9	
Distance from supporting structure (meters)	3	>2	>2	>2	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	
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	>2	
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, Pyrex Borosilicate	N/A	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7.2	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	Yes	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes	No	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Quarterly	Monthly	Monthly	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A	
Frequency of one-point QC check for gaseous instruments	Weekly	N/A	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/16/2022	N/A	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/16/2022 8/23/2022	3/16/2022 8/23/2022	3/16/2022 8/23/2022	

Local Site Name:	Shasta Lake - Lake Blvd				
AQS ID:	06-089-0009				
GPS Coordinates:	40.68908, -122.40226				
Street Address:	13791 Lake Blvd., Shasta Lake, 96019				
County:	Shasta				
Distance to roadways (meters):	259 to CA-151				
Traffic Count (AADT,year)	1,650 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Redding Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	N/A				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 265				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Shasta County				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	Shasta County				
Spatial scale	Neighborhood				
Monitoring start date	04/01/2009				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	5.1				
Distance from supporting structure (meters)	1.5				
Distance from obstructions on roof (meters)	no obstructions *				
Height above probe for obstructions on roof (meters)	1.5				
Distance from obstructions not on roof (meters)	no obstructions *				
Height above probe for obstructions not on roof (meters)	30.5				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, Pyrex Borosilicate				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	15.5				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A		Notes: * Cell tower is not considered an obstruction. Distance to probe is 6m.		
Frequency of one-point QC check for gaseous instruments	weekly				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/16/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Siskiyou County APCD

Local Site Name	Yreka				
AQS ID	06-093-2001				
GPS Coordinates	41.72679, -122.63359				
Street Address	530 S. Foothill Dr., Yreka, 96097				
County	Siskiyou				
Distance to roadways (meters)	437 to I-5; 496 to CA-3				
Traffic Count (AADT,year)	16,500 (I-5); 8,700 (CA-3) (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	None				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary following POC 1 shutdown			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Highest Conc; Regional Transport; Pop. Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400E	Met One BAM 1020			
Method code	87	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Siskiyou County	Siskiyou County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	Siskiyou County			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	01/01/1981	7/1/2018			
Current sampling frequency	Continuous	Continuous			
Monitoring start date	01/01/1981	7/1/2018			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	3.4	3.7			
Distance from supporting structure (meters)	N/A	N/A			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	3.5	N/A			
Will there be changes within the next 18 months?	NO	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Biweekly			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Daily	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/17/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/17/2022 8/24/2022			

Tehama County APCD

Local Site Name	Red Bluff - Walnut Street				
AQS ID	06-103-0007				
GPS Coordinates	40.17088, -122.25556				
Street Address	1834 Walnut Street, Red Bluff, 96080				
County	Tehama				
Distance to roadways (meters)	1,860 to CA-36				
Traffic Count (AADT,year)	11,400 (2015)				
Ground Cover	Grass				
Representative statistical area name (i.e. MSA, CBSA, other)	Red Bluff Micropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 1	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Primary		
Parameter Code	44201	81102	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	Highest Concentration	General Background		
Monitor type(s)	SLAMS	SLAMS	SLAMS		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	Sierra Anderson 1200	Met One BAM1020		
Method code	87	63	170		
FRM/FEM/ARM/Other	FEM	FRM	FEM		
Collecting Agency	Tehama County APCD	Tehama County APCD	Tehama County APCD		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	CARB	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	1/29/2015	1/24/2015	3/1/2016		
Current sampling frequency	Continuous	1:6	Continuous		
Required sampling frequency including exceptional events	N/A	1:6	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	6.9	6.3	7.2		
Distance from supporting structure (meters)	2.4	>2	2.7		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	17	>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 around probe/inlet or % 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)	Pyrex, borosilicate glass	N/A	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.1	N/A	N/A		
Will there be changes within the next 18 months?	No	Yes	Yes		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Monthly	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly		
Frequency of one-point QC check for gaseous instruments	Weekly	N/A	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/14/2022	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/14/2022 8/22/2022	3/14/2022 8/22/2022		

Local Site Name	Tuscan Butte (seasonal)				
AQS ID	06-103-0004				
GPS Coordinates	40.26207, -122.09265				
Street Address	Fire Lookout Atop Tuscan Butte, Tuscan Butte, 95080				
County	Tehama				
Distance to roadways (meters)	3,076 to CA-36				
Traffic Count (AADT,year)	1,200 (2015)				
Ground Cover	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other)	Red Bluff Micropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Regional				
Monitoring start date	06/01/1995				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	Apr-Oct				
Probe height (meters)	4.3				
Distance from supporting structure (meters)	1.1				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	N/A (No trees)				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	5.7				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/9/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Tuolumne County APCD

Local Site Name:	Sonora - Barretta Street				
AQS ID:	06-109-0005				
GPS Coordinates:	37.98178, -120.37855				
Street Address:	251 S. Barretta St, Sonora, 95370				
County:	Tuolumne				
Distance to roadways (meters):	355 to CA-49				
Traffic Count (AADT,year)	18,300 (2015)				
Ground Cover:	Gravel				
Representative statistical area name (i.e. MSA, CBSA, other):	Sonora Micropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API 400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	CARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	CARB				
Spatial scale	Neighborhood				
Monitoring start date	07/01/1992				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	4.8				
Distance from supporting structure (meters)	1.0				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.0				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Monthly				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/15/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Ventura County APCD

Local Site Name:	El Rio-Rio Mesa School #2				
AQS ID:	06-111-3001				
GPS Coordinates:	34.25239, -119.14318				
Street Address:	545 Central Av, El Rio, 93030				
County:	Ventura				
Distance to roadways (meters):	1,116 to CA-232				
Traffic Count (AADT,year)	14,600 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Oxnard-Thousand Oaks-Ventura Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	N/A	
Parameter Code	42602	44201	81102	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	PAMS	PAMS	N/A	N/A	
Instrument manufacturer and model	Teledyne API 200	Teledyne API 400	Met One BAM 1020	Met One BAM 1020	
Method code	99	87	122	170	
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	
Collecting Agency	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD	
Spatial scale	Urban	Urban	Neighborhood	Neighborhood	
Monitoring start date	01/01/1980	01/01/1979	07/22/2012	01/26/2012	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	4.4	4.4	4.6	4.7	
Distance from supporting structure (meters)	1.9	1.9	2.1	2.2	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, borosilicate glass	Teflon, borosilicate glass	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.2	11.6	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Biweekly	Biweekly	
Frequency of one-point QC check for gaseous instruments	Every Other Day	Every Other Day	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/16/2022	11/16/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	4/27/2022 11/16/2022	4/27/2022 11/16/2022	

Local Site Name:	Ojai - East Ojai Ave				
AQS ID:	06-111-1004				
GPS Coordinates:	34.44806, -119.23130				
Street Address:	1201 E. Ojai Ave, Ojai, 93023				
County:	Ventura				
Distance to roadways (meters):	366 to CA-150				
Traffic Count (AADT,year)	6,500 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Oxnard-Thousand Oaks-Ventura Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Method code	87	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Ventura County APCD	Ventura County APCD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Ventura County APCD	Ventura County APCD			
Spatial scale	Urban	Neighborhood			
Monitoring start date	04/01/1996	11/29/2011			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	4.4	4.8			
Distance from supporting structure (meters)	1.9	2.3			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	None			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, borosilicate glass	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	11.2	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Biweekly			
Frequency of one-point QC check for gaseous instruments	Every Other Day	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/9/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/27/2022 11/9/2022			

Local Site Name:	Piru - Pacific				
AQS ID:	06-111-0009				
GPS Coordinates:	34.40428, -118.80998				
Street Address:	3301 Pacific Ave, Piru, 93040				
County:	Ventura				
Distance to roadways (meters):	403 to CA-126				
Traffic Count (AADT,year)	23,500 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Oxnard-Thousand Oaks-Ventura Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Highest Concentration			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Method code	87	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Ventura County APCD	Ventura County APCD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Ventura County APCD	Ventura County APCD			
Spatial scale	Urban	Neighborhood			
Monitoring start date	11/03/2000	11/15/2011			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	4.4	4.9			
Distance from supporting structure (meters)	1.8	2.3			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, borosilicate glass	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.5	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Biweekly			
Frequency of one-point QC check for gaseous instruments	Every Other Day	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/9/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/27/2022 11/9/2022			

Local Site Name:	Simi Valley - Cochran Street				
AQS ID:	06-111-2002				
GPS Coordinates:	34.27632, -118.68369				
Street Address:	5400 Cochran St, Simi Valley, 93063				
County:	Ventura				
Distance to roadways (meters):	758 to CA-118				
Traffic Count (AADT,year)	125,000 (2015)				
Ground Cover:	Paved				
Representative statistical area name (i.e. MSA, CBSA, other):	Oxnard-Thousand Oaks-Ventura Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	PM2.5, 4
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	Primary	QA-Audit
Parameter Code	42602	44201	81102	88101	88101
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	Public Information
Site type(s)	Highest Concentration	Highest Concentration	Population Exposure	Highest Concentration	Highest Concentration
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	PAMS	PAMS	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 200	Teledyne API 400	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020
Method code	99	87	122	170	170
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	FEM
Collecting Agency	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	N/A
Reporting Agency	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD	Ventura County APCD
Spatial scale	Urban	Urban	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	06/01/1985	06/01/1985	06/19/2012	06/29/2013	03/17/2014
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	Continuous
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	N/A
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	3.6	3.6	4.6	4.8	4.8
Distance from supporting structure (meters)	1.1	1.1	2.1	2.3	2.3
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	No obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	>10
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	None	None
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A	N/A	2.1	2.1
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, borosilicate glass	Teflon, borosilicate glass	N/A	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	11.6	9.9	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No	No
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	Yes
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Biweekly	Biweekly	Biweekly
Frequency of one-point QC check for gaseous instruments	Every Other Day	Every Other Day	N/A	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/15/2022	11/15/2022	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	4/26/2022 11/15/2022	4/26/2022 11/15/2022	4/26/2022 11/15/2022

Local Site Name:	Thousand Oaks-Moorpark Road				
AQS ID:	06-111-0007				
GPS Coordinates:	34.21017, -118.87051				
Street Address:	2323 Moorpark Rd, Thousand Oaks, 91360				
County:	Ventura				
Distance to roadways (meters):	1,622 to CA-23				
Traffic Count (AADT,year)	112,000 (2015)				
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Oxnard-Thousand Oaks-Ventura Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM2.5, 3			
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A			
Parameter Code	44201	88101			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Method code	87	170			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	Ventura County APCD	Ventura County APCD			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	Ventura County APCD	Ventura County APCD			
Spatial scale	Urban	Neighborhood			
Monitoring start date	03/01/1992	01/07/2012			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	4.4	4.9			
Distance from supporting structure (meters)	1.8	2.3			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon, borosilicate glass	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.3	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Biweekly			
Frequency of one-point QC check for gaseous instruments	Every Other Day	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/14/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/26/2022 11/14/2022			

Yolo-Solano AQMD

Local Site Name:	Davis-UCD Campus				
AQS ID:	06-113-0004				
GPS Coordinates:	38.53455, -121.77340				
Street Address:	Campbell Rd, Davis, 95616				
County:	Yolo				
Distance to roadways (meters):	502 to CA-113				
Traffic Count (AADT,year)	39,300 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	NO2, 1	Ozone, 1	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary		
Parameter Code	42602	44201	88502		
Basic monitoring objective(s)	NAAQS	NAAQS	Public Information		
Site type(s)	Population Exposure	Population Exposure	Population Exposure		
Monitor type(s)	SLAMS	SLAMS	Other		
Network affiliation(s)	N/A	N/A	N/A		
Instrument manufacturer and model	Thermo 42iQ	Teledyne API 400	Met One BAM 1020		
Method code	74	87	731		
FRM/FEM/ARM/Other	FRM	FEM	Other		
Collecting Agency	CARB	CARB	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A		
Reporting Agency	CARB	CARB	CARB		
Spatial scale	Neighborhood	Neighborhood	Neighborhood		
Monitoring start date	05/21/1996	09/01/1987	8/14/2003		
Current sampling frequency	Continuous	Continuous	Continuous		
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Probe height (meters)	5.1	5.1	5.4		
Distance from supporting structure (meters)	1.7	1.7	2		
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A		
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions		
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A		
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters		
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 % 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	Teflon	N/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.0	9.8	N/A		
Will there be changes within the next 18 months?	No	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	No		
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A		
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly		
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A		
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	12/6/2022	12/6/2022	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	2/22/2022 9/20/2022		

Local Site Name:	Vacaville-Merchant Street				
AQS ID:	06-095-3001				
GPS Coordinates:	38.35140, -121.99410				
Street Address:	650 Merchant St, Vacaville, 95688				
County:	Solano				
Distance to roadways (meters):	607 to I-80				
Traffic Count (AADT,year)	174,000 (2015)				
Ground Cover:	Grass and asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):	Vallejo-Fairfield Metropolitan Statistical Area				
Pollutant, POC	PM10, 2				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	GMW Model 1200				
Method code	63				
FRM/FEM/ARM/Other	FRM				
Collecting Agency	Yolo-Solano AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	01/01/1988				
Current sampling frequency	1:6				
Required sampling frequency including exceptional events	1:6				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	8.5				
Distance from supporting structure (meters)	>2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/12/2022 10/19/2022				

Local Site Name:	Vacaville-Ulatis Drive				
AQS ID:	06-095-3003				
GPS Coordinates:	38.35655, -121.94986				
Street Address:	2012 Ulatis Drive, Vacaville, 95687				
County:	Solano				
Distance to roadways (meters):	1,500 to I-80				
Traffic Count (AADT,year)	169,000 (2015)				
Ground Cover:	Dirt				
Representative statistical area name (i.e. MSA, CBSA, other):	Vallejo-Fairfield Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure; Highest Concentration				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Teledyne API T400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	Yolo-Solano AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	07/21/2003				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	4.4				
Distance from supporting structure (meters)	2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.6				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Weekly				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/11/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name:	West Sacramento-15th Street				
AQS ID:	06-113-2001				
GPS Coordinates:	38.57146, -121.52579				
Street Address:	132 W. 15th St, West Sacramento, 95691				
County:	Yolo				
Distance to roadways (meters):	1,338 to I-5; 1,338 to US-50				
Traffic Count (AADT,year)	179,000 (2015)				
Ground Cover:	Pavement				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	PM10, 1				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	81102				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	GMW Model 1200				
Method code	63				
FRM/FEM/ARM/Other	FRM				
Collecting Agency	Yolo-Solano AQMD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	09/01/1990				
Current sampling frequency	1:6				
Required sampling frequency including exceptional events	1:6				
Sampling season	1-Jan - 31-Dec				
Probe height (meters)	6.1				
Distance from supporting structure (meters)	>2				
Distance from obstructions on roof (meters)	No obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	5/12/2022 10/19/2022				

Local Site Name:	Woodland-Gibson Road				
AQS ID:	06-113-1003				
GPS Coordinates:	38.66121, -121.73269				
Street Address:	41929 E Gibson Rd, Woodland, 95776				
County:	Yolo				
Distance to roadways (meters):	1,442 to I-5; 1,642 to CA-113				
Traffic Count (AADT,year)	47,300 (2015)				
Ground Cover:	Grass				
Representative statistical area name (i.e. MSA, CBSA, other):	Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 1	PM2.5, 1	PM2.5, 2	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Supplementary	
Parameter Code	44201	81102	88101	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API T400	GMW Model 1200	R & P 2025	Met One BAM 1020	
Method code	87	63	145	170	
FRM/FEM/ARM/Other	FEM	FRM	FRM	FEM	
Collecting Agency	Yolo-Solano AQMD	Yolo-Solano AQMD	Yolo-Solano AQMD	Yolo-Solano AQMD	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	ARB	ARB	N/A	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	05/27/1998	10/26/1998	01/09/1999	12/12/2022	
Current sampling frequency	Continuous	1:6	1:6	Continuous	
Required sampling frequency including exceptional events	N/A	1:6	1:6	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	3.6	2.2	2.1	4.8	
Distance from supporting structure (meters)	1	>2	2	2.3	
Distance from obstructions on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No obstructions	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	9.7	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	Yes	Yes	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Monthly	Monthly	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Monthly	
Frequency of one-point QC check for gaseous instruments	Weekly	N/A	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/11/2022	N/A	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	5/11/2022 10/19/2022	5/11/2022 10/19/2022	no audit yet	

San Joaquin Valley APCD

*CARB operated sites outside of the CARB ANP

Local Site Name	Arvin–Di Giorgio				
AQS ID	06-029-5002				
GPS Coordinates	35.2391 N, -118.7886 W				
Street Address	19405 Buena Vista Blvd, Arvin CA 93203				
County	Kern				
Distance to roadways (meters)	10 m (east)				
Traffic Count (AADT,year)	712/2018 (Traffic count for Buena Vista Blvd east of Tejon Hwy., Source: Kern Council of Governments.)				
Ground Cover	Dirt, vegetative				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	Ozone				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	44201				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	UNOFFICIAL PAMS				
Instrument manufacturer and model	Teledyne API T400				
Method code	87				
FRM/FEM/ARM/Other	FEM				
Collecting Agency	ARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	11/16/2009				
Current sampling frequency	Continuous				
Required sampling frequency including exceptional events	N/A				
Sampling season	1-Jan-31-Dec				
Probe height (meters)	4.4				
Distance from supporting structure (meters)	1.8				
Distance from obstructions on roof (meters)	No Obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	No Obstructions				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10 meters				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Frequency of flow rate verification for automated PM analyzers	N/A				
Frequency of one-point QC check for gaseous instruments	Daily				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/18/2022				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				

Local Site Name	Bakersfield - Airport				
AQS ID	06-029-0016				
GPS Coordinates	35.3246 N, -118.9976 W				
Street Address	401 E. Planz Rd., Bakersfield CA 93307				
County					
Distance to roadways (meters)	500 m (west)				
Traffic Count (AADT,year)	17,987 / 2018 (S. Union Ave between E. Planz Rd and E White Lane, Source: Kern Council of Governments)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	PM2.5				
Primary, QA-Audit, Supplementary, or N/A	Primary				
Parameter Code	88101				
Basic monitoring objective(s)	NAAQS				
Site type(s)	Population Exposure				
Monitor type(s)	SLAMS				
Network affiliation(s)	N/A				
Instrument manufacturer and model	Thermo 2025i				
Method code	145				
FRM/FEM/ARM/Other	FRM				
Collecting Agency	ARB				
Analytical Lab (i.e. weigh lab, toxics lab, other)	ARB				
Reporting Agency	ARB				
Spatial scale	Neighborhood				
Monitoring start date	2/18/2000				
Current sampling frequency	1:3				
Required sampling frequency including exceptional events	0.04375				
Sampling season	1-Jan-31-Dec				
Probe height (meters)	2.2				
Distance from supporting structure (meters)	0				
Distance from obstructions on roof (meters)	No Obstructions				
Height above probe for obstructions on roof (meters)	N/A				
Distance from obstructions not on roof (meters)	N/A				
Height above probe for obstructions not on roof (meters)	N/A				
Distance to nearest tree drip line (meters)	>10m				
Distance to furnace or incinerator flue (meters)	N/A				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	Yes				
Frequency of flow rate verification for manual PM samplers, including Pb samplers	Monthly				
Frequency of flow rate verification for automated PM analyzers	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	3/24/2022 9/13/2022				

Local Site Name	Bakersfield–California				
AQS ID	06-029-0014				
GPS Coordinates	35.35662, -119.06261				
Street Address	5558 California Ave., Bakersfield CA 93309				
County	Kern				
Distance to roadways (meters)	300 m (south)				
Traffic Count (AADT,year)	33,244/2017				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	Ozone	NO2			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	42602			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	General/Background	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Thermo 42 IQ			
Method code	87	74			
FRM/FEM/ARM/Other	FEM	FRM			
Collecting Agency	ARB	ARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	3/1/1994	4/1/1994			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec			
Probe height (meters)	6.8	6.8			
Distance from supporting structure (meters)	3	3			
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	N/A	N/A			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10m	>10m			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	6.9	7.1			
Will there be changes within the next 18 months?	No	NO			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	5 Days/Week	5 Days/Week			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	9/13/2022	9/13/2022			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A			

(Continued)

Local Site Name	Bakersfield–California				
AQS ID	06-029-0014				
GPS Coordinates	35.35662, -119.06261				
Street Address	5558 California Ave., Bakersfield CA 93309				
County	Kern				
Distance to roadways (meters)	300 m (south)				
Traffic Count (AADT,year)	33,244/2017				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	PM10	PM2.5	PM2.5	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	QA-Collocated	
Parameter Code	81102	88502	88101	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	Thermo 2025i	Thermo 2025i	
Method code	122	731	145	145	
FRM/FEM/ARM/Other	FEM	Non-FEM	FRM	FRM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	ARB	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/27/2021	1/27/2021	1/1/1999	36161	
Current sampling frequency	Continuous	Continuous	1:1	1:12	
Required sampling frequency including exceptional events	N/A	N/A	N/A		
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	6.3	6.6	6.3	6.3	
Distance from supporting structure (meters)	2.5	2.8	2.5	2.5	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	NA	N/A	N/A	
Distance to nearest tree drip line (meters)	> 10m	> 10m	> 10m	> 10m	
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	> 2M	> 2M	
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A		Monthly	Monthly	
Frequency of flow rate verification for automated PM analyzers	Semi-Monthly	Semi-Monthly	N/A	N/A	
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	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	3/23/2022 9/13/2022	3/23/2022 9/13/2022	3/23/2022 9/13/2022	3/23/2022 9/13/2022	

Local Site Name	Edison				
AQS ID	06-029-0007				
GPS Coordinates	35.3456 N, -118.8518 W				
Street Address	Johnson Farm-Shed Rd, Edison CA				
County	Kern				
Distance to roadways (meters)	450 m (south)				
Traffic Count (AADT,year)	2,753/2020 (Traffic count for nearest roads: Edison Hwy. and Comanche Dr.,				
Ground Cover	Dirt, vegetative				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	Ozone,1	NO2,1			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	42602			
Basic monitoring objective(s)	NAAQS, Research, Public Info.	NAAQS, Research, Public Info.			
Site type(s)	Highest Concentration, Regional Transport	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E			
Method code	87	99			
FRM/FEM/ARM/Other	FEM	FRM			
Collecting Agency	ARB	ARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	1/1/1981	1/1/1980			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	01/01 – 12/31	01/01 – 12/31			
Probe height (meters)	5.4	5.4			
Distance from supporting structure (meters)	1.5	1.5			
Distance from obstructions on roof (meters)	None	None			
Height above probe for obstructions on roof (meters)	None	None			
Distance from obstructions not on roof (meters)	None	None			
Height above probe for obstructions not on roof (meters)	None	None			
Distance to nearest tree drip line (meters)	16.1	16.1			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.5	14.5			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	7.7	7.9			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	Daily	Daily			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/31/2022	8/31/2022			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A			

Local Site Name	Fresno – Garland				
AQS ID	06-019-0011				
GPS Coordinates	36.7853 N, -119.7732 W				
Street Address	3727 N. First St., Ste.104, Fresno CA 93726				
County	Fresno				
Distance to roadways (meters)	30 m (south)				
Traffic Count (AADT,year)	7,520/2011 (First Street near Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Fresno				
Pollutant, POC	Ozone	NO2	CO	SO2	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	
Parameter Code	44201	42602	42101	42401	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	NCore	Ncore	Ncore	Ncore	
Instrument manufacturer and model	Teledyne API T400	Thermo 42IQ	Teledyne API T300	Thermo 43IQ	
Method code	87	74	593	560	
FRM/FEM/ARM/Other	FEM	FRM	FRM	FEM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Urban	Urban	Urban	Urban	
Monitoring start date	12/23/2011	2/1/2012	1/18/2012	1/18/2012	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	6.8	6.8	6.6	6.6	
Distance from supporting structure (meters)	2.8	2.8	2.8	2.8	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	N/A	N/A	N/A	N/A	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	Teflon	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	17.3		13.4	15	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A	
Frequency of one-point QC check for gaseous instruments	5 Times/Week	5 Times/Week	5 Times/Week	5 Times/Week	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/10/2022	Unit malfunctioned prior to audit	2/3/2022	2/3/2022	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	N/A	N/A	

(continued)

Local Site Name	Fresno – Garland				
AQS ID	06-019-0011				
GPS Coordinates	36.7853 N, -119.7732 W				
Street Address	3727 N. First St., Ste.104, Fresno CA 93726				
County	Fresno				
Distance to roadways (meters)	30 m (south)				
Traffic Count (AADT,year)	7,520/2011 (First Street near Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Fresno				
Pollutant, POC	PM10	PM2.5	PM10-2.5	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	QA Collocated	
Parameter Code	81102	88502	86101	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	NCore	Ncore	Ncore	Ncore	
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	-	R&P/Thermo 2025	
Method code	FEM	FEM	Other	FRM	
FRM/FEM/ARM/Other	FEM	FEM	FRM	FRM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	ARB	ARB	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/1/2012	1/1/2012	1/1/2012	1/1/2012	
Current sampling frequency	Continuous	Continuous	Continuous	1:3	
Required sampling frequency including exceptional events	N/A	N/A	N/A	0.04375	
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	6.3	6.3	6.3	6	
Distance from supporting structure (meters)	2.5	2.5	2.5	2.2	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	N/A	N/A	N/A	N/A	
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	
Distance between monitors fulfilling a QA collocation requirement (meters)	1	1	-	1	
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	Yes	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	-	Monthly	
Frequency of flow rate verification for automated PM analyzers	Bi-Monthly	Bi-Monthly	N/A	N/A	
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	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	2/10/2022, 8/9/2022	2/10/2022, 8/9/2022	2/10/2022, 8/9/2022	2/10/2022, 8/9/2022	

Local Site Name	Modesto –14th St				
AQS ID	06-099-0005				
GPS Coordinates	37.6421 N, -120.9942 W				
Street Address	814 14th Street, Modesto CA 95354				
County	Stanislaus				
Distance to roadways (meters)	50 m (southwest)				
Traffic Count (AADT,year)	122,000 / 2014 (Traffic count for nearest roads: H Street / Rte 99, Source: Caltrans 2017 AADDT)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Modesto				
Pollutant, POC	Ozone, 1	Trace CO, 3	PM10, 7	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	primary	
Parameter Code	44201	42101	81102	88101	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400	Teledyne API 300	Met One BAM-1020	Met One BAM-1020	
Method code	593	67	122	170	
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	
Collecting Agency	CARB	CARB	CARB	CARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	CARB	CARB	CARB	CARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/1/2013	1/1/1981	12/1/2013	12/7/2020	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	
Probe height (meters)	8	8	4.4	4.4	
Distance from supporting structure (meters)	2	2	2	2	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7.6	6.7	N/A	N/A	
Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Semi-Monthly	Semi-Monthly	
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/26/2022	10/26/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	5/18/2022 10/26/2022	5/18/2022 10/26/2022	

Local Site Name	Oildale				
AQS ID	06-029-0232				
GPS Coordinates	35.4380 N, -119.0167 W				
Street Address	3311 Manor St, Oildale CA 93308				
County	Kern				
Distance to roadways (meters)	150 m (northwest)				
Traffic Count (AADT,year)	6,683/2018 (Manor St. between Day Ave and Felton St., Source: Kern Council of Governments.)				
Ground Cover	Dirt, vegetative				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	Ozone	PM10			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Highest Concentration	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	None	None			
Instrument manufacturer and model	Teledyne API T400	Met One 1020			
Method code	87	122			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	ARB	ARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Urban	Middle			
Monitoring start date	1/1/1984	6/1/2017			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec			
Probe height (meters)	5.8	6			
Distance from supporting structure (meters)	1.9	2.1			
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	10	N/A			
Height above probe for obstructions not on roof (meters)	5	N/A			
Distance to nearest tree drip line (meters)	10	N/A			
Distance to furnace or incinerator flue (meters)	N/A	N/A			
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	16.6	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	Bi-Monthly			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	Daily	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	9/15/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	3/22/2022 9/15/2022			

Local Site Name	Shafter				
AQS ID	06-029-6001				
GPS Coordinates	35.5034 N, -119.2726 W				
Street Address	578 Walker St., Shafter, CA 93263				
County	Kern				
Distance to roadways (meters)	10m (southwest)				
Traffic Count (AADT,year)	4,002/2018 (Central Ave and Walker St., Source: Kern Council of Governments.)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Bakersfield				
Pollutant, POC	Ozone	NO2			
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary			
Parameter Code	44201	42602			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	PAMS	PAMS			
Instrument manufacturer and model	Teledyne API T400	Thermo 42IQ			
Method code	87	74			
FRM/FEM/ARM/Other	FEM	FRM			
Collecting Agency	ARB	ARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	7/1/1989	7/1/1989			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec			
Probe height (meters)	7.3	7.3			
Distance from supporting structure (meters)	2.6	2.6			
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	N/A	N/A			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	N/A	N/A			
Distance to furnace or incinerator flue (meters)	2	2			
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7.8	15.5			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	5 Days/Week	5 Days/Week			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/30/2022	11/8/2022			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A			

Local Site Name	Stockton - University Park				
AQS ID	06-077-1003				
GPS Coordinates	37.96158 N, -121.28141 W				
Street Address	702 N Aurora Street, Stockton, CA				
County	San Joaquin				
Distance to roadways (meters)	60 m (north)				
Traffic Count (AADT,year)	3600/2020 (Traffic count estimated by City of Stockton Public Works Traffic Engineering Division)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Stockton-Lodi				
Pollutant, POC	Ozone, 1	Trace CO, 3	NO2, 2	PM10, 5	PM2.5, 3
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	N/A	Primary	primary
Parameter Code	44201	42101	42602	81102	88101
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 400	Teledyne API 300	Teledyne API 200	Met One BAM-1020	Met One BAM-1020
Method code	593	67	99	122	170
FRM/FEM/ARM/Other	FRM	FEM	FRM	FEM	FEM
Collecting Agency	CARB	CARB	CARB	CARB	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	N/A
Reporting Agency	CARB	CARB	CARB	CARB	CARB
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	11/5/2021	11/5/2021	11/5/2021	11/5/2021	12/7/2020
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	Continuous
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	N/A
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	5.7	5.7	5.7	5.7	5.7
Distance from supporting structure (meters)	2	2	2.0	2	2
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No obstructions	No Obstructions	No Obstructions
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	No Obstructions	No Obstructions	No obstructions	No Obstructions	No Obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10	>10	>10	>10	>10
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 % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	12.0	9.9	16.8	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No	No
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	N/A	Yes
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	Semi-Monthly	Semi-Monthly
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	2/17/2022	2/2/2022	2/17/2022	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	N/A	2/17/2022 9/8/2022	2/17/2022 9/8/2022

Local Site Name	Visalia – Church St				
AQS ID	06-107-2002				
GPS Coordinates	36.3325 N, -119.2909 W				
Street Address	310 N. Church St., Visalia CA 93291				
County	Tulare				
Distance to roadways (meters)	25 m (west)				
Traffic Count (AADT,year)	10,000/2017(Traffic count for nearest roads: N Court St and W School Ave, Source: Caltrans AADT 2017)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Visalia–Porterville				
Pollutant, POC	Ozone	NO2	PM10	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	
Parameter Code	44201	42602	81102	88502	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	General/Background	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	None	None	None	None	
Instrument manufacturer and model	Teledyne API T400	Thermo 42 IQ	Met One 1020	Met One 1020	
Method code	87	74	122	731	
FRM/FEM/ARM/Other	FEM	FEM	FEM	FEM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/1/1979	1/1/1979	8/1/2015	12/1/2020*	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	6.8	6.8	6.3	6.5	
Distance from supporting structure (meters)	2.8	2.8	2.3	2.5	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	N/A	N/A	N/A	N/A	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	7.8	14.7	N/A	NA	
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Bi-Monthly	Bi-Monthly	
Frequency of one-point QC check for gaseous instruments	5 Days/Week	5 Days/Week	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/3/2022	11/3/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	5/17/2022 11/3/2022	5/17/2022 11/3/2022	

Sacramento Metropolitan AQMD

*CARB operated sites outside of the CARB ANP

Local Site Name	Sacramento-1309 T Street				
AQS ID	06-067-0010				
GPS Coordinates	38.568440°N, 121.4931190°W				
Street Address	1309 T Street, Sacramento, CA 95814				
County	Sacramento				
Distance to roadways (meters)	30 m				
Traffic Count (AADT,year)	T St. east of 11th St.: 3,102 (City of Sacramento, 2009)				
Ground Cover	Rooftop site (residential area is paved)				
Representative statistical area name (i.e. MSA, CBSA, other)	Sacramento--Arden-Arcade--Roseville, CA				
Pollutant, POC	O3, 1	NO2, 1	PM10, 3	PM2.5, 3	PM2.5, 2
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	Primary	Collocate
Parameter Code	42602	44201	81102	88101	88502
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	Public Information
Site type(s)	Highest Exposure	Population Exposure	Population Exposure	Population Exposure	Population Exposure
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	Other
Network affiliation(s)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 400	Thermo 42iQ	Met One BAM-1020	Met One BAM-1020	Thermo 2000i
Method code	87	74	122	170	143
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	FRM
Collecting Agency	CARB	CARB	CARB	CARB	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	CARB
Reporting Agency	CARB	CARB	CARB	CARB	CARB
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	12/1/1998	5/15/2013	4/1/2007	12/11/2020	12/11/2020
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	1:12
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	1:12
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec
Probe height (meters)	10	10	10	10	10
Distance from supporting structure (meters)	2	2	2	2	2
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	No Obstructions
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	N/A
Distance to nearest tree drip line (meters)	>10 meters	>10 meters	>10 meters	>10 meters	>10 meters
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 % of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	N/A
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	9.02	9.47	N/A	N/A	N/A
Will there be changes within the next 18 months?	No	No	No	No	No
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	semi-monthly	semi-monthly	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	8/24/2022	8/24/2022	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors			2/10/2023 8/24/2022	2/10/2023 8/24/2022	2/10/2023 8/24/2022

San Luis Obispo APCD

*CARB operated sites outside of the CARB ANP

Local Site Name	Paso Robles				
AQS ID	06-079-0005				
GPS Coordinates	35.61467, -120.65691				
Street Address	235 Santa Fe Ave, Paso Robles				
County	San Luis Obispo				
Distance to roadways (meters)	27 to Santa Fe Ave.; 110 to Sherwood Rd.; 180 to Creston Rd.; 2700 to US 101				
Traffic Count (AADT,year)	Santa Fe Ave.: 75 (estimated); Sherwood Rd.: 10,027 (2017); Creston Rd: 17,347 (2017); US101: 70,500 (2017)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	San Luis Obispo – Paso Robles				
Pollutant, POC	Ozone, 1	PM10, 2			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	General/Background	Population Exposure			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API T400	Met One BAM 1020			
Method code	87	122			
FRM/FEM/ARM/Other	FEM	FEM			
Collecting Agency	ARB	ARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A			
Reporting Agency	ARB	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	9/1/1991	6/1/2013			
Current sampling frequency	Continuous	Continuous			
Required sampling frequency including exceptional events	N/A	N/A			
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec			
Probe height (meters)	6.2	5.2			
Distance from supporting structure (meters)	2.9	3			
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	N/A	N/A			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	30	N/A			
Distance to furnace or incinerator flue (meters)	N/A	N/A			
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	13.8	N/A			
Will there be changes within the next 18 months?	No	No			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly			
Frequency of one-point QC check for gaseous instruments	Daily	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	4/14/2022	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	4/14/2022 11/10/2022			

Appendix B

Ozone Seasonal Monitoring Waiver
Renewal Request

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Ozone Seasonal Waiver Renewal Request

WAIVER JUSTIFICATION FOR SEASONAL OZONE MONITORING SITES

California's ozone monitoring season is defined in 40 Code of Federal Regulations (CFR) Part 58, Appendix D, Table D-3, as January through December. However, section 4.1(i) of the same regulation allows for deviations from the listed ozone season on a state-by-state basis, provided that sufficient information is provided to the United States Environmental Protection Agency (U.S. EPA) and approved by the Regional Administrator. The California Air Resources Board (CARB) maintains five ozone monitors that only operate seasonally during the months of April through October. None of these monitors have ever operated year-round. In 2016, U.S. EPA renewed CARB's seasonal ozone waiver with an increase in the ozone season from six months (May - October) to seven months with the inclusion of April. The purpose of this document is to provide justification for continuing the waivers utilizing the most recent data and evaluating those data against the current 0.070 ppm federal 8-hour standard.

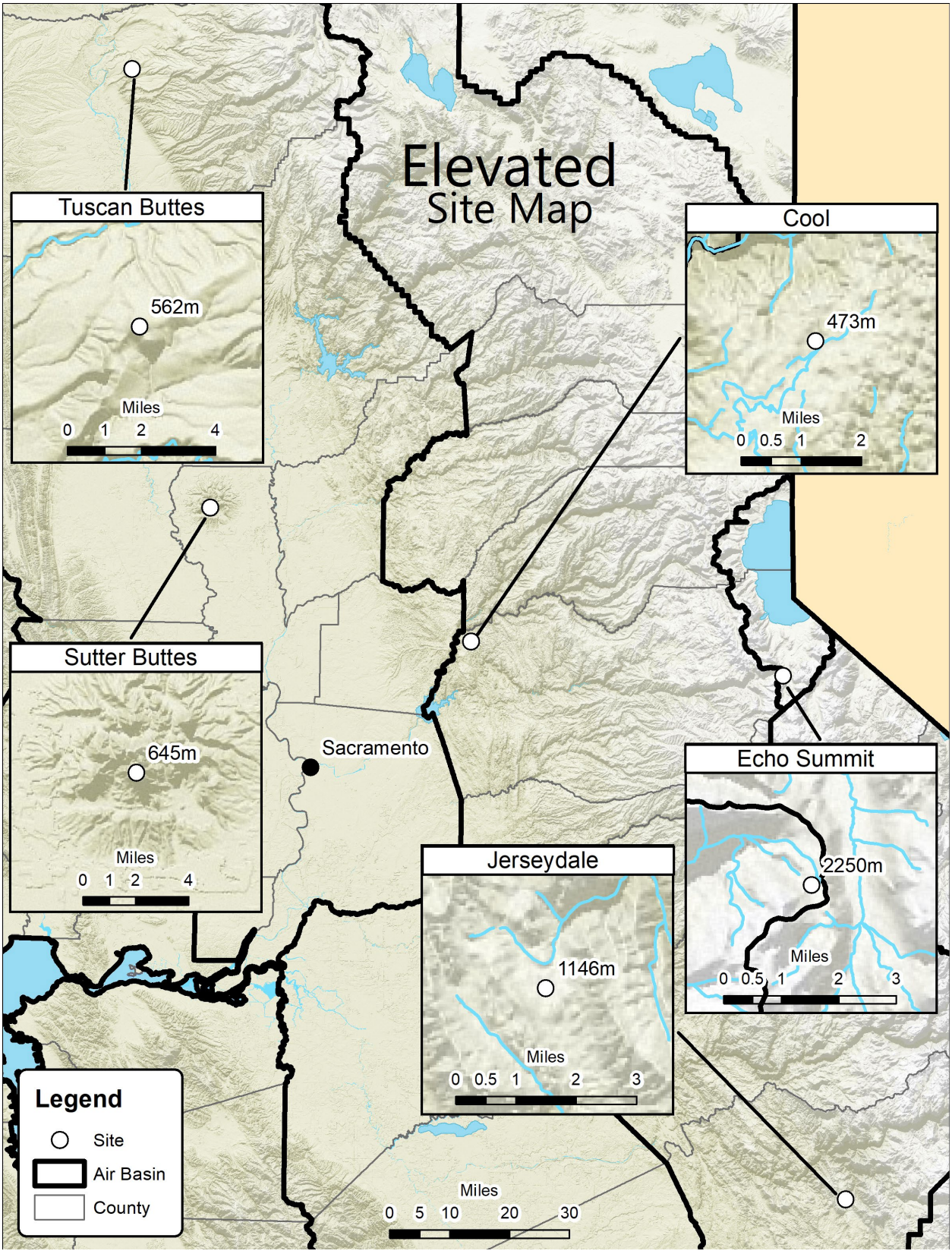
CARB staff has updated several tables and graphs which demonstrated in the past that an April through October monitoring season is adequate for the five seasonal ozone monitors. The following analyses provide the justification needed for the U.S. EPA to continue to grant a waiver for the seasonal sites, in accordance with 40 CFR Part 58.12 (a)(3). The five ozone monitors included in the analyses are listed in Table 1 and shown in Figure 1.

TABLE 1
SEASONAL OZONE MONITORS

Site Name	AQS ID	County	Start Year	Current Operating Season	Preliminary 2022 Design Value (ppm)[1]
Echo Summit[2]	060170012	El Dorado	2000	April-October	0.072
Cool	060170020	El Dorado	1996	April-October	0.077
Jerseydale[3]	060430006	Mariposa	1995	April-October	0.083
Sutter Buttes	061010004	Sutter	1993	April-October	0.076
Tuscan Butte	061030004	Tehama	1995	April-October	0.073

[1]Ozone data obtained on April 17, 2023, from CARB's AQMIS database: *https://www.arb.ca.gov/aqmis2/aqmis2.php*
[2]Echo Summit site did not operate in April during 2019, 2020, 2021 and 2022.
[3]Jerseydale site did not operate in April of 2019.
*White Cloud Mountain site has not operated since 2016 due to shelter and power issues. CARB received approval to close the site in October 2022.

FIGURE 1
CARB SEASONAL OZONE MONITORING SITES



Ozone concentration data used in the analyses were retrieved from CARB's AQMIS databases in April 2023. Average of the monthly maximum 8-hour ozone concentrations for each seasonal site covering a 5-year period from 2018 to 2022 are shown in Figures 2 through 6. In addition to averages for the seasonal sites, averages for the closest surrounding site(s) that operate year-round are also depicted. Beginning with 2016, ozone monitoring season was extended to include April. However, some of the seasonal sites were not operated in April during certain years (Echo Summit in 2019 through 2021; Jerseydale in 2019) or their April data was invalidated or incomplete (Echo Summit in 2018; Tuscan Butte in 2018). Additionally, to enhance understanding of the seasonal variations in ozone concentrations, the highest monthly maximum 8-hour ozone concentrations for each of the five years are also shown in Table 2.

Figures 2 to 6 and Table 2 indicate that seasonal sites and their surrounding site(s) show similar seasonal variations and have higher concentrations during summer months (June through September), when weather conditions are conducive to ozone formation and buildup. It shows that the average concentrations at the seasonal sites during June through September were 16 percent higher than the averages of the preceding months (April and May) and 14 percent higher than the averages of the following month (October). Concentrations at the year-round sites show that the average percent difference between the months of March to April was 11 percent, which is 1.8 times higher than those between the months of April to May (7 percent). In addition, on average, the concentrations dropped 13 percent from September to October, and 24 percent from October to November. These indicate that maximum ozone concentrations are significantly lower in the early spring and late fall months than in the summer ozone season months. Thus, for the seasonal ozone monitoring sites, the April through October monitoring season captures the highest annual concentrations.

In addition, fourth-highest daily maximum 8-hour average ozone concentrations, used in calculating design values, were also estimated. These are compared with the federal standard to determine an area's designation status. The annual fourth-highest daily maximum 8-hour average ozone concentrations for each of the seasonal and year-round sites are shown in Table 3, along with the measurement date. Nearly all of the fourth-highest concentrations occurred between June and September, indicate that those are the key monitoring months. Only two of the fourth high concentrations, across all of the seasonal sites, occurred either before June or after September (Tuscan Butte, 2021 and 2022), and none of them occurred outside the seasonal monitoring period of April to October.

The Sutter Buttes and the Tuscan Butte sites present unique situations. Sutter Buttes and Tuscan Butte are high elevation sites, located on isolated hilltops (refer to Figures 7 and 8). The sites were originally deployed to measure the impact of pollutant transport. Because there are no nearby developed areas, ozone concentrations measured at Sutter Buttes and Tuscan Butte are not representative of population exposure. U.S. EPA recognized the uniqueness of the Sutter Buttes site when promulgating area designations for the 0.080 ppm federal 8-hour ozone standard. U.S. EPA limited the nonattainment area to the area immediately surrounding the Sutter Buttes monitor. Although concentrations at Sutter Buttes are higher than those at

Yuba City (the closest populated area), concentrations continue to decrease. Tuscan Butte received similar recognition during designations for the 0.075 ppm federal 8-hour standard and the area immediately surrounding the monitor was designated a nonattainment area.

To account for the lower concentration of the current ozone standard, ozone concentrations were evaluated at two thresholds suggested by U.S. EPA: 0.070 ppm, the current ozone standard threshold (Table 4), and 0.054 ppm, the moderate Air Quality Index (AQI) threshold (Table 5). The tables show counts of the number of days above each threshold by site and month. Tables 4 and 5 indicate that there are only one exceedance of the 0.070 ppm standard and a few exceedances above the 0.054 ppm threshold at the year-round sites between the months of November and March. Both Tables 4 and 5 clearly indicate that monitoring, based on concentration information alone, is not needed from November through March. Therefore, the current April through October operating season will continue to be adequate.

In addition to air quality, there are other considerations for maintaining a seasonal monitoring schedule at the Echo Summit, Cool, Jerseydale, Sutter Buttes, and Tuscan Butte locations. For instance, all five seasonal monitoring sites are located in remote, mountainous areas, and at significant distances from CARB headquarters in Sacramento. Also, as denoted in Figure 1, all of the monitors are located at high elevations, with the lowest site, Cool, at 473 meters (1,552 feet) and the highest site, Echo Summit, at 2,250 meters (7,382 feet). These physical characteristics require significant time and resources for servicing the monitoring equipment. Winter weather conditions further complicate the issue, at times making the access roads impassable due to a lack of plowing and unsafe for travel.

Based on our analyses of the measured data against the current 0.070 ppm federal 8-hour standard and other considerations, CARB finds that the April through October monitoring season continues to be adequate for capturing the highest ozone concentrations at the Echo Summit, Cool, Jerseydale, Sutter Buttes, and Tuscan Butte monitoring sites. Therefore, CARB is recommending that U.S. EPA grant a renewal waiver for seasonal monitoring (April through October) at these sites, in accordance with 40 CFR Part 58.12 (a)(3).

FIGURE 2

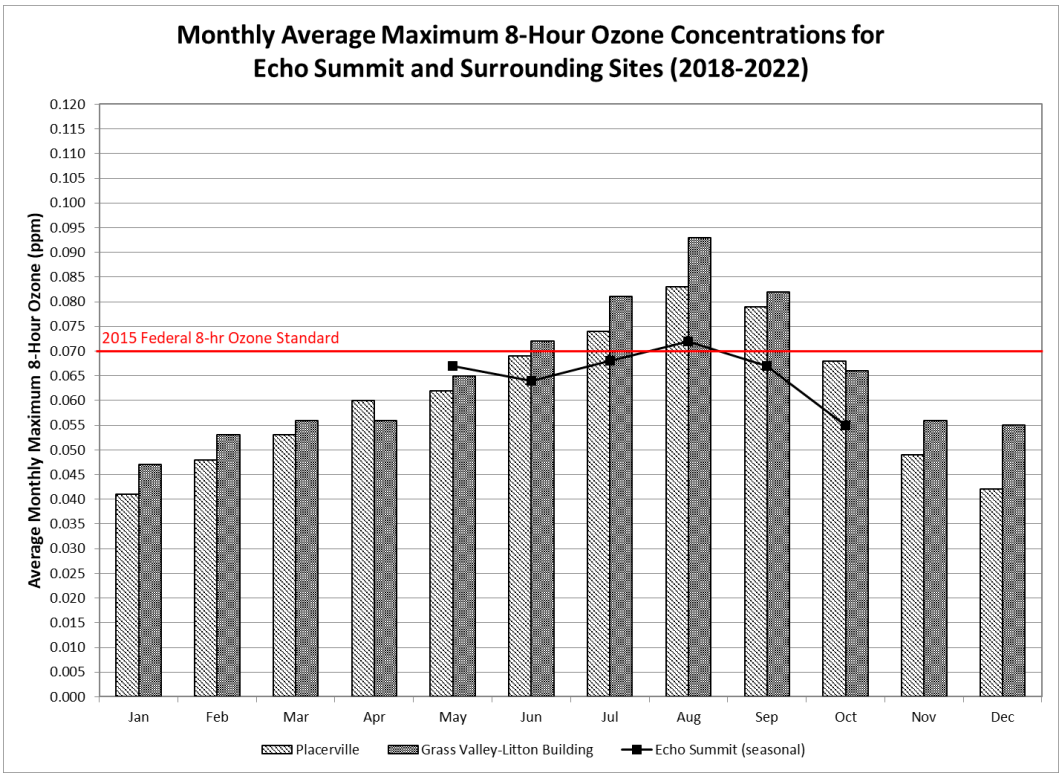


FIGURE 3

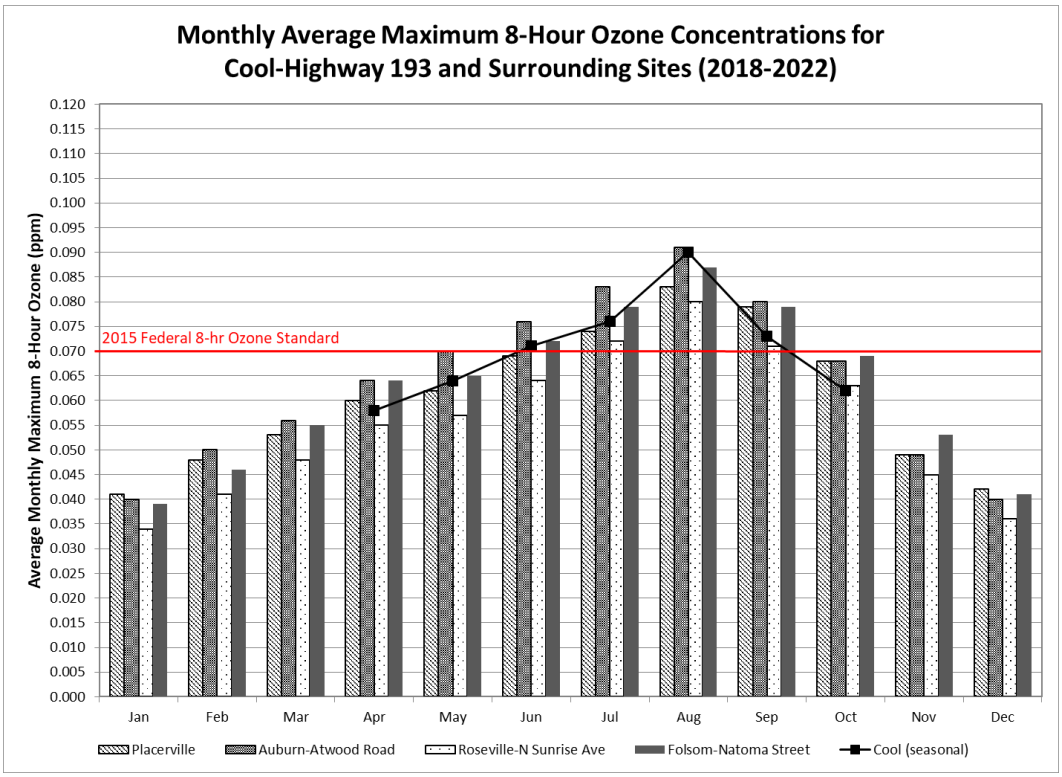


FIGURE 4

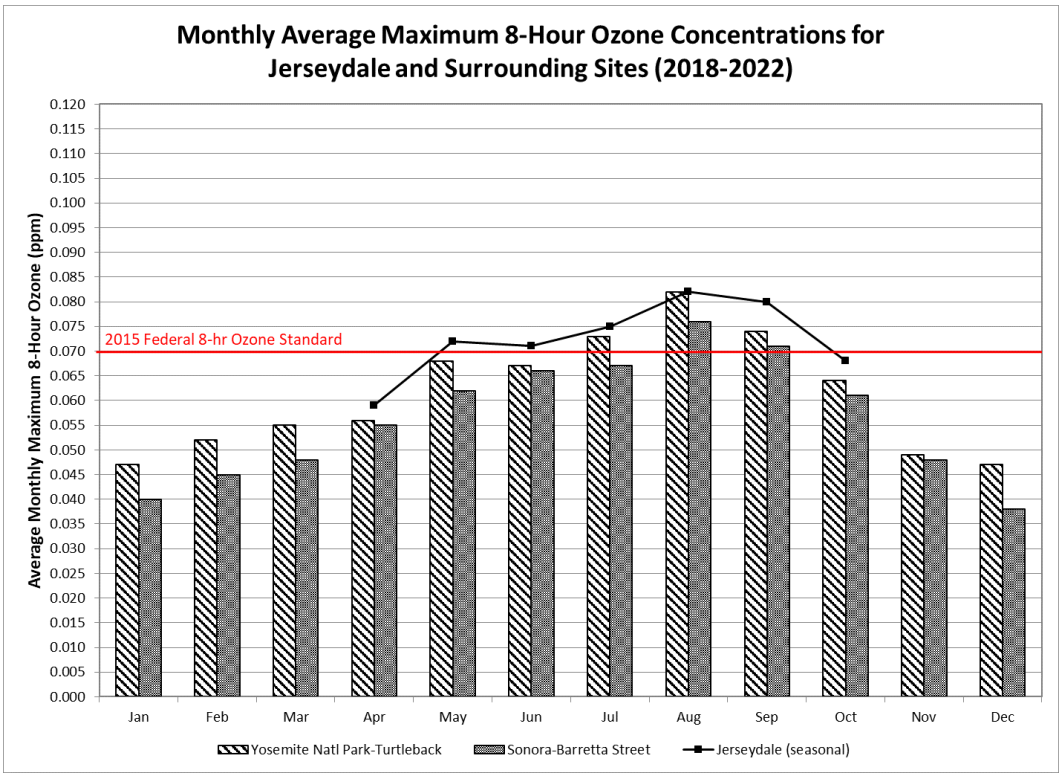
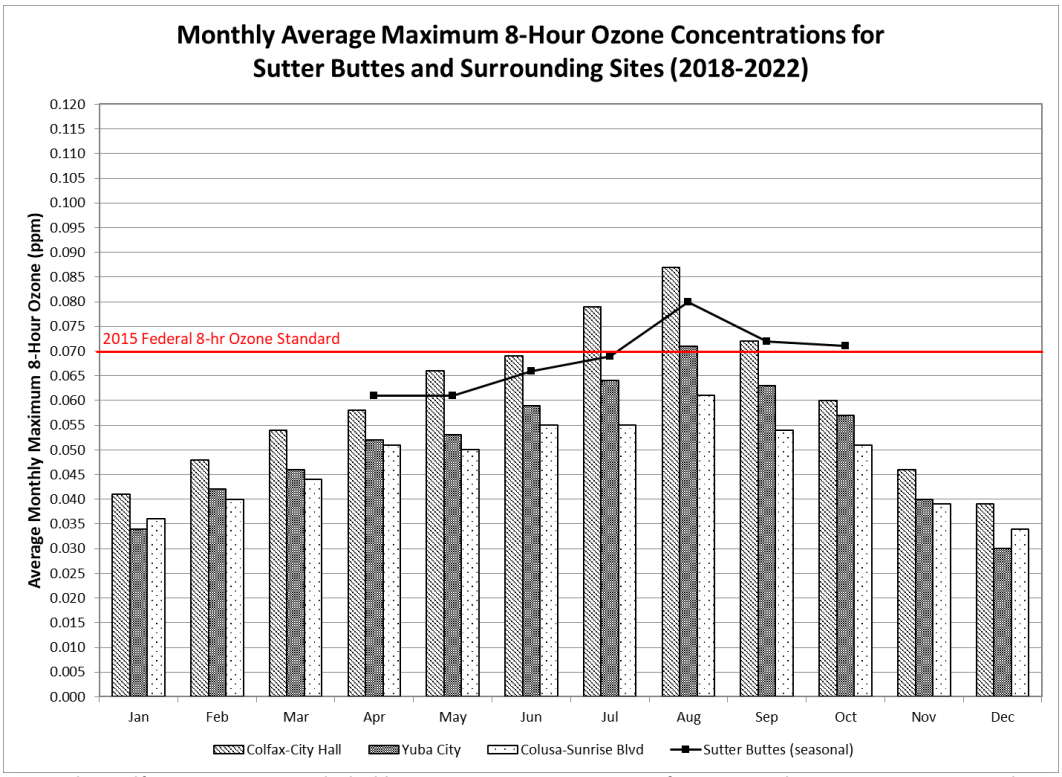


FIGURE 5



Note: The Colfax monitor was included because it is representative of ozone conditions at Sutter Buttes due to its location at a similar altitude and at roughly the same transport distance from the Sacramento metropolitan area.

FIGURE 6

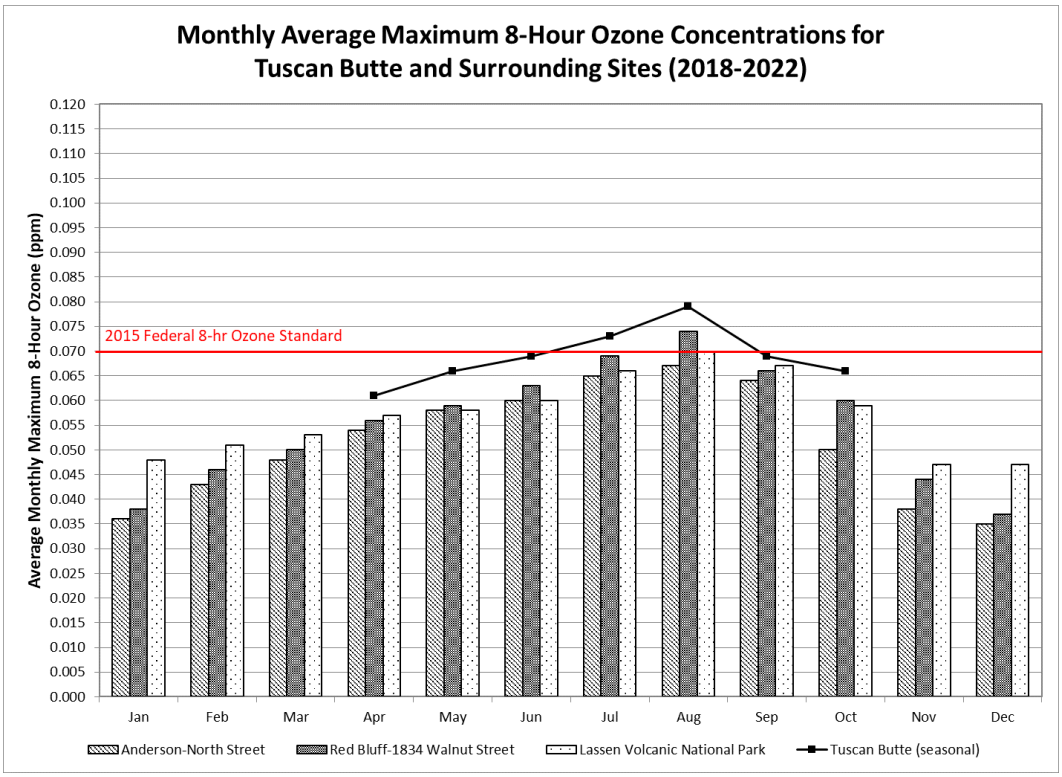

Monthly Average Maximum 8-Hour Ozone Concentrations for Tuscan Butte and Surrounding Sites (2018-2022)
Average Monthly Maximum 8-Hour Ozone (ppm)
0.120
0.115
0.110
0.105
0.100
0.095
0.090
0.085
0.080
0.075
0.070
0.065
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
2015 Federal 8-hr Ozone Standard
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Anderson-North Street
Red Bluff-1834 Walnut Street
Lassen Volcanic National Park
Tuscan Butte (seasonal)

TABLE 2
MONTHLY MAXIMUM 8-HOUR OZONE CONCENTRATIONS AT SEASONAL AND SURROUNDING MONITORING SITES
(Ozone in parts per million)

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '18	0.028	0.038	0.043	0.038	---	---	0.039	0.057	---	0.048	0.040	---	0.035	0.039	---	---	0.047	0.030
FEB '18	0.044	0.047	0.045	0.041	---	---	0.047	0.060	---	0.048	0.047	---	0.043	0.045	---	---	0.049	0.040
MAR '18	0.045	0.051	0.053	0.048	---	---	0.057	0.055	---	0.053	0.055	0.048	0.052	0.044	---	---	0.052	0.042
APR '18	0.059	0.064	0.061	0.061	0.067	---	0.063	0.058	0.057	0.055	0.064	0.061	0.056	0.054	0.065	---	0.058	0.049
MAY '18	0.051	0.067	0.066	0.050	0.063	0.069	0.057	0.061	0.062	0.052	0.058	0.053	0.053	0.060	0.059	0.060	0.062	0.044
JUN '18	0.067	0.079	0.075	0.058	0.075	0.069	0.073	0.072	0.073	0.066	0.070	0.065	0.064	0.067	0.073	0.076	0.069	0.060
JUL '18	0.073	0.107	0.108	0.062	0.092	0.080	0.079	0.101	0.079	0.081	0.088	0.073	0.083	0.084	0.083	0.081	0.092	0.066
AUG '18	0.081	0.115	0.114	0.062	0.108	0.078	0.093	0.101	0.081	0.083	0.099	0.087	0.082	0.087	0.082	0.087	0.087	0.071
SEP '18	---	0.083	0.072	0.058	0.076	0.067	0.081	0.077	0.084	0.064	0.089	0.070	0.078	0.077	0.074	0.071	0.075	0.061
OCT '18	0.046	0.068	0.057	0.055	0.059	0.051	0.071	0.060	0.064	0.053	0.066	0.057	0.064	0.060	0.065	0.064	0.057	0.054
NOV '18	---	0.058	0.053	0.046	---	---	0.057	0.062	---	0.051	0.058	0.049	0.051	0.061	---	---	0.057	0.043
DEC '18	---	0.038	0.038	0.037	---	---	0.039	0.046	---	0.044	0.042	0.036	0.032	0.037	---	---	0.046	0.031
JAN '19	---	---	---	0.040	---	---	0.039	0.047	---	0.048	0.041	0.037	0.034	0.042	---	---	0.045	0.036
FEB '19	---	---	---	0.040	---	---	0.043	0.046	---	0.052	0.046	0.043	0.038	0.048	---	---	0.050	0.037
MAR '19	---	0.056	---	0.046	---	---	0.052	0.055	---	0.052	0.053	0.050	0.045	0.053	---	---	0.060	0.039
APR '19	0.055	0.071	0.054	0.052	0.060	---	0.067	0.056	---	0.052	0.065	0.058	0.059	0.057	0.061	0.062	0.053	0.044
MAY '19	0.060	0.069	0.059	0.052	0.061	---	0.067	0.059	---	0.055	0.065	0.058	0.057	0.061	0.061	0.064	0.060	0.046
JUN '19	0.063	0.079	0.070	0.054	0.072	0.063	0.072	0.074	0.064	0.061	0.065	0.059	0.067	0.073	0.067	0.067	0.065	0.059
JUL '19	0.063	0.079	0.075	0.055	0.069	0.057	---	0.072	0.068	0.057	0.069	0.065	0.070	0.067	0.065	0.068	0.065	0.069
AUG '19	0.065	0.081	0.077	0.051	0.077	0.057	---	0.076	0.074	0.059	0.073	0.067	0.076	0.072	0.064	0.068	0.070	0.063
SEP '19	0.055	0.074	0.073	0.048	0.064	0.063	---	0.077	0.074	0.059	0.075	0.058	0.062	0.069	0.061	0.058	0.073	0.060
OCT '19	0.052	0.067	0.059	0.051	0.062	0.059	---	0.064	0.068	0.060	0.068	0.060	0.062	0.062	0.066	0.065	0.068	0.056
NOV '19	0.043	0.052	0.052	0.045	---	---	---	0.059	---	0.045	0.061	0.048	0.049	0.059	---	---	0.051	0.045
DEC '19	0.035	0.039	0.039	0.034	---	---	---	0.044	---	0.046	0.042	0.037	0.035	0.043	---	---	0.048	0.031

TABLE 2 Continued

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '20	0.034	0.037	0.037	0.034	---	---	---	0.042	---	0.048	0.036	0.036	0.033	0.039	---	---	0.048	0.031
FEB '20	---	0.054	0.051	0.040	---	---	---	0.055	---	0.049	0.050	0.050	0.044	0.047	---	---	0.050	0.046
MAR '20	0.051	0.058	0.053	0.042	---	---	---	0.059	---	0.049	0.050	0.051	0.048	0.049	---	---	0.056	0.050
APR '20	0.050	0.055	0.054	0.044	0.051	---	---	0.052	0.054	0.057	0.055	0.048	0.049	0.054	0.052	0.055	0.053	0.051
MAY '20	0.062	0.070	0.071	0.051	0.063	---	---	0.068	0.071	0.066	0.067	0.058	0.058	0.067	0.059	0.068	0.070	0.059
JUN '20	0.052	0.072	0.065	0.051	0.066	0.062	---	---	0.070	0.052	0.069	0.058	0.062	0.066	0.058	0.063	0.067	0.058
JUL '20	0.062	0.072	0.068	0.047	0.066	0.061	---	---	0.067	0.059	0.071	0.061	0.063	0.063	0.059	0.065	0.064	0.058
AUG '20	0.063	0.089	0.092	0.068	0.096	0.079	---	0.122	0.100	0.075	0.101	---	0.080	0.083	0.090	0.087	0.100	0.082
SEP '20	0.073	0.083	0.075	0.052	0.075	0.076	---	0.086	0.078	0.079	0.078	0.063	0.073	0.068	0.083	0.073	0.075	0.066
OCT '20	0.049	0.070	0.064	0.044	0.062	0.057	---	0.065	0.077	0.058	0.081	0.059	0.063	0.068	0.084	0.068	0.063	0.057
NOV '20	0.039	0.052	0.049	0.042	---	---	---	0.054	---	0.046	0.052	0.050	0.048	0.046	---	---	0.044	0.046
DEC '20	0.034	0.043	0.040	0.029	---	---	---	0.042	---	0.048	0.044	0.039	0.032	0.040	---	---	0.045	0.032
JAN '21	0.040	0.042	0.044	0.031	---	---	0.039	0.042	---	0.045	0.043	0.043	0.035	0.043	---	---	0.047	0.036
FEB '21	0.042	0.050	0.048	0.037	---	---	0.046	0.050	---	0.056	0.049	0.047	0.039	0.043	---	---	0.060	0.041
MAR '21	0.048	0.059	0.056	0.042	---	---	0.057	0.056	---	0.059	0.058	0.053	0.050	0.050	---	---	0.052	0.050
APR '21	0.054	0.068	0.065	0.047	0.058	---	0.066	---	0.064	0.066	0.064	0.059	0.054	0.059	0.062	0.069	0.060	0.057
MAY '21	0.067	0.077	0.070	0.051	0.068	---	0.069	0.074	0.072	0.062	0.068	0.074	0.057	0.066	0.068	0.077	0.071	0.060
JUN '21	0.058	0.081	0.071	0.051	0.074	0.068	0.079	0.072	0.081	0.064	0.072	0.070	0.060	0.065	0.067	0.073	0.073	0.061
JUL '21	0.061	0.082	0.075	0.055	0.080	0.070	0.091	0.079	0.089	0.076	0.080	0.081	0.070	0.067	0.073	0.078	0.076	0.063
AUG '21	0.065	0.094	0.083	0.064	0.091	0.085	0.096	0.092	0.090	0.077	0.076	0.076	0.090	0.081	0.090	0.084	0.089	0.077
SEP '21	0.062	0.085	0.075	0.063	0.081	---	0.085	0.096	0.078	0.068	0.075	0.072	0.079	0.070	0.077	0.076	0.077	0.072
OCT '21	0.053	0.067	0.068	0.052	0.062	---	0.071	0.072	---	0.069	0.068	0.061	0.064	0.062	0.073	0.063	0.073	0.065
NOV '21	0.035	0.039	0.038	0.030	0.039	---	---	0.049	---	0.047	0.038	0.036	0.036	0.037	---	---	0.047	0.035
DEC '21	0.038	0.041	0.038	0.037	0.041	---	---	0.051	---	0.053	0.044	0.039	0.037	0.040	---	---	0.053	0.035

MONTHLY MAXIMUM 8-HOUR OZONE CONCENTRATIONS AT SEASONAL AND SURROUNDING MONITORING SITES

(Ozone in parts per million)

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barrett a Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '22	0.042	0.044	0.043	0.038	---	---	0.040	0.049	---	0.052	0.046	0.039	0.035	0.039	---	---	0.050	0.038
FEB '22	0.044	0.052	0.051	0.042	---	---	0.048	0.055	---	0.052	0.052	0.044	0.043	0.045	---	---	0.054	0.046
MAR '22	0.050	0.056	0.057	0.046	---	---	0.054	0.057	---	0.055	0.052	0.050	0.046	0.045	---	---	0.056	0.052
APR '22	0.052	0.062	0.060	0.052	0.058	---	0.063	0.060	0.062	0.058	0.056	0.054	0.060	0.053	0.066	0.061	0.058	0.059
MAY '22	0.052	0.070	0.064	0.050	0.066	0.066	0.069	0.063	0.084	0.056	0.056	0.053	0.064	0.060	0.062	0.062	0.081	0.057
JUN '22	---	0.071	0.066	0.062	0.072	0.059	0.066	0.070	0.068	0.061	---	0.066	0.069	0.061	0.068	0.070	0.061	0.058
JUL '22	0.069	0.076	0.070	0.057	0.076	0.072	0.068	0.073	---	0.058	0.062	0.068	0.075	0.056	0.069	0.073	0.070	---
AUG '22	0.061	0.080	0.071	0.061	0.079	0.061	0.074	0.076	0.066	0.058	0.066	0.066	0.075	0.061	0.076	0.069	0.066	0.064
SEP '22	0.069	0.075	0.069	0.052	0.072	0.064	0.072	0.078	0.086	0.065	0.079	0.070	0.067	0.073	0.066	0.069	0.070	0.057
OCT '22	---	0.070	0.054	0.056	0.066	0.055	0.067	0.071	0.066	0.056	0.061	0.065	0.063	0.054	0.071	0.070	0.063	0.055
NOV '22	0.038	0.046	0.042	0.035	---	---	0.049	0.057	---	0.050	0.040	0.041	0.041	0.037	---	---	0.049	0.034
DEC '22	---	0.042	0.042	0.035	---	---	0.043	0.093	---	0.046	0.039	0.035	0.044	0.033	---	---	0.047	0.025

Notes:

1. Surrounding monitors used for comparison with more than one seasonal site are only listed once.
2. Highlighted cells indicate the maximum 8-hour average concentration for each site during each calendar year.
3. Folsom-Natoma Street monitoring site shutdown 7/22/2019 for renovations and operation resumed 12/10/2020.
4. Data for the Placerville-Gold Nugget Way and Placerville-Canal Street monitoring sites were merged to make a continuous Placerville record for the 5-year period.
5. Months with no data or less than 75% data completeness are denoted by "---".

* AQS Site ID of the surrounding sites: Anderson-North Street (060890007); Auburn- Atwood Road(060610003); Colfax-City Hall (060610004); Colusa-Sunrise Blvd (060111002); Folsom-Natoma Street (060670012); Grass Valley-Litton Building (060570005); Lassen Volcanic Natl Park (060893003); Placerville-Gold Nugget Way (060170010); Placerville-Canal Street (060172004); Red Bluff- Walnut Street (061030007); Roseville-N Sunrise Ave (060610006); Sonora-Barretta Street (06109000); Yosemite Natl Park-Turtleback (060430003); Yuba City (061010003)

TABLE 3
ANNUAL 4th HIGHEST 8-HOUR OZONE CONCENTRATIONS AT SEASONAL AND SURROUNDING MONITORING SITES
(Ozone in parts per million; seasonal sites highlighted)

	2018 4th Highest	Date	2019 4th Highest	Date	2020 4th Highest	Date	2021 4th Highest	Date	2022 4th Highest	Date
Anderson-North Street	0.076	8/8/2018	0.063	6/3/2019	0.066	9/15/2020	0.063	8/25/2021	0.066	7/25/2022
Auburn-Atwood Road	0.098	8/9/2018	0.079	7/31/2019	0.083	9/1/2020	0.085	9/24/2021	0.075	7/23/2022
Colfax-City Hall	0.097	8/9/2018	0.072	7/31/2019	0.08	8/23/2020	0.076	8/24/2021	0.070	7/29/2022
Colusa-Sunrise Blvd	0.061	8/25/2018	0.053	6/12/2019	0.052	9/5/2020	0.061	8/30/2021	0.057	8/18/2022
Cool	0.092	8/1/2018	0.070	8/16/2019	0.078	8/23/2020	0.08	7/23/2021	0.074	7/25/2022
Echo Summit	0.075	8/25/2018	0.059	10/7/2019	0.073	9/15/2020	0.081	8/22/2021	0.064	7/14/2022
Folsom-Natoma Street	0.079	7/18/2018	---	---	---	---	0.085	9/24/2021	0.070	9/6/2022
Grass Valley-Litton Building	0.095	8/8/2018	0.072	7/25/2019	0.08	8/29/2020	0.09	9/10/2021	0.075	8/16/2022
Jerseydale	0.077	9/27/2018	0.071	8/3/2019	0.091	8/20/2020	0.081	6/17/2021	0.079	9/8/2022
Lassen Volcanic Natl Park	0.077	8/10/2018	0.059	9/15/2019	0.069	9/14/2020	0.075	8/23/2021	0.061	6/22/2022
Placerville	0.095	8/8/2018	0.071	8/16/2019	0.086	8/22/2020	0.075	9/24/2021	0.066	9/2/2022
Red Bluff-Walnut Street	0.075	8/3/2018	0.065	8/14/2019	0.061	9/6/2020	0.075	7/22/2021	0.066	6/22/2022
Roseville-N Sunrise Ave	0.080	8/9/2018	0.067	6/5/2019	0.07	8/23/2020	0.075	9/3/2021	0.070	7/23/2022
Sonora-Barretta Street	0.084	8/5/2018	0.069	9/14/2019	0.08	8/24/2020	0.068	8/25/2021	0.061	8/16/2022
Sutter Buttes	0.080	7/28/2018	0.065	7/31/2019	0.083	9/13/2020	0.077	9/3/2021	0.069	7/24/2022
Tuscan Butte	0.082	8/25/2018	0.066	6/12/2019	0.074	8/20/2020	0.077	5/13/2021	0.070	10/21/2022
Yosemite Natl Park-Turtleback	0.085	7/25/2018	0.068	8/3/2019	0.084	8/20/2020	0.08	8/24/2021	0.069	7/25/2022
Yuba City-Almond Street	0.065	7/31/2018	0.061	8/15/2019	0.066	9/5/2020	0.072	9/13/2021	0.058	6/23/2022

Notes:
1. Surrounding monitors used for comparison with more than one seasonal site are only listed once.
2. The Echo Summit monitoring site did not operate in April of 2019 through 2022.
3. Folsom-Natoma Street monitoring site shutdown 7/22/2019 for renovations and operation resumed 12/10/2020.
4. Data for the Placerville-Gold Nugget Way and Placerville-Canal Street monitoring sites were merged to make a continuous Placerville record for the 5-year period.
5.Months with no data or less than 75% data completeness are denoted by "---".
* AQS Site ID of the surrounding sites: Anderson-North Street (060890007); Auburn- Atwood Road(060610003); Colfax-City Hall (060610004); Colusa-Sunrise Blvd (060111002); Folsom-Natoma Street (060670012); Grass Valley-Litton Building (060570005); Lassen Volcanic Natl Park (060893003); Placerville-Gold Nugget Way (060170010); Placerville-Canal Street (060172004); Red Bluff- Walnut Street (061030007); Roseville-N Sunrise Ave (060610006); Sonora-Barretta Street (06109000); Yosemite Natl Park-Turtleback (060430003); Yuba City (061010003)

TABLE 4
NUMBER OF DAYS WITH MAXIMUM 8-HOUR OZONE CONCENTRATION >0.070 PPM
(April-October ozone season columns highlighted in yellow; seasonal site rows denoted by gray)

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '18																		
FEB '18																		
MAR '18																		
APR '18																		
MAY '18																		
JUN '18		3	3		2		1	1	1						2	2		
JUL '18	2	11	9		9	4	7	7	2	4	7	1	4	7	4	2	15	
AUG '18	7	16	15		12	6	5	10	4	9	13	7	5	11	9	8	8	1
SEP '18		5	3		3		4	4	4		8		2	3	3	1	2	
OCT '18							1											
NOV '18																		
DEC '18																		
JAN '19																		
FEB '19																		
MAR '19																		
APR '19		1																
MAY '19		1			1		2	1						1				
JUN '19		4	2					2										
JUL '19		2	1		2			1	4		2		1	1				
AUG '19		1	1					1	1		2						1	
SEP '19																		
OCT '19																		
NOV '19																		
DEC '19																		

TABLE 4 Continued

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '20																		
FEB '20																		
MAR '20																		
APR '20																		
MAY '20			1						1									
JUN '20		1																
JUL '20		1									1							
AUG '20		11	10		5	4		10	12	1	9		2	5	5	7	9	2
SEP '20	1	9	7		2	3		10	5	1	8		1		4	2	3	
OCT '20									6		2				2			
NOV '20																		
DEC '20																		
JAN '21																		
FEB '21																		
MAR '21																		
APR '21																		
MAY '21		1						2				1				1	1	
JUN '21		3	1		1		2	1			2					1	1	
JUL '21		13	6		4		8	8		2	3	3			1	4	3	
AUG '21		11	7		5	6	8	11		7	4	7	2	2	7	9	10	3
SEP '21		6	3		4			14			1	4	2		3	5	1	1
OCT '21								2						1		1		
NOV '21																		
DEC '21																		

TABLE 4 Continued

Month & Year	Anderson--North Street	Auburn-Atwood Road	Colfax--City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '22																		
FEB '22																		
MAR '22																		
APR '22																		
MAY '22									2								1	
JUN '22		1			1													
JUL '22		5			4	1		4					2			2		
AUG '22		5	1		4		2	4					1		2			
SEP '22		2			3		1	3	3		2			1				
OCT '22								1							1			
NOV '22																		
DEC '22								1										

Notes:
1. Surrounding monitors used for comparison with more than one seasonal site are only listed once.
2. Highlighted cells indicate the maximum 8-hour average concentration for each site during each calendar year.
3. Folsom-Natoma Street monitoring site shutdown 7/22/2019 for renovations and operation resumed 12/10/2020.
4. Data for the Placerville-Gold Nugget Way and Placerville-Canal Street monitoring sites were merged to make a continuous Placerville record for the 5-year period.
5. Months with no data or less than 75% data completeness are denoted by "---".

* AQS Site ID of the surrounding sites: Anderson-North Street (060890007); Auburn- Atwood Road(060610003); Colfax-City Hall (060610004); Colusa-Sunrise Blvd (060111002); Folsom-Natoma Street (060670012); Grass Valley-Litton Building (060570005); Lassen Volcanic Natl Park (060893003); Placerville-Gold Nugget Way (060170010); Placerville-Canal Street (060172004); Red Bluff-Walnut Street (061030007); Roseville-N Sunrise Ave (060610006); Sonora-Barretta Street (06109000); Yosemite Natl Park-Turtleback (060430003); Yuba City (061010003)

TABLE 5
NUMBER OF DAYS WITH MAXIMUM 8-HOUR OZONE CONCENTRATION >0.054 PPM
(April-October ozone season columns highlighted in yellow; seasonal site rows denoted by gray)

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville-Gold Nugget Way	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '18								2										
FEB '18								3										
MAR '18							1	1			1							
APR '18	2	4	6	2	3	5	2	2	4	1	4	2	1		7	4	3	
MAY '18		5	4		5	7	3	3	7		3			2	6	11	6	
JUN '18	7	23	21	1	20	14	14	18	23	8	18	11	5	20	20	22	21	3
JUL '18	13	27	28	3	27	20	23	19	22	11	26	16	16	21	18	20	26	10
AUG '18	21	30	30	4	28	24	22	26	27	23	27	22	21	26	24	22	28	11
SEP '18	7	22	13	2	17	15	20	20	19	9	25	16	12	17	12	15	18	2
OCT '18		6	4	2	5		6	5	13		11	1	1	5	7	7	5	
NOV '18		1					2	2			1			3			4	
DEC '18																		
JAN '19																		
FEB '19																		
MAR '19		3	1					1									2	
APR '19	2	6			4		6	1			4	3	4	3	4	7		
MAY '19	6	9	6		6		7	5		1	3	5	1	5	9	8	5	
JUN '19	7	18	12		14	6	16	14	11	4	11	11	9	16	18	13	18	5
JUL '19	6	20	17	1	15	2	8	15	15	3	14	4	6	15	7	10	16	4
AUG '19	9	16	19		13	2		19	26	5	19	13	8	21	11	15	23	8
SEP '19	1	12	11		5	1		11	14	1	9	3	5	13	4	6	11	4
OCT '19		8	6		4	2		7	15	2	9	4	2	10	6	5	10	1
NOV '19								3			6			3				
DEC '19																		

TABLE 5 Continued

Month & Year	Anderson -North Street	Auburn-Atwood Road	Colfax -City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville-Gold Nugget Way	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '20																		
FEB '20								1										
MAR '20		2						2									1	
APR '20		2								1	1					1		
MAY '20	4	10	8		4			5	11	2	8	1	1	8	2	8	6	2
JUN '20		11	12		8	3			11		9	2	5	7	2	4	9	4
JUL '20	13	25	27		21	4		15	28	5	23	5	10	16	12	16	26	4
AUG '20	9	28	24	2	24	13		23	24	12	25	4	18	17	20	18	23	15
SEP '20	9	18	19		12	8		23	20	16	21	9	12	17	17	17	15	8
OCT '20		12	6		6	2		9	20	2	11	3	4	11	11	7	13	2
NOV '20																		
DEC '20																		
JAN '21																		
FEB '21										1								
MAR '21		3	3				1	2		4	1							
APR '21		9	5		2		7			4	7	4		2	5	4	5	3
MAY '21	3	13	7		3	2	9	13		4	8	6	1	7	3	8	13	3
JUN '21	2	18	14		10	6	14	19		9	10	14	2	5	10	15	12	4
JUL '21	9	30	28	1	23	16	21	30		26	22	24	17	19	14	28	31	12
AUG '21	12	27	21	6	24	21	16	25		25	19	23	16	18	23	26	29	14
SEP '21	5	22	19	8	20			21		17	19	20	16	12	21	21	25	16
OCT '21		7	7		7			7		4	6	3	3	3	6	6	7	3
NOV '21																		
DEC '21																		

TABLE 5 Continued

Month & Year	Anderson--North Street	Auburn-Atwood Road	Colfax--City Hall	Colusa-Sunrise Blvd	Cool	Echo Summit	Folsom-Natoma Street	Grass Valley-Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville-Gold Nugget Way	Red Bluff-Walnut Street	Roseville-N Sunrise Ave	Sonora-Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park-Turtleback	Yuba City
JAN '22																		
FEB '22								1										
MAR '22		2	1					2	1	1							2	
APR '22		5	5		3		4	5	7	2	1		2		4	5	5	3
MAY '22		7	3		6	6	4	6	11	3	1		3	2	4	2	8	1
JUN '22	2	14	11	1	15	6	12	15	16	7	1	5	11	1	7	11	13	3
JUL '22	15	21	23	1	21	10	12	23	13	8	11	16	18	1	21	21	19	1
AUG '22	13	23	12	3	19	8	16	26	16	3	13	15	17	4	17	18	21	5
SEP '22	7	15	10		16	6	17	19	18	5	10	9	14	6	15	14	14	1
OCT '22	6	16		3	14	1	10	21	13	1	7	10	10		19	12	10	1
NOV '22								1										
DEC '22								1										

Notes:
1. Surrounding monitors used for comparison with more than one seasonal site are only listed once.
2. Highlighted cells indicate the maximum 8-hour average concentration for each site during each calendar year.
3. Folsom-Natoma Street monitoring site shutdown 7/22/2019 for renovations and operation resumed 12/10/2020.
4. Data for the Placerville-Gold Nugget Way and Placerville-Canal Street monitoring sites were merged to make a continuous Placerville record for the 5-year period.
5. Months with no data or less than 75% data completeness are denoted by "---".

* AQS Site ID of the surrounding sites: Anderson-North Street (060890007); Auburn- Atwood Road(060610003); Colfax-City Hall (060610004); Colusa-Sunrise Blvd (060111002); Folsom-Natoma Street (060670012); Grass Valley-Litton Building (060570005); Lassen Volcanic Natl Park (060893003); Placerville-Gold Nugget Way (060170010); Placerville-Canal Street (060172004); Red Bluff-Walnut Street (061030007); Roseville-N Sunrise Ave (060610006); Sonora-Barretta Street (06109000); Yosemite Natl Park-Turtleback (060430003); Yuba City (061010003)

FIGURE 7
PHOTOS OF AREA SURROUNDING THE SUTTER BUTTES OZONE MONITORING SITE

Sutter Buttes: Looking north from probe.

Sutter Buttes: Looking east from probe.

Sutter Buttes: Looking south from probe.
(from 2016 site audit)

Sutter Buttes: Looking west from probe.

FIGURE 8
PHOTOS OF AREA SURROUNDING THE TUSCAN BUTTE OZONE MONITORING SITE

Tuscan Butte: Looking north from probe.

Tuscan Butte: Looking east from probe.

Tuscan Butte: Looking south from probe.
(from 2016 site audit)

Tuscan Butte: Looking west from probe.

Appendix C

Supporting Documentation for Site Changes

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

April 11, 2023

Kathleen Gill
Chief, Air Quality Surveillance Branch
California Air Resources Board
4001 Iowa Avenue
P.O. Box 550099
Riverside, California 92507

Dear Kathleen Gill:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board (CARB) relocation of the O_3, $PM_{2.5}$, and PM_{10} State/Local Air Monitoring Station (SLAMS) monitors from the Mojave Poole site (Air Quality System (AQS) Site ID: 06-029-0011) to the Mojave CA-58 site (AQS ID: 06-029-0019). On February 7, 2023, CARB sent a letter to the EPA with a request for EPA approval of this network change. In this letter, CARB explained the need to relocate the Mojave Poole monitoring site due to logistics beyond CARB's control (i.e., land use changes). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors.

The Mojave Poole O_3, $PM_{2.5}$, and PM_{10} 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 Mojave Poole site was located at 923 Poole Street, Mojave, CA 93501. The relocation site, Mojave CA-58, is located at 1773 CA-58 Business, Mojave, CA 93501, approximately 1,372 meters southwest 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 residential and commercial land use. The original and proposed relocation site are expected to measure similar O_3, $PM_{2.5}$, and PM_{10}, concentrations from similar sources due to the consistency in land use and proximity to sources. This relocation will not prevent CARB from meeting 40 CFR part 58, Appendix D requirements.

In addition, CARB provided data for O_3, $PM_{2.5}$, and PM_{10} at Mojave Poole from January 1, 2019 through August 31, 2020 and at Mojave CA-58 from January 2021 through December 2022. The resulting data

supported the expectation of similar concentrations from similar sources for all pollutants. CARB also provided wind roses of data collected at Mojave Poole from January 2019 through August 31, 2020 and Mojave CA-58 from January 6, 2021 through December 14, 2022, showing similar wind speeds and direction between the two sites.

Based on the assessment of the scale of representation and monitoring data at both locations, EPA has determined that CARB'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 Mojave Poole O_3, $PM_{2.5}$, and PM_{10} SLAMS monitors to the proposed site, Mojave CA-58. 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 you have any questions, please feel free to contact me at (415) 972-3134 or Julia Carlstad at (415) 947-4107.

Sincerely,

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

cc (via email): Glen Stephens, Eastern Kern Air Pollution Control District
Gary Ray, Eastern Kern Air Pollution Control District
Walter Ham, CARB
Michael Benjamin, CARB
Michael Miguel, CARB
Manisha Singh, CARB
Sylvia Vanderspek, CARB
Jin Xu, CARB
Melissa Niederreiter, CARB
Adolfo Garcia, CARB
Thomas Lovejoy, CARB

Shasta County

DEPARTMENT OF RESOURCE MANAGEMENT
1855 Placer Street, Redding, CA 96001

Paul A. Hellman
Director
Adam Fieseler
Assistant Director

March 30, 2023

Dena Vallano
Air Quality Analysis Office, Manager
EPA Region 9
75 Hawthorne Street, AIR-7
San Francisco, CA 94105

Sent via email: Vallano.Dena@epa.gov

RE: REQUEST TO DISCONTINUE MONITORING AT ANDERSON - NORTH STREET MONITORING SITE – SHASTA COUNTY, CA (AQS SITE ID: 06-089-0007)

Dear Ms. Vallano,

The Shasta County Air Quality Management District (District) is requesting approval from U.S. EPA to discontinue monitoring at the Anderson – North Street site (AQS site ID: 06-089-0007). Ozone has been monitored at the Anderson – North Street site since June 1993 as part of the California State and Local Air Monitoring (SLAMS) network. The District will continue to operate the ozone monitors at the Redding – Health Department site (AQS site ID: 06-089-0004) and the Shasta Lake – Lake Blvd site (AQS site ID: 06-089-0009) which are collected with SLAMS and Federal Equivalency Method (FEM)/Federal Reference Method (FRM) monitors. In addition, the National Park Service maintains an ozone monitor at the Lassen Volcanic Park near the Manzanita Lake Ranger Station (AQS site ID: 06-089-3003) dedicated as a non-EPA Federal monitor.

40 CFR Part 58 contains requirements for measuring ambient air quality, reporting for ambient air quality data, as well as requirements for network modifications, including minimum network requirements to provide support for State Implementation Plans (SIP), national air quality assessments, and policy decisions. These minimums are described within the network design requirements, which include the minimum number of monitors required and their placement.

The discontinuation of monitoring at the Anderson – North Street site will not compromise the minimum monitoring requirements for ozone in the Redding Metropolitan Statistical Area. 40 CFR Part 58, §58.14 allows for network modifications, including station discontinuation. Any discontinuation is subject to the review and approval of the regional administrator. Requests for discontinuation may be approved on a case-by-case basis if discontinuance does not compromise data collection needed for implementation of the National Ambient Air Quality Standards (NAAQS) and if the requirements of Appendix D to this part, if any, continue to be met.

The request for closure of the ozone monitor at the Anderson – North Street site follows the criteria in S40 CFR Part 58, §58.14, of Title 40 of the Code of Federal Regulations.

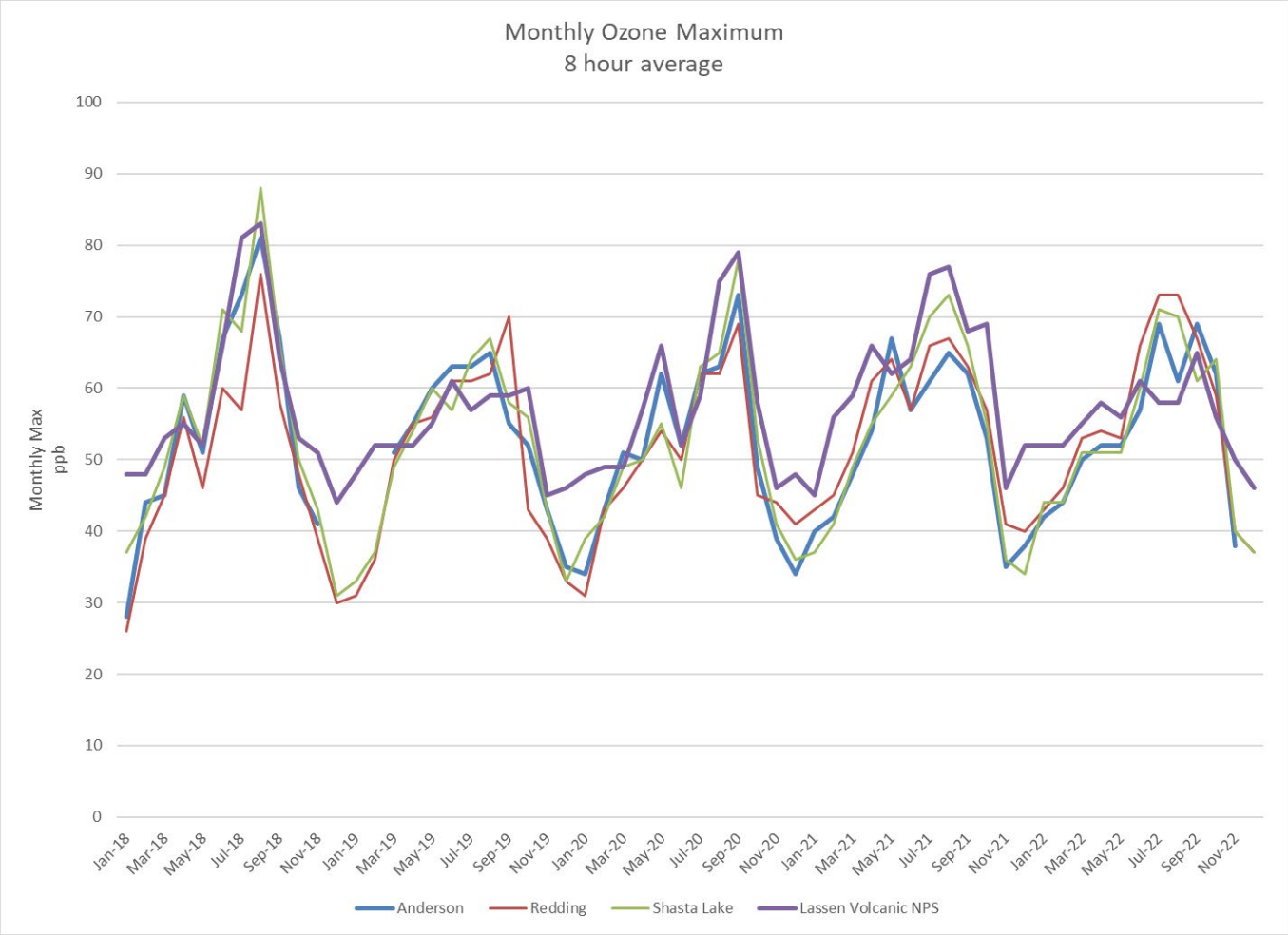
- Public notice of the proposed site change will be published in the *Annual Network Plan, Covering Monitoring Operations in 25 California Air Districts* as soon as possible, projected July 2023.
- Table 1 indicates that there is a greater than 10% chance that the Anderson – North Street site will exceed 80% of the NAAQS.
- Figure 1 shows the monthly hourly ozone maximum at the Anderson – North Street site, and the monthly maximum ozone concentration is consistently at lower concentrations than the nearby monitoring stations at the Redding – Health Department site and Shasta Lake – Lake Blvd site.

- Figure 2 indicates that Shasta County is in attainment for ozone for the NAAQS. Therefore, the ozone monitor is not specifically required by an attainment or maintenance plan.
- Ozone will continue to be monitored by the District at the Redding – Health Department and Shasta Lake – Lake Blvd sites. The National Park Service will continue to monitor ozone near the Manzanita Lake Ranger Station (non-EPA Federal monitor).
- The District is requesting that EPA conduct a case-by-case evaluation for these monitoring sites.

Table1

O3 NAAQS: 8-hour												
Site	Year 1 Design Value (ppb)	Year 2 Design Value (ppb)	Year 3 Design Value (ppb)	Year 4 Design Value (ppb)	Year 5 Design Value (ppb)	Average Design Value (ppb)	Std. Dev. *s*	Student's *t* value (90% confidence)	Number of Data Values (*n*)	90% Upper CI (ppb)	80% of 70 ppb NAAQS (ppb)	Test
	2018	2019	2020	2021	2022	2017-2021						
Anderson (06-089-0007)	68	66	68	64	65	*66.20*	*1.79*	*2.13*	5	*67.9*	56	FAIL
Redding (06-089-0004)	67	63	60	62	65	*63.40*	*2.70*	*2.13*	5	*66.0*	56	FAIL
Shasta Lake (06-089-0009)	76	71	68	64	65	*68.80*	*4.87*	*2.13*	5	*73.4*	56	FAIL
Shasta Lake Lassen Volcanic NPS (06-089-3003)	68	66	68	67	68	*67.40*	*0.89*	*2.13*	5	*68.3*	56	FAIL

Figure 1

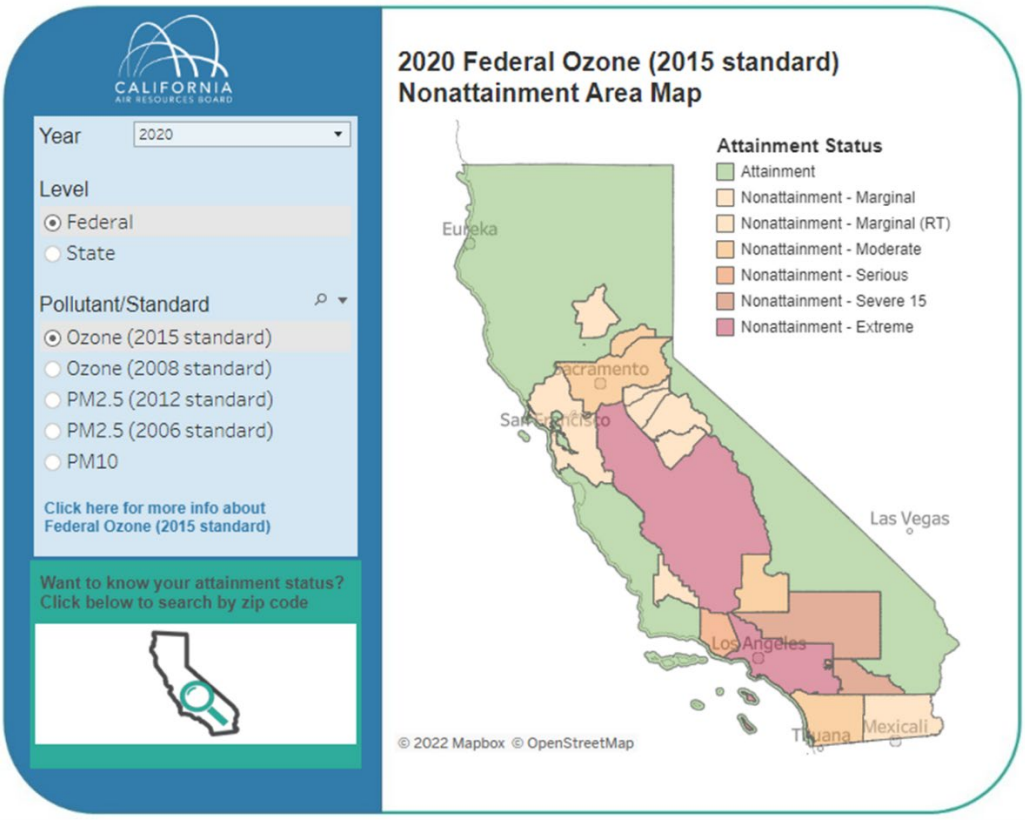


Additional site meta data is available in the attachments, excerpted from the *Annual Network Plan, Covering Monitoring Operations in 25 California Air Districts* dated July 2022, Appendix A, page 60.

40 CFR Part 58, Appendix D describes specific requirements for the number and location of FRM, FEM, and Approved Regional Method (ARM) sites for specific pollutants. Appendix D also states that the ambient air monitoring networks must be designed to meet the following three basic monitoring objectives as follows:

a. Provide air pollution data to the general public in a timely manner.
b. Support compliance with ambient air quality standards and emissions strategy development.
c. Support air pollution research studies.

Figure 2



Source: https://ww2.arb.ca.gov/aaqs-designation-tool

The District is included in the 2022 Annual Network Plan authored by the California Air Resources Board. The District currently operates three ambient air quality monitors for ozone. Attached is Table 10 from the *Annual Network Plan, Covering Monitoring Operations in 25 California Air Districts* dated July 2022, Section 5A, page 20, which details the minimum monitoring requirements and the highest ozone for the air districts in the California Air Resources Board Primary Quality Assurance Organization. The highest concentration in Redding Metropolitan Statistical Area, as identified in the 2022 Annual Network Plan, was at the Redding-Health Department site, inside the city limits of Redding.

In addition, 40 CFR Part 58, Appendix D also states that the optimum size of a particular network involves trade-offs among data needs and available resources. During EPA's 2022 Technical Service Audit (TSA) of the ozone

monitoring network in Shasta County, it was identified that the District does not currently possess the required equipment and funding to run all three (3) of its ozone monitoring stations to current standards. This is in part due to the new interpretation of requirements regarding quality control equipment used to run precision checks on ozone analyzers. While the District does operate reliable calibration equipment, it only has two units in service which meets the revised requirements as identified in the EPA TSA. Also identified in the TSA were issues with the layout of one of the ozone monitoring sites. The ozone monitor at the Anderson site is sequestered in a small boiler room at a police station where access is difficult, and storage of paints and nearby cleaners may theoretically affect the analyzer.

With the removal of the Anderson site, the District would still meet or surpass all requirements of 40 CFR Part 58, Appendix D. Furthermore, it would not compromise any necessary data collection for the implementation of the NAAQS. The District would also continue to meet all three basic monitoring objectives previously described. Discontinuing the ozone monitor at the Anderson site will free up resources and allow the District to focus on more critical monitoring activities.

Pending your approval, due to current resource and budget constraints as well as marginally sited equipment, the District is requesting to permanently shut down the Anderson North Street site (AQS site ID: 06-089-0007) at the end of the quarter following EPA approval. Please feel free to contact Rob Stahl, Air Quality District Manager, with any questions or concerns at 530-225-5674.

Sincerely,

Paul Hellman
Air Pollution Control Officer

PH/RS/md

Enclosures

CC: Shaye Hong, US Environmental Protection Agency, sent via email: Hong.Shaye@epa.gov
Jin Xu, California Air Resources Board, sent via email: Jin.Xu@arb.ca.gov
Louise Sorensen, California Air Resources Board, sent via email: Louise.Sorensen@arb.ca.gov
Melissa Niederreiter, California Air Resources Board, sent via email: Melissa.Niederreiter@arb.ca.gov
Aman Bains, California Air Resources Board, sent via email: Aman.Bains@arb.ca.gov

Shasta County AQMD

Local Site Name	Anderson-North Street				
AQS ID	06-089-0007				
GPS Coordinates	40.45318, -122.29883				
Street Address	2220 North St, Anderson, 96007				
County	Shasta				
Distance to roadways (meters)	717 to CA-273; 818 to I-5				
Traffic Count (AADT,year)	8,600 (CA-273); 51,000 (I-5) (2015)				
Ground Cover	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other)	Redding Metropolitan Statistical Area				
Pollutant, POC	Ozone, 1	PM10, 1			
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary			
Parameter Code	44201	81102			
Basic monitoring objective(s)	NAAQS	NAAQS			
Site type(s)	Population Exposure	Highest Concentration			
Monitor type(s)	SLAMS	SLAMS			
Network affiliation(s)	N/A	N/A			
Instrument manufacturer and model	Teledyne API 400	Sierra Andersen 1200			
Method code	87	63			
FRM/FEM/ARM/Other	FEM	FRM			
Collecting Agency	Shasta County	Shasta County			
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	ARB			
Reporting Agency	Shasta County	ARB			
Spatial scale	Neighborhood	Neighborhood			
Monitoring start date	05/01/1993	05/01/1993			
Current sampling frequency	Continuous	1:6			
Required sampling frequency including exceptional events	N/A	1:6			
Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec			
Probe height (meters)	7	5.5			
Distance from supporting structure (meters)	3	>2			
Distance from obstructions on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions on roof (meters)	N/A	N/A			
Distance from obstructions not on roof (meters)	No obstructions	No obstructions			
Height above probe for obstructions not on roof (meters)	N/A	N/A			
Distance to nearest tree drip line (meters)	>10	>10			
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 % of monitoring path)	360	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	6.9	N/A			
Will there be changes within the next 18 months?	No	Closed			
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A			
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	<90 days			
Frequency of flow rate verification for automated PM analyzers	N/A	N/A			
Frequency of one-point QC check for gaseous instruments	weekly	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/11/2021	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	10/11/2021			

Table 10: CBSAs with Minimum Ozone Monitoring Requirements

Metropolitan Statistical Area	2010 Census Population (2020 Population Estimate*)	2018-2020 Design Value (% of NAAQS) *DV Site*	Required # of Sites	SLAMS Sites Operating in 2020 (District where site is located) *Highest Concentration Sites Denoted by Bold Text*
Bakersfield	839,361 (901,362)	0.093 ppm (133%) *Edison*	2	**Arvin-Di Giorgio (San Joaquin Valley)** Bakersfield-5558 California Avenue (San Joaquin Valley) **Bakersfield-Municipal Airport (San Joaquin Valley**) **Edison (San Joaquin Valley)** Maricopa-Stanislaus Street (San Joaquin Valley) **Mojave-923 Poole Street (Eastern Kern)** Oildale-3311 Manor Street (San Joaquin Valley) Shafter-Walker Street (San Joaquin Valley)
Chico	220,000 (212,744)	0.073 ppm (104%) *Paradise*	1	Chico-East Avenue (Butte County) **Paradise-4405 Airport Road (Butte County)**
El Centro	174,528 (180,267)	0.078 ppm (111%) *Calexico*	1	**Calexico-Ethel Street (Imperial)** **El Centro-9th Street (Imperial)** Niland-English Road (Imperial) Westmorland (Imperial)
Los Angeles-Long Beach-Anaheim	12,828,837 (13,109,903)	0.107 ppm (153%) *Glendora*	4	Anaheim-Pampas Lane (South Coast) Azusa (South Coast) Compton-700 North Bullis Road (South Coast) **Glendora-Laurel (South Coast)** La Habra (South Coast) Lancaster-43301 Division Street (Antelope Valley) Long Beach-Signal Hill (South Coast) Los Angeles-LAX (South Coast) Los Angeles-North Main Street (South Coast) Mission Viejo-26081 Via Pera (South Coast) North Hollywood (South Coast) Pasadena-S Wilson Avenue (South Coast) Pico Rivera-4144 San Gabriel (South Coast) Pomona (South Coast) Reseda (South Coast) **Santa Clarita (South Coast)** West Los Angeles-VA Hospital (South Coast)
Oxnard-Thousand Oaks-Ventura	823,318 (841,387)	0.077 ppm (110%) *Simi Valley*	3	El Rio-Rio Mesa School #2 (Ventura) Ojai-Ojai Avenue (Ventura) Piru-3301 Pacific Avenue (Ventura) **Simi Valley-Cochran Street (Ventura)** Thousand Oaks-Moorpark Road (Ventura)
Redding	177,223 (179,027)	0.068 ppm (97%) *Anderson/ Shasta*	1	Anderson-North Street (Shasta County) **Redding-Health Dept Roof (Shasta County)** Shasta Lake-13791 Lake Blvd (Shasta County)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: RXD

MAXIMUM VALUES REPORT

Report Request ID: 2090288 Report Code: AMP440 Mar. 28, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	06	089									

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
CRITERIA	44201		

SELECTED OPTIONS

Option Type	Option Value
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

DATE CRITERIA

Start Date	End Date
2018	2022

APPLICABLE STANDARDS

Standard Description
Ozone 8-hour 2015

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2018

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0004	1	Shasta	087		.076	.064	.061	.060	.060	5757	1	0
		Redding			08/10:09	08/25:10	08/14:10	06/27:11	08/20:10			
					.059	.058	.057	.057	.056			
					06/26:12	09/07:10	07/29:10	08/26:09	04/26:11			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2018

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0007	1	Shasta	087		.081	.080	.078	.076	.073	4959	9	0
		Anderson			08/10:09	08/01:11	08/02:10	08/08:10	07/29:11			
					.073	.071	.071	.071	.069			
					08/25:10	07/31:11	08/03:13	08/09:10	07/26:11			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2018

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0009	1	Shasta	087		.088	.081	.079	.079	.079	5933	11	0
		Shasta Lake			08/10:10	08/01:11	08/02:10	08/08:09	08/09:10			
					.078	.076	.072	.072	.071			
					08/25:10	08/14:09	08/16:09	08/26:09	06/27:10			

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2018

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-3003	1	Shasta	047		.083	.081	.077	.077	.074	6000	13	0
		Not in a city			08/01:10	07/31:11	08/09:10	08/10:11	08/25:10			
					.073	.073	.073	.073	.072			
					07/28:10	07/29:10	07/30:11	08/08:10	08/02:09			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2019

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0004	1	Shasta	087		.070	.064	.063	.062	.061	5400	0	0
		Redding			09/03:09	07/26:09	07/31:10	08/01:10	06/16:10			
					.061	.061	.058	.057	.057			
					08/07:10	08/27:09	08/28:11	06/03:09	06/14:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2019

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0007	1	Shasta	087		.065	.064	.064	.063	.063	4865	0	0
		Anderson			08/07:11	08/01:10	08/27:10	06/03:13	07/26:09			
					.062	.061	.061	.060	.059			
					07/31:10	06/16:10	08/17:12	05/11:10	05/04:10			

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2019

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0009	1	Shasta	087		.067	.066	.064	.061	.060	5780	0	0
		Shasta Lake			08/01:10	08/07:10	07/26:11	07/31:10	05/11:10			
					.059	.059	.059	.059	.059			
					05/04:10	07/30:10	08/17:11	08/20:09	08/28:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2019

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-3003	1	Shasta	047		.061	.060	.059	.059	.057	5652	0	0
		Not in a city			06/12:09	10/16:07	08/01:11	09/15:08	07/31:11			
					.057	.056	.056	.056	.056			
					08/17:11	06/30:10	07/26:11	07/30:10	08/06:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2020

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0004	1	Shasta	087		.069	.062	.062	.060	.059	5467	0	0
		Redding			09/03:08	07/16:09	08/23:09	07/31:09	07/28:10			
					.058	.057	.057	.056	.056			
					07/18:10	07/20:11	07/30:09	07/21:10	08/01:10			

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2020

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0007	1	Shasta	087		.073	.069	.067	.066	.063	5904	1	0
		Anderson			09/03:10	09/14:10	09/02:11	09/15:10	08/28:13			
					.063	.062	.062	.062	.061			
					08/29:11	05/09:11	07/19:11	09/30:10	08/25:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2020

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0009	1	Shasta	087		.078	.066	.065	.064	.063	5948	1	0
		Shasta Lake			09/03:10	09/14:10	08/29:10	08/23:09	07/20:10			
					.063	.062	.061	.060	.059			
					09/15:10	09/02:10	09/13:10	09/16:09	07/21:09			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2020

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-3003	1	Shasta	047		.079	.075	.069	.069	.068	6066	2	0
		Not in a city			09/15:09	08/22:11	09/12:09	09/14:07	09/04:09			
					.068	.066	.066	.065	.065			
					09/16:09	05/10:08	08/25:11	08/21:10	08/23:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2021

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0004	1	Shasta	087		.067	.066	.066	.065	.064	5928	0	0
		Redding			08/24:10	07/05:08	08/15:11	08/23:10	05/13:11			
					.063	.063	.062	.061	.061			
					08/25:10	09/15:10	08/29:11	05/14:10	07/09:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2021

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0007	1	Shasta	087		.067	.065	.063	.063	.062	6105	0	0
		Anderson			05/13:12	08/24:11	08/23:11	08/25:11	08/14:11			
					.062	.061	.061	.061	.060			
					09/08:10	07/09:11	07/22:11	08/31:12	05/14:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2021

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0009	1	Shasta	087		.073	.070	.069	.068	.066	5887	1	0
		Shasta Lake			08/24:10	07/22:11	08/23:10	08/25:10	09/15:10			
					.065	.064	.064	.064	.063			
					08/30:10	07/05:09	07/09:11	07/14:11	06/02:09			

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2021

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-3003	1	Shasta	047		.077	.076	.076	.075	.075	5899	9	0
		Not in a city			08/07:11	07/23:12	08/16:10	08/23:12	08/29:11			
					.073	.073	.072	.072	.070			
					08/24:09	08/25:09	07/22:09	08/15:12	08/08:09			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2022

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0004	1	Shasta	087		.076	.075	.073	.071	.070	5773	4	0
		Redding			07/28:10	07/29:11	08/17:10	07/27:10	07/25:11			
					.068	.067	.066	.065	.064			
					07/26:09	09/07:10	06/22:12	07/14:09	07/12:10			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2022

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
					6th Max	7th Max	8th Max	9th Max	10th Max			
06-089-0007	1	Shasta	087		.069	.069	.069	.066	.066	5015	0	0
		Anderson			07/28:11	07/29:11	09/07:08	07/25:11	07/27:10			
					.062	.061	.061	.061	.060			
					10/04:11	08/29:10	08/31:10	09/01:10	07/21:09			

UNITED STATES ENVIRONMENTAL PROCTECTION AGENCY
AIR QUALITY SUBSYSTEM
MAXIMUM VALUES REPORT

Mar. 28, 2023

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2022

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-0009	1	Shasta	087		.071	.071	.070	.065	.065	5985	2	0
		Shasta Lake			07/27:09	07/29:10	08/17:10	07/14:10	07/26:10			
					.064	.064	.061	.061	.061			
					07/25:11	10/03:09	07/20:09	07/28:12	08/29:08			

Ozone (44201)

State: California
Duration: 8-HR RUN AVG BEGIN HOUR
Year: 2022

Primary: .07
Secondary: .07
Unit: Parts per million

Maximum Values

Site ID	POC	County Name / City Name		Methods	1st Max / 6th Max	2nd Max / 7th Max	3rd Max / 8th Max	4th Max / 9th Max	5th Max / 10th Max	Num Obs	Num Exc	EDT ID
06-089-3003	1	Shasta	047		.065	.064	.062	.061	.061	5823	0	0
		Not in a city			09/07:11	09/10:09	09/02:13	06/22:12	06/29:12			
					.059	.058	.058	.058	.058			
					06/07:11	04/03:09	04/26:09	06/16:14	06/23:10			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: RXD

DESIGN VALUE REPORT

Report Request ID: 2090290 Report Code: AMP480 Mar. 28, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	06	089									

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	44201		

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2018	2022

APPLICABLE STANDARDS

Standard Description
Ozone 8-hour 2015

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
PRELIMINARY DESIGN VALUE REPORT

Report Date: Mar. 28, 2023

Pollutant: Ozone(44201)
Standard Units: Parts per million(007)
NAAQS Standard: Ozone 8-hour 2015
Statistic: Annual 4th Maximum **Level:** .07

Design Value Year: 2018
REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
State: California

Site ID	Poc	STREET ADDRESS	2018 Valid Days	2018 Percent Complete	2018 4th Max	2018 Cert& Eval	2017 Valid Days	2017 Percent Complete	2017 4th Max	2017 Cert& Eval	2016 Valid Days	2016 Percent Complete	2016 4th Max	2016 Cert& Eval	3 - Year Percent Complete	3 - Year Design Value	D. V. Validity
06-089-0004		HLTH CTR-2630 BRESLAUER WAY, REDDING	334	92	.060	Y	353	97	.069	Y	361	99	.072	Y	96	.067	Y
06-089-0007		2220 NORTH STREET, ANDERSON, CA 96007	291	80	.076	M	295	81	.061	N	358	98	.067	Y	86	.068	N
06-089-0009		13791 Lake Blvd, Shasta Lake, CA	346	95	.079	Y	364	100	.075	Y	359	98	.076	Y	98	.076	Y
06-089-3003		MANZANITA LAKE RS, LASSEN VOLCANIC NP	348	95	.077	Y	353	97	.064	S	338	92	.064	Y	95	.068	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

Pollutant: Ozone(44201)
Standard Units: Parts per million(007)
NAAQS Standard: Ozone 8-hour 2015
Statistic: Annual 4th Maximum **Level:** .07

Design Value Year: 2019

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: California

Site ID	Poc	STREET ADDRESS	2019 Valid Days	2019 Percent Complete	2019 4th Max	2019 Cert& Eval	2018 Valid Days	2018 Percent Complete	2018 4th Max	2018 Cert& Eval	2017 Valid Days	2017 Percent Complete	2017 4th Max	2017 Cert& Eval	3 - Year Percent Complete	3 - Year Design Value	D. V. Validity
06-089-0004		HLTH CTR-2630 BRESLAUER WAY, REDDING	315	86	.062	Y	334	92	.060	Y	353	97	.069	Y	92	.063	Y
06-089-0007		2220 NORTH STREET, ANDERSON, CA 96007	287	79	.063	Y	291	80	.076	M	295	81	.061	N	80	.066	N
06-089-0009		13791 Lake Blvd, Shasta Lake, CA	331	91	.061	Y	346	95	.079	Y	364	100	.075	Y	95	.071	Y
06-089-3003		MANZANITA LAKE RS, LASSEN VOLCANIC NP	322	88	.059	S	348	95	.077	Y	353	97	.064	S	93	.066	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

Pollutant: Ozone(44201)
Standard Units: Parts per million(007)
NAAQS Standard: Ozone 8-hour 2015
Statistic: Annual 4th Maximum **Level:** .07

Design Value Year: 2020

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: California

			2020				2019				2018				3 - Year		
Site ID	Poc	STREET ADDRESS	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
06-089-0004		HLTH CTR-2630 BRESLAUER WAY, REDDING	311	85	.060	Y	315	86	.062	Y	334	92	.060	Y	88	.060	N
06-089-0007		2220 NORTH STREET, ANDERSON, CA 96007	346	95	.066	Y	287	79	.063	Y	291	80	.076	M	85	.068	N
06-089-0009		13791 Lake Blvd, Shasta Lake, CA	340	93	.064	Y	331	91	.061	Y	346	95	.079	Y	93	.068	Y
06-089-3003		MANZANITA LAKE RS, LASSEN VOLCANIC NP	352	96	.069	S	322	88	.059	S	348	95	.077	Y	93	.068	Y

Notes:
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

Pollutant: Ozone(44201)
Standard Units: Parts per million(007)
NAAQS Standard: Ozone 8-hour 2015
Statistic: Annual 4th Maximum **Level:** .07

Design Value Year: 2021

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: California

Site ID	Poc	STREET ADDRESS	2021 Valid Days	2021 Percent Complete	2021 4th Max	2021 Cert& Eval	2020 Valid Days	2020 Percent Complete	2020 4th Max	2020 Cert& Eval	2019 Valid Days	2019 Percent Complete	2019 4th Max	2019 Cert& Eval	3 - Year Percent Complete	3 - Year Design Value	D. V. Validity
06-089-0004		HLTH CTR-2630 BRESLAUER WAY, REDDING	340	93	.065	Y	311	85	.060	Y	315	86	.062	Y	88	.062	N
06-089-0007		2220 NORTH STREET, ANDERSON, CA 96007	356	98	.063	Y	346	95	.066	Y	287	79	.063	Y	91	.064	Y
06-089-0009		13791 Lake Blvd, Shasta Lake, CA	334	92	.068	Y	340	93	.064	Y	331	91	.061	Y	92	.064	Y
06-089-3003		MANZANITA LAKE RS, LASSEN VOLCANIC NP	339	93	.075	S	352	96	.069	S	322	88	.059	S	92	.067	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

Pollutant: Ozone(44201)
Standard Units: Parts per million(007)
NAAQS Standard: Ozone 8-hour 2015
Statistic: Annual 4th Maximum **Level:** .07

Design Value Year: 2022

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: California

Site ID	Poc	STREET ADDRESS	2022 Valid Days	2022 Percent Complete	2022 4th Max	2022 Cert& Eval	2021 Valid Days	2021 Percent Complete	2021 4th Max	2021 Cert& Eval	2020 Valid Days	2020 Percent Complete	2020 4th Max	2020 Cert& Eval	3 - Year Percent Complete	3 - Year Design Value	D. V. Validity
06-089-0004		HLTH CTR-2630 BRESLAUER WAY, REDDING	327	90	.071	Y	340	93	.065	Y	311	85	.060	Y	89	.065	N
06-089-0007		2220 NORTH STREET, ANDERSON, CA 96007	290	79	.066	Y	356	98	.063	Y	346	95	.066	Y	91	.065	Y
06-089-0009		13791 Lake Blvd, Shasta Lake, CA	337	92	.065	Y	334	92	.068	Y	340	93	.064	Y	92	.065	Y
06-089-3003		MANZANITA LAKE RS, LASSEN VOLCANIC NP	337	92	.061		339	93	.075	S	352	96	.069	S	94	.068	Y

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

Notes: 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

CALIFORNIA
AIR RESOURCES BOARD

Gavin Newsom, Governor
Yana Garcia, CalEPA Secretary
Liane M. Randolph, Chair

March 7, 2023

Ms. Dena Vallano, Supervisor

Monitoring and Analysis Section

U.S. Environmental Protection Agency, Region 9, Air Division

75 Hawthorne Street

San Francisco, California 94105

Vallano.Dena@epa.gov

Dear Ms. Vallano,

The California Air Resources Board (CARB) is submitting to the U.S. Environmental Protection Agency (U.S. EPA), a request for approval to relocate the Visalia-North Church Street air monitoring station (Station) (AQS # 061072002). Justification for relocation is based on 40CFR, §58.14(c)(6): *A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section 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.*

CARB was notified in June 2019 of the intention of the Church Street building owner to expand into CARB's leased space by June 2021. In consultation with CARB's Air Quality Planning and Science Division (AQPSD), an inquiry into viable replacement site locations was started with the intention of maintaining relative comparability to the existing site. Between February 2020 and June 2021, the California Department of General Services (DGS) provided CARB with approximately seven potential relocation sites that fulfilled both siting and facility requirements in areas that had been approved by AQPSD. Over the course of this time, complications arose with each lessor over up-front financial wherewithal for site improvements, ADA-compliance, or availability of a location within CARB's time frame for relocation. In March of 2021, CARB was granted a final extension at the Church Street site for tenancy until December 31, 2021. In November 2021, DGS secured an agreement for a site on behalf of CARB at 2005 West Ashland Avenue, Suite G (Ashland) (AQS # 061072003). This location was then again vetted by AQPSD. A lease agreement and improvements were expedited to minimize any potential for data loss and maintain data completeness for the subsequent monitoring year.

The original purpose of the Church Street site was to monitor representative concentrations of ozone, PM10, and PM2.5 from upwind and nearby urban areas. We intend to continue this monitoring objective by having selected this representative location, an area similar to the

Church Street site of mixed residential and commercial use in the vicinity. The Ashland location is approximately 3,363 meters (2.09 miles) Southwest from the North Church Street station (Figure 1), 65 meters from South Mooney Boulevard/Highway 63 (Figure 3), and similar in scale and representation (Traffic Volume approximately 26,000) (Figures 4 and 5) to the previous Church Street location. The distance from the Ashland station to Highway 198 increased from 607 meters to 2090 meters (Church vs. Ashland, respectively). Minimum distance (30-40 meters) from roadway is within specifications for ozone and PM, the probe height and inlets are consistent (urban setting, second story building), are approximately 65 meters from the nearest lane of traffic with 270 degrees of clearance and maintain all proper siting protocols as outlined in *Performance Audit Procedures for Conducting a Site Survey, QMB SOP Appendix AE Revision 4 (2020).* EPA's Technical Systems Audit (TSA) on-site visit in July 2022 and CARB's Quality Assurance performance evaluation in November 2022 both concurred with siting compliance with respect to the surrounding vegetation. Approximately 35 meters to the Northwest of the probe, is a cluster of Giant Sequoia trees (ranging from 27m to 41m tall) which was evaluated and determined unlikely to affect ozone or PM concentrations (Prevailing winds are predominately Northwest and Southeast, similar to Church Street (see figures 6 and 7).

Design value analysis suggests continued, current attainment designations for Ozone, PM2.5, and PM10 to carry over at the Ashland site. All monitoring parameters will remain unchanged from the Church Street station (Attachments 1 and 2). While the Church Street site met shutdown criteria for NO2, the parameter will continue to be monitored at Ashland Avenue under 'maintenance' conditions for NAAQS-comparison purposes. Ashland Avenue NO2 concentrations track similarly to Church Street from the years 2019 to 2021 (Figure 2, Attachment 4). Ozone has shown attainment over the last five years for 1-hour maximum concentrations (8-hour max not included) but does not meet the <10% probability of exceeding 80% of NAAQS for both the 1-hour and 8-hour max requirements. Visalia- Church Street max 8-hour ozone design value, with exceptional event impacts removed, is the second highest for the Valley with the fifth highest population count for 2021. San Joaquin Valley is designated nonattainment for PM2.5 and continues its 2007 PM10 attainment status, per 2021 San Joaquin Valley Air Pollution Control District (SJVAPCD) Annual Network Plan (ANP). In 2021, PM10 24-hour highest metropolitan statistical area (MSA) concentrations were the fifth highest (299ug/m3) among other sites in the Valley and third highest for PM2.5 (66ug/m3). See attachment 3 for system modification analyses.

With respect to Visalia's attainment status for the above pollutants and verification that 40CFR, Part 58, Appendix D requirements continue to be satisfied with this relocation, CARB staff compared daily average concentration values between the Church Street and Ashland Avenue sites annually, over three consecutive calendar years (2019 – 2021 for Church) and available site data since relocation (2022 for Ashland only). Attachment 4 below represents recorded daily concentration averages as reported from EPA's Air Quality System (AQS) and AirNow data for the monitored O3, NO2, PM2.5, and PM10 parameters at Church Street and Ashland Avenue sites. The graphs depicted in attachment 4 demonstrate that concentration

trends recorded at Ashland Avenue in 2022 align with historical trends recorded at Church Street in the years 2019 through 2021. With respect to PM2.5 trends in 2020 and 2021, concentrations at Church Street in the Fall and Winter months are noticeably higher than those of the same time period at the Ashland station likely due to an unusually active fire season originating from mainly northern counties such as Butte, Plumas, Shasta, Lassen, Siskiyou, Trinity, and Tehama counties (figures 8 and 9). In 2020, over 3.5 million acres were burned between August and October alone, and 2.6 million total acres burned in 2021, with approximately 1100 acres burned in January (https://www.fire.ca.gov/incidents/). CARB and AQPSD staff anticipate future data trends to remain consistent with historical trends based on proximity and similar topography between Church Street and Ashland Avenue.

CARB will continue to work with local air districts to ensure data is reported both accurately and in a timely fashion to best serve the community and data clients. No further actions are being taken to relocate the Ashland station.

If you need any additional information, please contact Mr. Adolfo Garcia, Manager, Air Quality Surveillance Branch, at 626.575.6701 or Adolfo.Garcia@arb.ca.gov.

Sincerely,

Kathy Gill

Kathy Gill, Chief, Air Quality Surveillance Branch

Attachment(s): 4

Figure(s): 9

CC: See next page

CC:

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Reggie Smith, Manager, Operation and Data Support Section

Alicia Adams, Supervisor, Air Quality Planning and Science Division

Jin Xiu, Supervisor, Air Quality Planning and Science Division

Kyle Ochoa, Air Pollution Specialist, Air Monitoring South Section

Attachment 1
Visalia- North Church Street

Station Details

Local Site Name	Visalia – Church St				
AQS ID	06-107-2002				
GPS Coordinates	36.3325 N, -119.2909 W				
Street Address	310 N. Church St., Visalia CA 93291				
County	Tulare				
Distance to roadways (meters)	25 m (west)				
Traffic Count (AADT,year)	10,000/2017(Traffic count for nearest roads: N Court St and W School Ave, Source: Caltrans AADT 2017)				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Visalia–Porterville				
Pollutant, POC	Ozone	NO2	PM10	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	
Parameter Code	44201	42602	81102	88502	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	General/Background	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	None	None	None	None	
Instrument manufacturer and model	Teledyne API T400	Thermo 42 IQ	Met One 1020	Met One 1020	
Method code	87	74	122	731	
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	1/1/1979	1/1/1979	8/1/2015	12/1/2020*	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	6.8	6.8	6.3	6.5	
Distance from supporting structure (meters)	2.8	2.8	2.3	2.5	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	N/A	N/A	N/A	N/A	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	9.62	10.01	N/A	NA	
Will there be changes within the next 18 months?	Yes	Yes	Yes	Yes	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Bi-Monthly	Bi-Monthly	
Frequency of one-point QC check for gaseous instruments	5 Days/Week	5 Days/Week	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	10/5/2021	10/5/2021	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	4/13/2021 10/5/2021	4/13/2021 10/5/2021	
		*FRM converted to continuous as of 12/20			

Attachment 2
Visalia- West Ashland Avenue

Station Details

Local Site Name	Visalia – West Ashland Avenue				
AQS ID	06-107-2003				
GPS Coordinates	36.308150N, -119.312900W				
Street Address	2005 W. Ashland Ave., suite G, Visalia CA 93277				
County	Tulare				
Distance to roadways (meters)	65 m (west)				
Traffic Count (AADT,year)	26,000				
Ground Cover	Paved				
Representative statistical area name (i.e. MSA, CBSA, other)	Visalia–Porterville				
Pollutant, POC	Ozone	NO2	PM10	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	
Parameter Code	44201	42602	81102	88502	
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	
Site type(s)	General/Background	Population Exposure	Population Exposure	Population Exposure	
Monitor type(s)	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation(s)	None	None	None	None	
Instrument manufacturer and model	Teledyne API T400	Thermo 42 IQ	Met One 1020	Met One 1020	
Method code	87	74	122	731	
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	
Collecting Agency	ARB	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	
Reporting Agency	ARB	ARB	ARB	ARB	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	01/13/2022	02/04/2022	02/15/2022	01/13/2022	
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	N/A	N/A	
Sampling season	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	
Probe height (meters)	11.3	11.3	6.3	6.5	
Distance from supporting structure (meters)	2.1	2.1	2.3	2.1	
Distance from obstructions on roof (meters)	No Obstructions	No Obstructions	No Obstructions	No Obstructions	
Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Height above probe for obstructions not on roof (meters)	N/A	N/A	N/A	N/A	
Distance to nearest tree drip line (meters)	N/A	N/A	N/A	N/A	
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 % of monitoring path)	360	360	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	N/A	N/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.1	10.01	N/A	NA	
Will there be changes within the next 18 months?	NO	NO	NO	NO	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	N/A	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A	N/A	N/A	
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Bi-Monthly	Bi-Monthly	
Frequency of one-point QC check for gaseous instruments	5 Days/Week	5 Days/Week	N/A	N/A	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	11/3/2022	11/3/2022	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	N/A	5/17/2022 11/3/2022	5/17/2022 11/3/2022	

Attachment 3
Visalia- North Church Street

System Modification Analysis

Site: **Visalia - Church (AQS: 061072002)**
Pollutant: **Ozone**

2017 - 2021 8-Hour Ozone NAAQS

0.070	**ppm**	**<-- Ozone 4th Maximum 8-Hour NAAQS**

2017 Design Value (ppm)	2018 Design Value (ppm)	2019 Design Value (ppm)	2020 Design Value (ppm)	2021[1] Design Value (ppm)	Average Design Value (X) (ppm)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ppm)	80% of NAAQS (ppm)	< 10% Probability of exceeding 80% of NAAQS?
0.083	0.085	0.084	0.083	0.084	0.084	0.00	2.13	5	0.08	0.06	FAIL

1. Church Street monitoring operations discontinued in December 2021.

Site: **Visalia - Church (AQS: 061072002)**
Pollutant: **PM 2.5**

2017 - 2021 24-Hour NAAQS

35	**ug/m³**	**<-- PM2.5 98th Percentile 24-Hour NAAQS**

2017 Design Value (ug/m3)	2018 Design Value (ug/m3)	2019 Design Value (ug/m3)	2020 Design Value (ug/m3)	2021[1] Design Value (ug/m3)	Average Design Value (ug/m3) (X)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ug/m3)	80% of NAAQS (ug/m3)	< 10% Probability of exceeding 80% of NAAQS?
54.0	60.0	61.0	64.0	66.0	61.0	4.58	2.13	5	65	28	FAIL

1. Church Street monitoring operations discontinued in December 2021.

2017 - 2021 Annual Arithmetic Mean NAAQS

12	**ug/m³**	**<-- PM2.5 Annual Arithmetic Mean NAAQS**

2017 Design Value (ug/m3)	2018 Design Value (ug/m3)	2019 Design Value (ug/m3)	2020 Design Value (ug/m3)	2021[1] Design Value (ug/m3)	Average Design Value (ug/m3) (X)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ug/m3)	80% of NAAQS (ug/m3)	< 10% Probability of exceeding 80% of NAAQS?
15.7	16.1	15.5	16.6	17.8	16.3	0.92	2.13	5	17	10	FAIL

1. Church Street monitoring operations discontinued in December 2021.

Site: **Visalia - Church (AQS: 061072002)**
Pollutant: **PM 10**

2017 - 2021 NAAQS 24-Hour Maximum Concentration

150	ug/m³	<-- PM10 24-Hour NAAQS

2017 Maximum Conc. (ug/m3)	2018 Maximum Conc. (ug/m3)	2019 Maximum Conc. (ug/m3)	2020 Maximum Conc. (ug/m3)	2021[1] Maximum Conc. (ug/m3)	Average Maximum Conc. (ug/m3) (X)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ug/m3)	80% of NAAQS (ug/m3)	< 10% Probability of exceeding 80% of NAAQS?
144.0	153.0	410.0	316.0	299.0	264.4	114.0	2.13	5	373	120	FAIL

1. Church Street monitoring operations discontinued in December 2021.

2017 - 2021 NAAQS 24-Hour Design Concentration

150	ug/m³	<-- PM10 24-Hour NAAQS

2017 Design Conc. (ug/m3)	2018 Design Conc. (ug/m3)	2019 Design Conc. (ug/m3)	2020 Design Conc. (ug/m3)	2021[1] Design Conc. (ug/m3)	Average Design Conc. (ug/m3) (X)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ug/m3)	80% of NAAQS (ug/m3)	< 10% Probability of exceeding 80% of NAAQS?
131.0	121.3	166.3	203.7	211.0	166.7	40.8	2.13	5	206	120	FAIL

1. Church Street monitoring operations discontinued in December 2021.

Site: **Visalia - Church (AQS: 061072002)**
Pollutant: **Nitrogen Dioxide**

2017 - 2021 1-Hour Nitrogen Dioxide NAAQS

100	ppb	<-- Nitrogen Dioxide 98th percentile of 1-Hour NAAQS

2017 Design Value (ppm)	2018 Design Value (ppm)	2019 Design Value (ppm)	2020 Design Value (ppm)	2021 Design Value (ppm)	Average Design Value (X) (ppm)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ppm)	80% of NAAQS (ppm)	< 10% Probability of exceeding 80% of NAAQS?
49.0	51.0	55.0	52.0	48.0	51.0	2.739	2.13	5	54	80	PASS

2017 - 2021 Annual Mean Nitrogen Dioxide NAAQS

53	ppb	<-- Nitrogen Dioxide Annual Mean NAAQS

2017 Design Value (ppm)	2018 Design Value (ppm)	2019 Design Value (ppm)	2020 Design Value (ppm)	2021 Design Value (ppm)	Average Design Value (X) (ppm)	Standard Deviation (s)	Student's t value (90% confidence) (t)	Number of Data Values (n)	90% Upper Confidence Interval (ppm)	80% of NAAQS (ppm)	< 10% Probability of exceeding 80% of NAAQS?
9.8	10.2	10.4	9.9	9.2	9.9	0.423	2.13	5	10	42	PASS

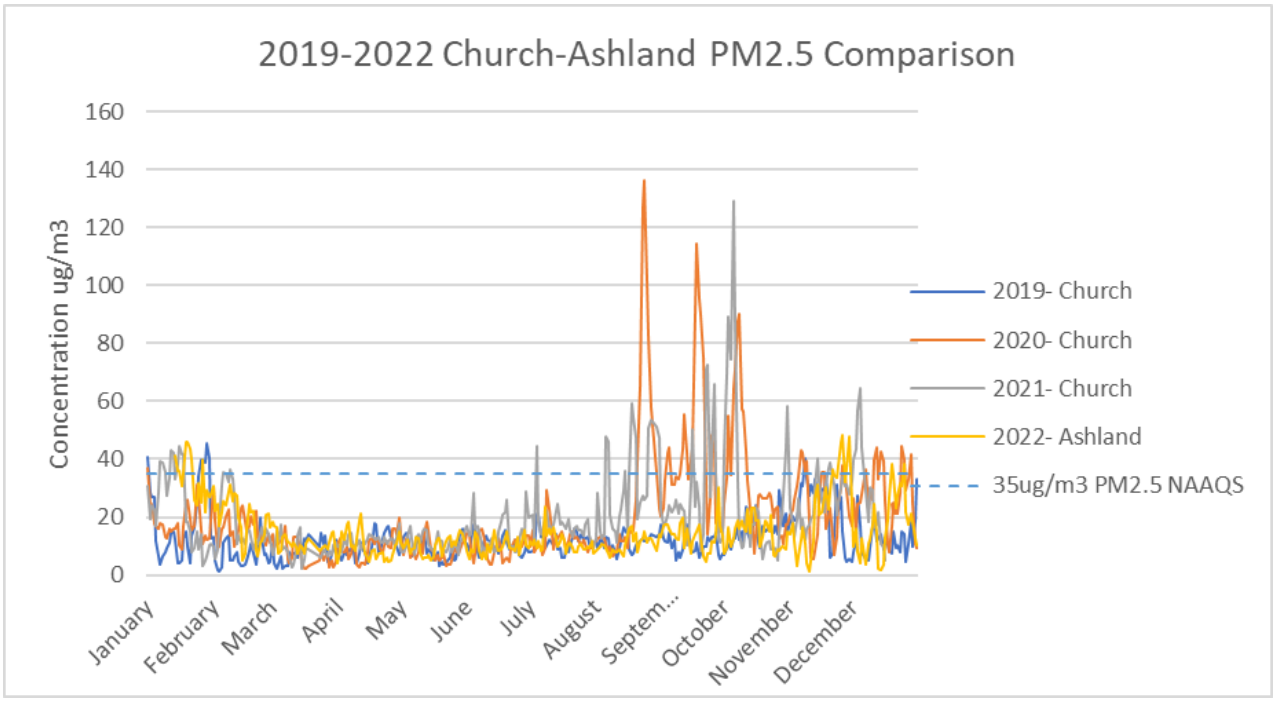
System Modification Analysis 40 CFR 58.14

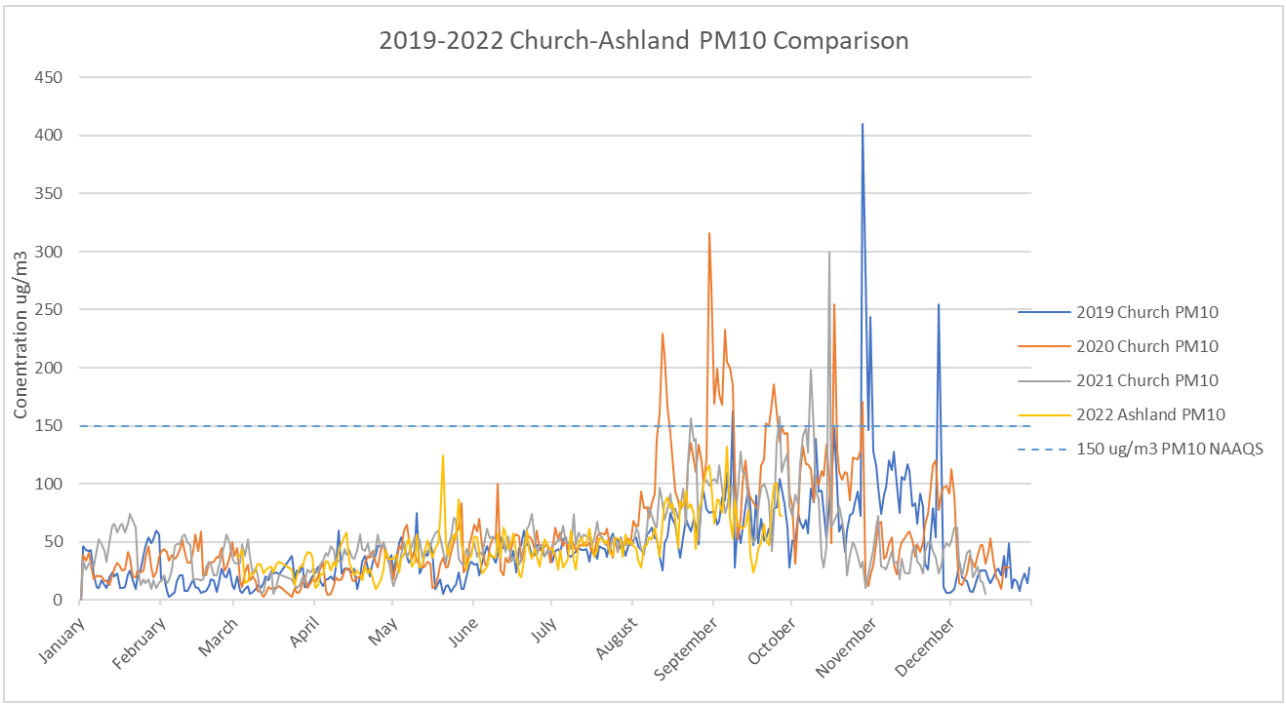
Source: EPA Ambient Air Monitoring Network Assessment Guidance; (EPA-454/D-07-001 February 2007), revised December 2015
Source: EPA-AQS AMP450 and AMP480 Reports

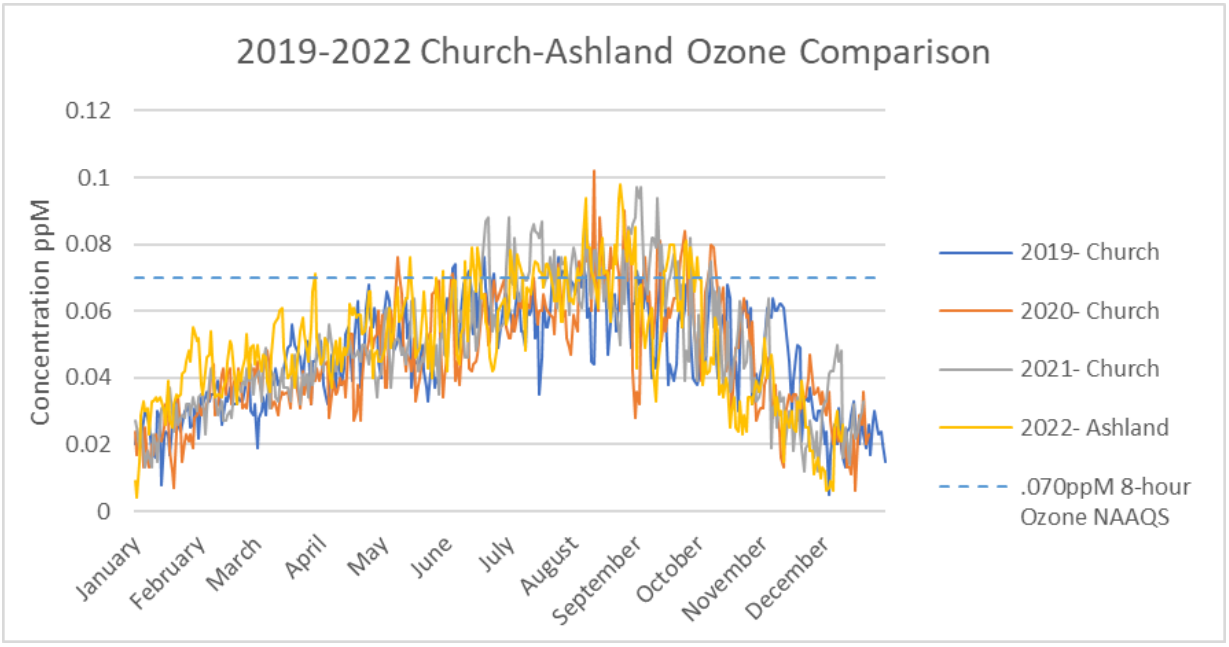
Equation from Section 4.1 of the Ambient Air Monitoring Network Assessment Guidance

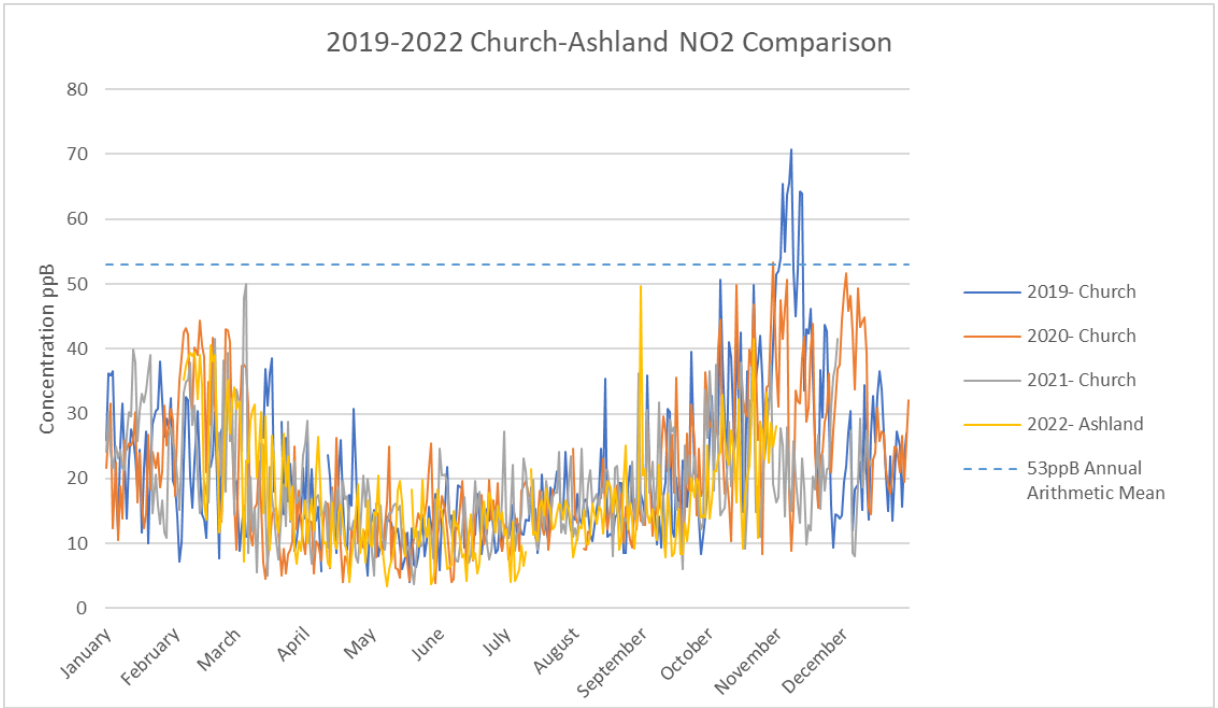
$$\overline{X} + \frac{t * s}{\sqrt{n}} < 0.8 * NAAQS$$

Attachment 4
North Church Street/ West Ashland Avenue Comparative Data Analysis*



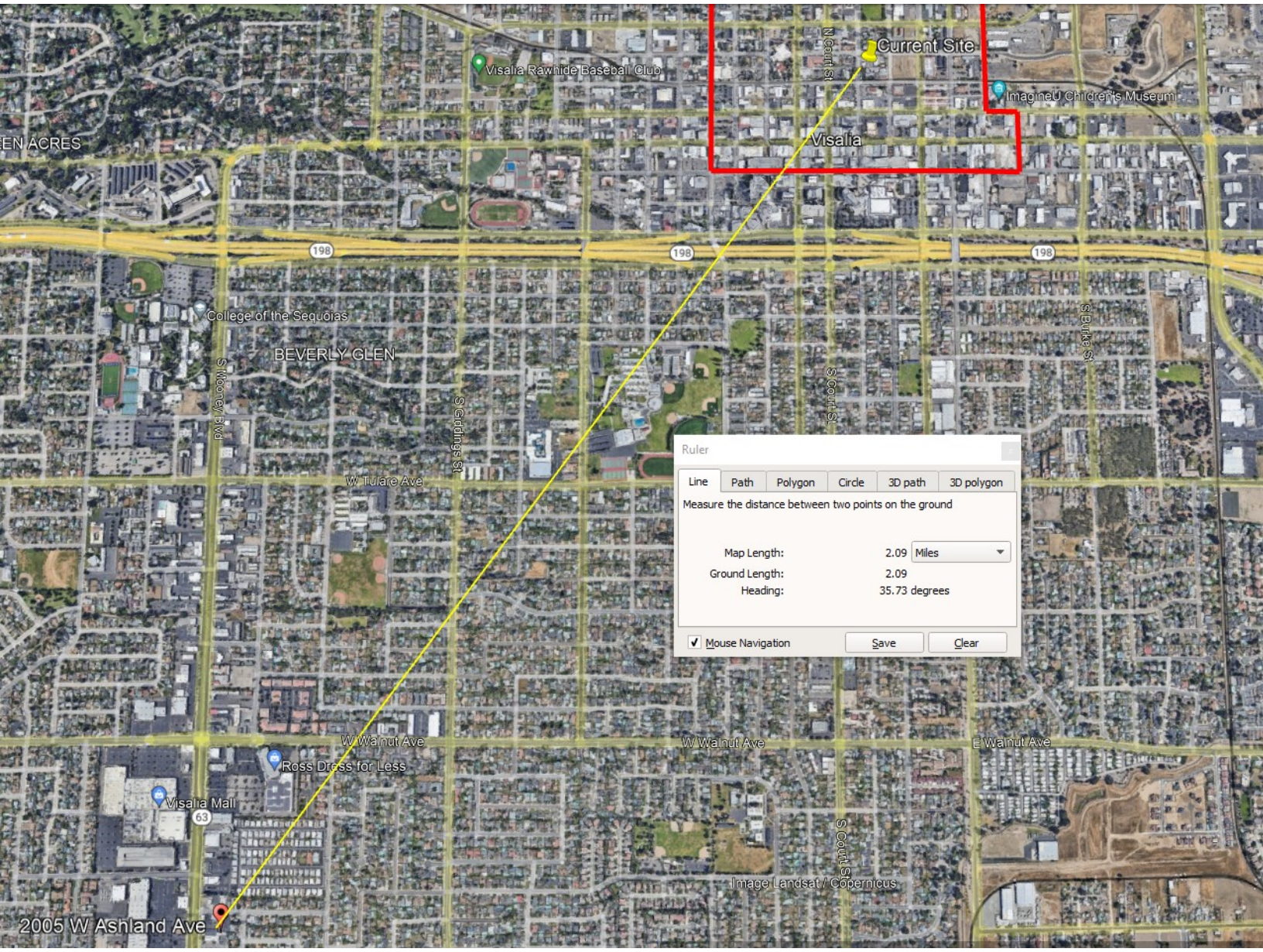






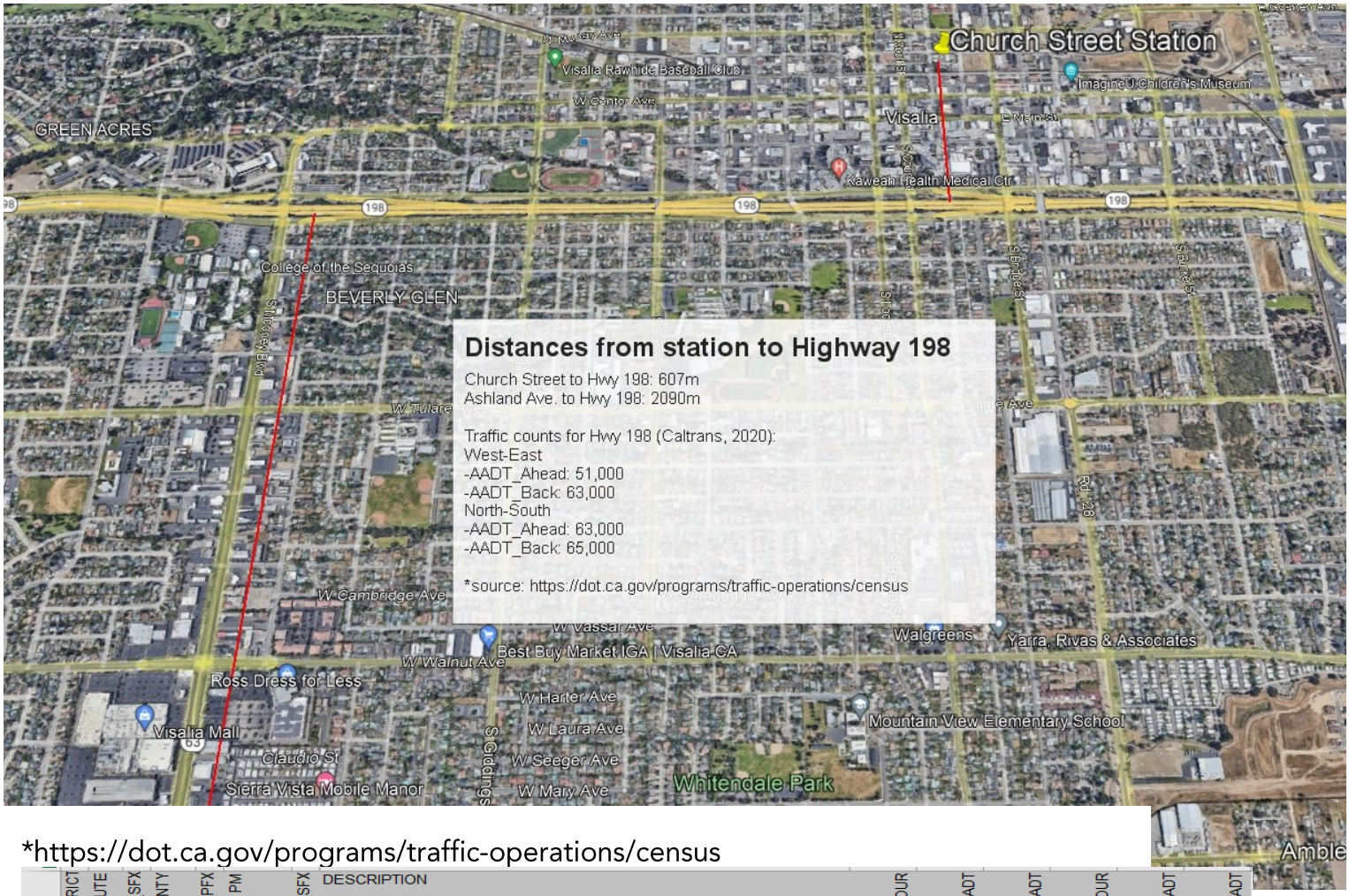
*Source: *https://www.epa.gov/outdoor-air-quality-data/download-daily-data*, updated 02/09/2023

Figure 1



Distance from 310 North Church Street to proposed relocation site at 2005 West Ashland Avenue (approximately 3,363 meters/ 2.09 miles).

Figure 2



*https://dot.ca.gov/programs/traffic-operations/census

	DISTRICT	ROUTE	RTE_SFX	COUNTY	PM_PFX	PM	PM_SFX	DESCRIPTION	BACK_PEAK_HOUR	BACK_PEAK_MADT	BACK_AADT	AHEAD_PEAK_HOUR	AHEAD_PEAK_MADT	AHEAD_AADT
2770	06	063		TUL		6.010		CALDWELL AVE (AVE 280)	1950	20500	19400	2700	28500	27000
2773	06	063		TUL	L	7.970		VISALIA, NOBLE AVE/MINERAL KING BLVD. W JCT. RTE. 198	2700	29000	27500	1150	12200	11600
2774	06	063		TUL	L	8.916	L	MINERAL KING @ WILLIS				1150	13700	11700
2775	06	063		TUL	L	9.226	L	MINERAL KING @ COURT	1150	13700	11700			
2777	06	063		TUL		7.980	R	VISALIA, EAST JCT. RTE. 198	1200	13500	12800	1150	14200	11700
2785	06	063		TUL		8.681	L	VISALIA, LOCUST/PINE STS	990	9900	8400	900	9000	7700
2821	06	065		TUL		39.577		JCT. RTE. 198	1100	9300	8600			
3902	06	099		TUL		30.578		PROSPERITY AVE	5400	65000	59000	5000	62000	55000
3906	06	099		TUL		36.411		CALDWELL AVE (AVE 280)	5800	68000	64000	6000	73000	64000
3909	06	099		TUL	R	38.714		VISALIA, JCT RTE 198	6000	73000	64000	5700	69000	61000
3910	06	099		TUL	R	38.750		JCT. RTE. 198 EAST	5700	69000	61000	5000	62000	54000
3911	06	099		TUL	R	38.980		JCT. RTE. 198 W	5000	62000	54000	4750	58000	51000
5959	06	198		TUL	R	8.753		VISALIA, JCT. RTE. 63 SOUTH	7000	76000	65000	6300	73000	63000
5960	06	198		TUL	R	9.967		VISALIA, JCT. RTE. 63 NORTH	6300	73000	63000	5100	62000	51000
5999	06	201		TUL	L	13.980		JCT. RTE. 63	210	1250	1150	600	5600	5400
6181	06	216		TUL	R	0.000		VISALIA, JCT. RTE. 198				1950	19700	18100
6183	06	216		TUL	R	0.488		VISALIA, GOSHEN AVE	1550	16300	14000	1400	14800	12700
6193	06	216		TUL		19.245		JCT. RTE. 198	160	1550	1200			
6321	06	245		TUL		0.000		JCT. RTE. 198				380	4100	3400

Figure 3

Approximate distances from roadways, vegetation in relation to Ashland Avenue monitoring station

Figure 4

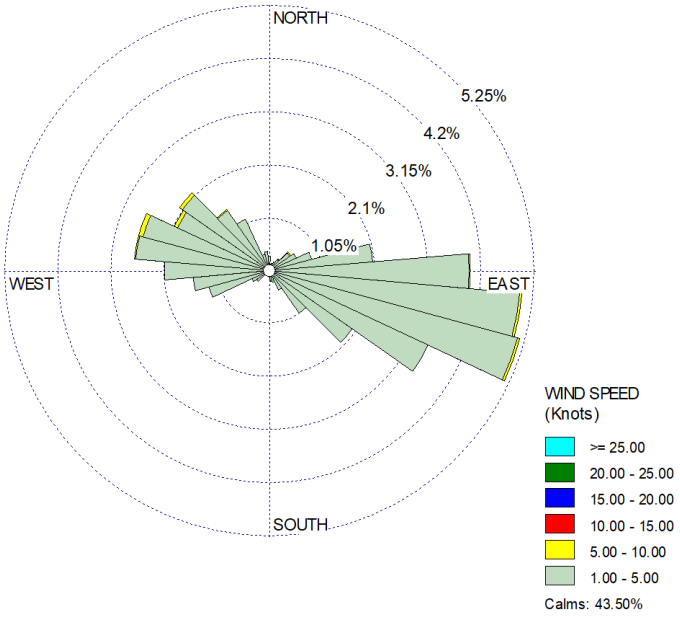
Dist	Rte	Rte Suffix	CO	Post Mile Prefix	Post Mile	Post Mile Suffix	Description	Back Peak Hour	Back Peak Month	Back AADT	Ahead Peak Hour	Ahead Peak Month	Ahead AADT
06	063		TUL		5.011		PARK AVENUE (AVENUE 272)	2200	24100	22900	2150	23800	22600
06	063		TUL		6.010		CALDWELL AVENUE (AVENUE 280)	2150	23800	22600	3000	33000	31500
06	063		TUL		6.990		VISALIA, WALNUT AVENUE (AVENUE 288)	2750	30500	29000	2450	27500	26000
06	063		TUL		7.490		VISALIA, TULARE AVENUE (AVENUE 292)	2450	27500	26000	2950	34000	33000

Figure 5

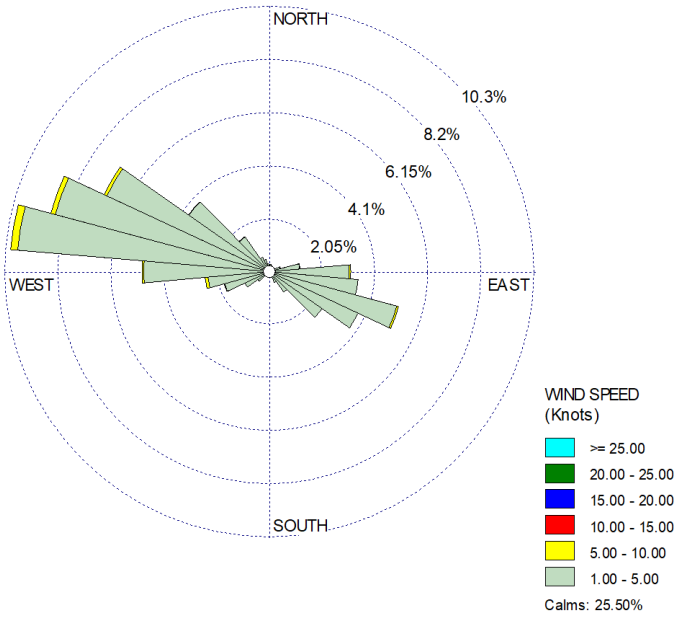
Roadway ave. daily traffic vehicles per day	O_3 and Oxides of N Neighborhood & Urban [1]	O_3 and Oxides of N Neighborhood. & Urban [1& 2]	CO Neighborhood
≤ 1,000	10	10	
10,000	10	20	
≤ 10,000			10
15,000	20	30	25
20,000	30	40	45
30,000			80
40,000	50	60	115
50,000			135
≥ 60,000			150
70,000	100	100	
≥110,000	250	250	

[1] Distance from the edge of the nearest traffic lane. The distance for intermediate traffic counts should be interpolated from the table values based on the actual traffic count.
[2] Applicable for ozone monitors whose placement has not already been approved as of December 18, 2006.

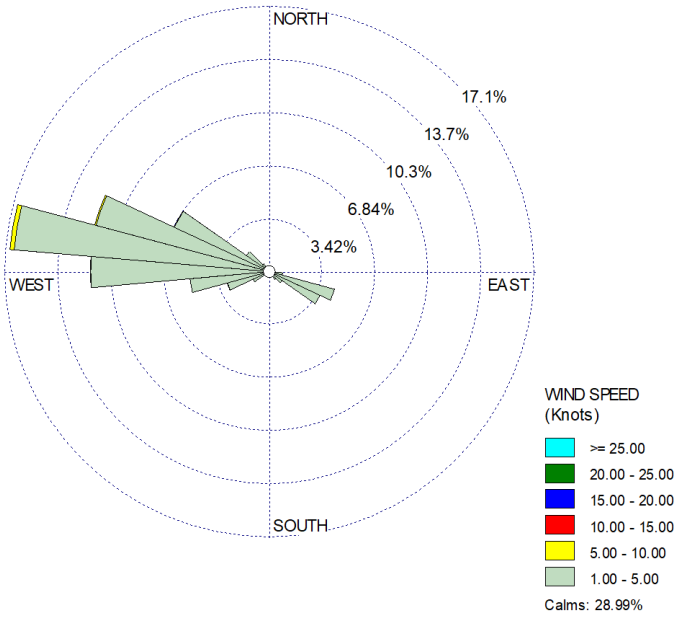
Figure 6- Wind Roses Based on Measurements at Visalia – N Church Street Monitoring Site during 2020-2021. Data available through December 15, 2021 with site relocated in January 2022.



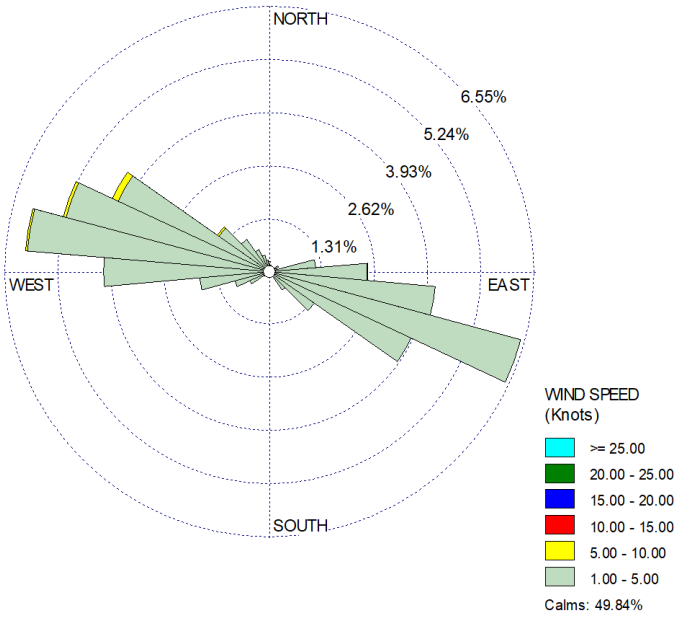
January, February, December during 2020-2021



March – May during 2020-2021

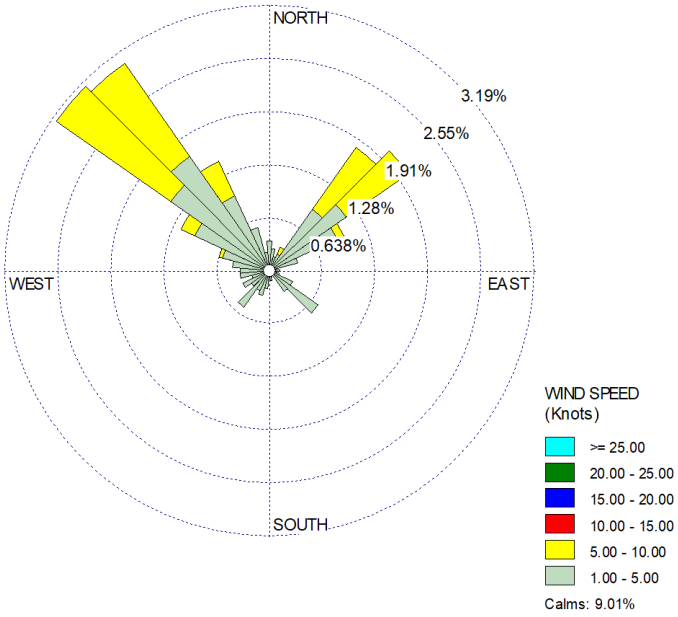


June – August during 2020-2021

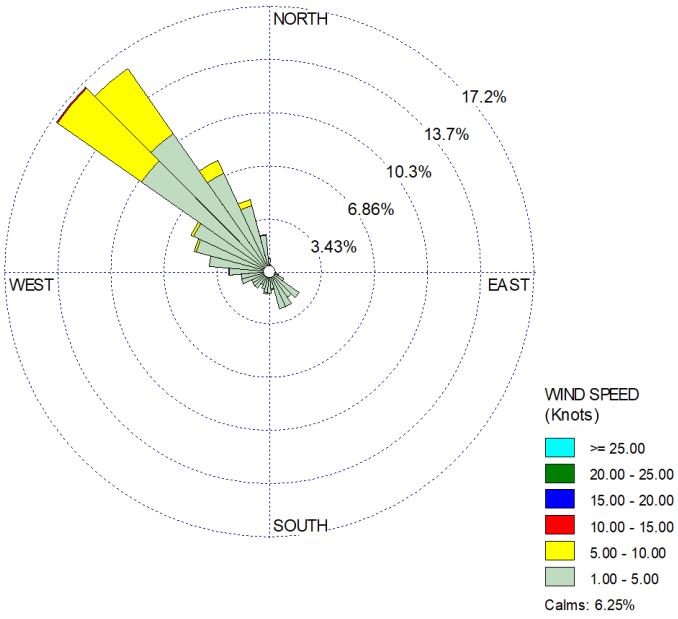


September – November during 2020-2021

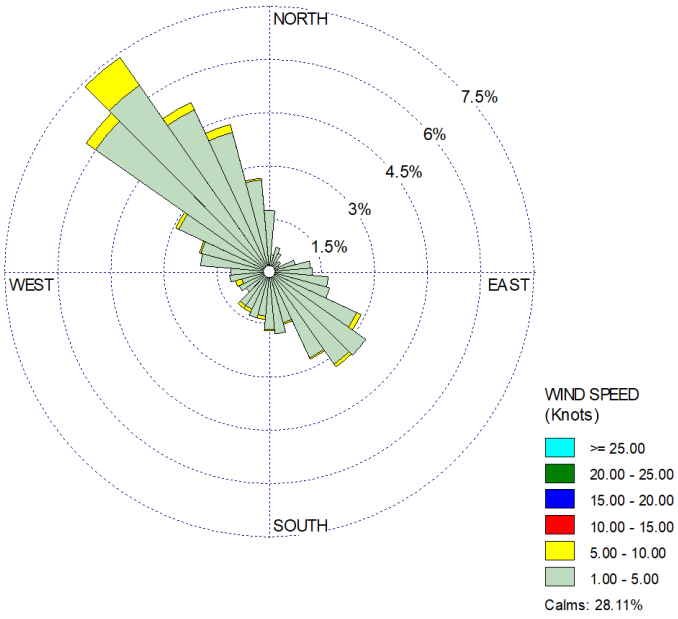
Figure 7- Wind Roses Based on Measurements at Visalia – W Ashland Avenue Monitoring Site during 2022. Data was available from May 3, 2022 through December 13, 2022.



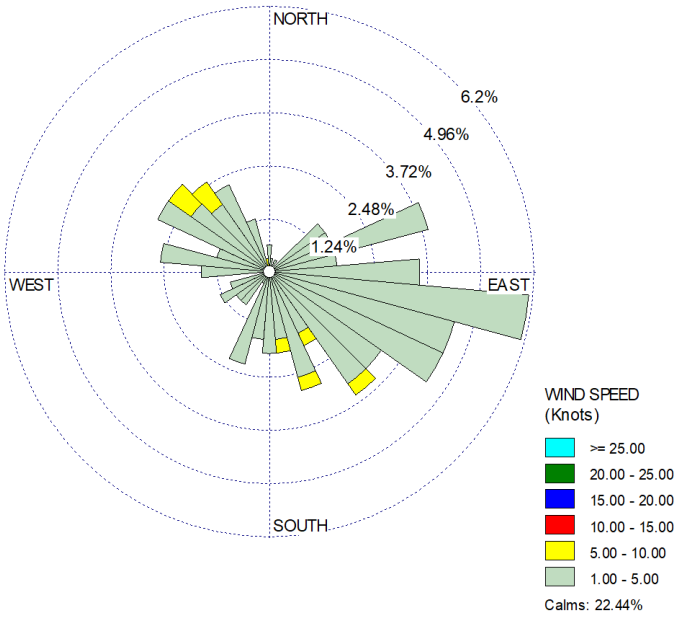
May 3-31, 2022



June – August during 2022



September – November during 2022



December 1-13, 2022

Figure 8

2020 Fire Map

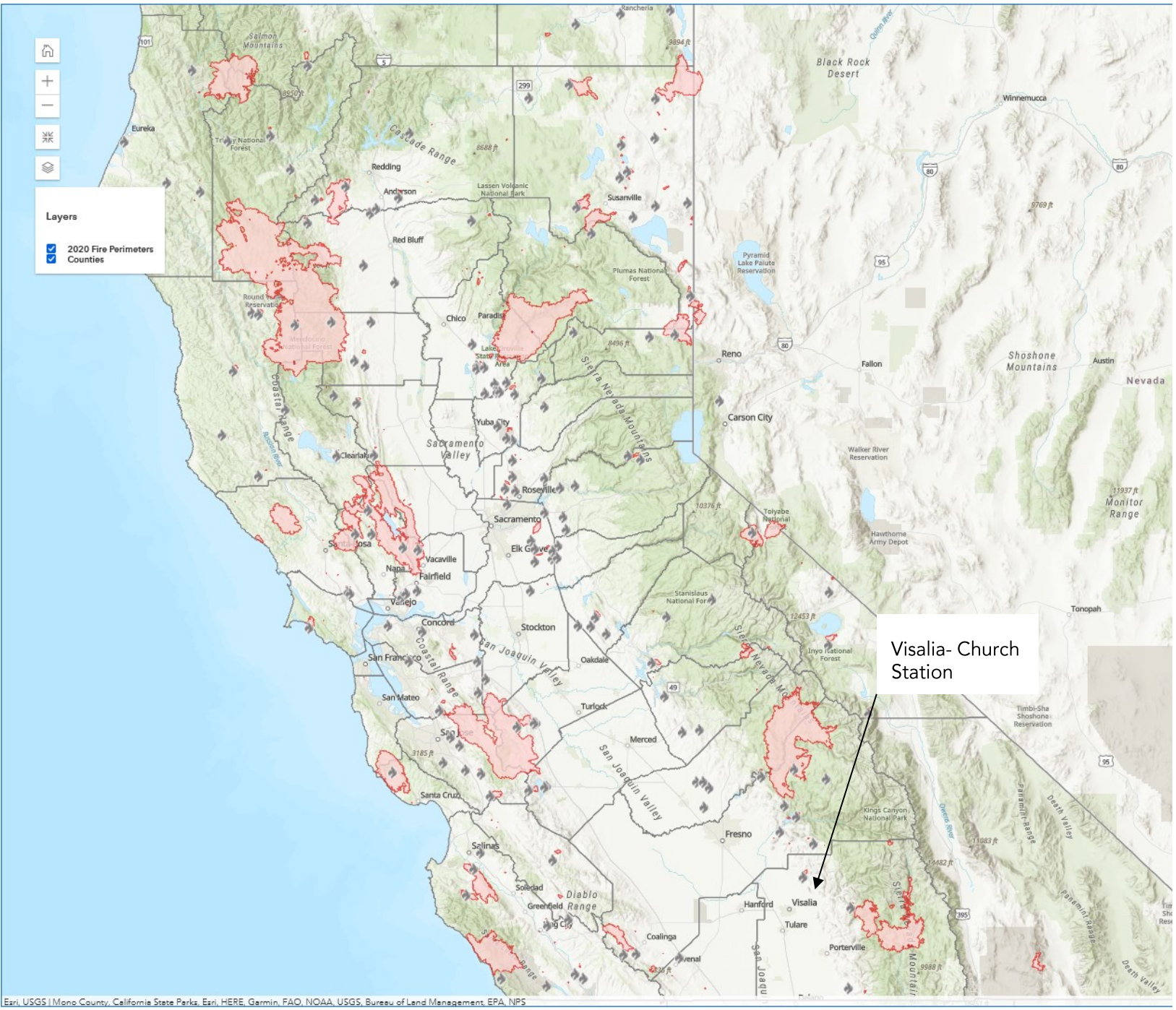


Figure 9

2021 Fire Map

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

April 11, 2023

Kathleen Gill
Chief, Air Quality Surveillance Branch
California Air Resources Board
4001 Iowa Avenue
P.O. Box 550099
Riverside, California 92507

Dear Kathleen Gill:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board (CARB) relocation of the O_3, $PM_{2.5}$, PM_{10}, and NO_2 State/Local Air Monitoring Station (SLAMS) monitors from the Visalia – Church St site (Air Quality System (AQS) Site ID: 06-107-2002) to the Visalia – West Ashland Avenue site (AQS ID: 06-107-2003). On March 7, 2023, CARB sent a letter to the EPA with a request for EPA approval of this network change. In this letter, CARB explained the need to relocate the Visalia – Church St monitoring site due to logistics beyond CARB's control (i.e., the building owner intends to expand into the leased space). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors.

The Visalia – Church St NO_2 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 similar sources (as discussed below), 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 monitor discontinuation under 40 CFR 58.14(c)(1) through (c)(5) are satisfied. EPA reviewed the NO_2 data against criteria in 40 CFR 58.14(c)(1). According to certified data from calendar years 2017-2021 in 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 at the site. Preliminary NO_2 data available from calendar year 2022 were consistent with the historical trend and continued to show low concentrations. This monitor is not required to meet 40 CFR part 58 Appendix D area-wide minimum monitoring or near-road monitoring requirements.

The Visalia – Church St O_3, $PM_{2.5}$, PM_{10} 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 Visalia – Church St site was located at 310 N Church St, Visalia, CA 93291. The relocation site, Visalia – West Ashland Avenue, is located at 2005 W Ashland Ave, Suite G, Visalia, CA 93277, approximately 3.4 kilometers southwest 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 residential and commercial land use. The original and proposed relocation site are expected to measure similar O_3, $PM_{2.5}$, PM_{10}, concentrations from similar sources due to the consistency in land use and proximity to sources. This relocation will not prevent CARB from meeting 40 CFR part 58, Appendix D requirements.

In addition, CARB provided data for O_3, $PM_{2.5}$, PM_{10} and NO_2 at Visalia – Church St from January 1, 2019 through mid-December, 2021 and at Visalia – West Ashland Avenue from 2022. The results of this monitoring were consistent with the expectation of similar concentrations from similar sources. CARB also provided wind roses of data collected at Visalia – Church St from January 2020 through December 15, 2021 and Visalia – West Ashland Avenue from May 3, 2022 through December 13, 2022, showing similar wind speeds and direction between the two sites. The primary wind direction at Visalia - Church St was west during spring, summer, and fall and east during winter. The primary wind direction at Visalia – West Ashland Avenue was northwest during spring, summer and fall and southeast during winter.

Based on the assessment of the scale of representation and monitoring data at both locations, EPA has determined that CARB'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 Visalia – Church St O_3, $PM_{2.5}$, PM_{10}, and NO_2 SLAMS monitors to the proposed site, Visalia – West Ashland Avenue. 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 you have any questions, please feel free to contact me at (415) 972-3134 or Julia Carlstad at (415) 947-4107.

Sincerely,

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

cc (via email): Jon Klassen, San Joaquin Valley Air Pollution Control District
Chay Thao, San Joaquin Valley Air Pollution Control District

Manisha Singh, CARB
Melissa Neiderreiter, CARB
Sylvia Vanderspek, CARB
Adolfo Garcia, CARB
Reggie Smith, CARB
Alicia Adams, CARB
Jin Xu, CARB
Kyle Ochoa, CARB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

December 19, 2022

Bret Banks
Executive Director
Antelope Valley Air Quality Management District
2551 West Avenue H
Lancaster, California 93536

Dear Director Banks:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Antelope Valley Air Quality Management District's (AVAQMD) relocation of the O_3, $PM_{2.5}$, PM_{10}, and NO_2 State/Local Air Monitoring Station (SLAMS) monitors at the Lancaster-Division Street (Air Quality System (AQS) ID: 06-037-9033) site. On November 16, 2022, AVAQMD emailed a letter dated November 14, 2022 and a supporting document to EPA with a request for EPA approval of this network change. In this letter, AVAQMD explained the need to relocate the Lancaster-Division Street monitoring site due to logistics beyond AVAQMD's control (i.e., the lease would not be renewed by the property manager and AVAQMD must vacate the property no later than December 2022). AVAQMD notes that they chose a relocation site that would ensure AVAQMD control and access over the property to avoid future moves (the relocation site is located at AVAQMD's headquarters). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors. The Lancaster-Division Street O_3, $PM_{2.5}$, PM_{10}, and NO_2 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 Lancaster-Division Street site was located at 43301 Division St, Lancaster, CA 93535. The relocation site, Lancaster Fairgrounds, is located at 2551 W. Avenue H, Lancaster, CA 93536, approximately eight kilometers northwest of the original site location. As described by AVAQMD, both the original and proposed sites scale of representativeness are defined as neighborhood scale for O_3, $PM_{2.5}$, PM_{10}, and NO_2, meaning pollutant concentrations are expected to be reasonably similar within some extended area of the city that has relatively uniform land use in the 0.5 to 4.0 kilometers spatial range. While the proposed site is further than four kilometers from the original site, both sites are in an area characterized by residential and commercial land use as well as undeveloped land. The sources that influence O_3, $PM_{2.5}$, PM_{10}, and NO_2 concentrations at the Lancaster-Division Street site are anticipated to be similar to the sources that would influence the concentrations at the Lancaster Fairgrounds site.

In addition, AVAQMD conducted a parallel monitoring study for O_3, $PM_{2.5}$, and PM_{10}. The O_3 study period occurred between January 1, 2022, and June 15, 2022, and the $PM_{2.5}$ and PM_{10} study period occurred between January 1, 2022 and September 16, 2022. However, the $PM_{2.5}$ and PM_{10} data collected

between January 1, 2022 and June 30, 2022 were not evaluated due to instrumentation issues, therefore only the data collected between June 30, 2022 and September 16, 2022 were considered. A parallel monitoring study for NO_2 was not conducted. The results of the parallel monitoring were consistent with the expectation of similar concentrations from similar sources. AVAQMD also provided wind roses of data collected between January 1, 2022 and August 2, 2022 at both sites. The wind direction was similar at both sites with a primary wind direction of west to southwest.

Based on the assessment of proximity, scale of representation, anticipated concentrations and parallel monitoring data, EPA has determined that AVAQMD's request meets the requirement that the replacement site is at a nearby location with the same scale of representation and approves AVAQMD's relocation of the Lancaster-Division Street site O_3, $PM_{2.5}$, PM_{10}, and NO_2 SLAMS monitors to the proposed site, Lancaster Fairgrounds. 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 include your request, this letter, and the relevant monitor and site information in the next California Air Resources Board (CARB) Annual Monitoring Network Plan.

If there are any questions regarding this letter, please feel free to contact me at (415) 947-4134 or Sheila Tsai of my staff at 415-972-3328.

Sincerely,

Gwen Yoshimura
Manager, Air Quality Analysis Office

cc (via email): Joel Craig, Consultant to AVAQMD
Manisha Singh, CARB
Melissa Niederreiter, CARB
Greg Gilani, CARB
Kathleen Gill, CARB
Sylvia Vanderspek, CARB
Jin Xu, CARB
Adolfo Garcia, CARB

CALIFORNIA
AIR RESOURCES BOARD

Gavin Newsom, Governor
Jared Blumenfeld, CalEPA Secretary
Liane M. Randolph, Chair

February 28, 2022

Ms. Gwen Yoshimura
U.S. Environmental Protection Agency, Region 9
Air Quality Analysis Office (AIR-4-2)
75 Hawthorne Street
San Francisco, California 94105
Yoshimura.Gwen@epa.gov

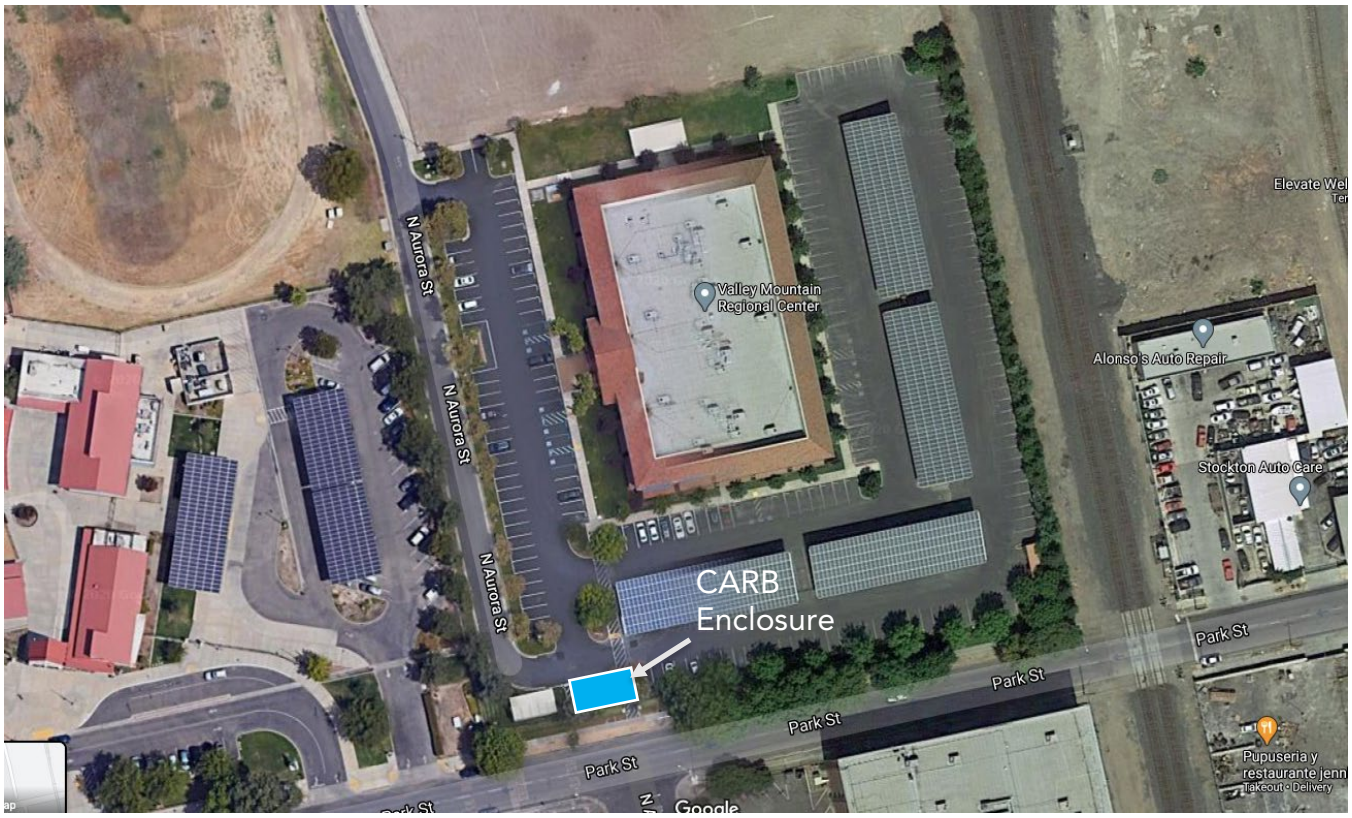
Dear Ms. Yoshimura:

The California Air Resources Board (CARB) is requesting approval from U.S. EPA to close down the ambient air monitoring station at Stockton - Hazelton (AQS # ***060771002)*** and relocate to Stockton - University Park (AQS # ***060771003)*** based on 40CFR Part 58.14 (6): *A SLAMS monitor not eligible for removal under any of the criteria in paragraphs (c)(1) through (c)(5) of this section 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.*

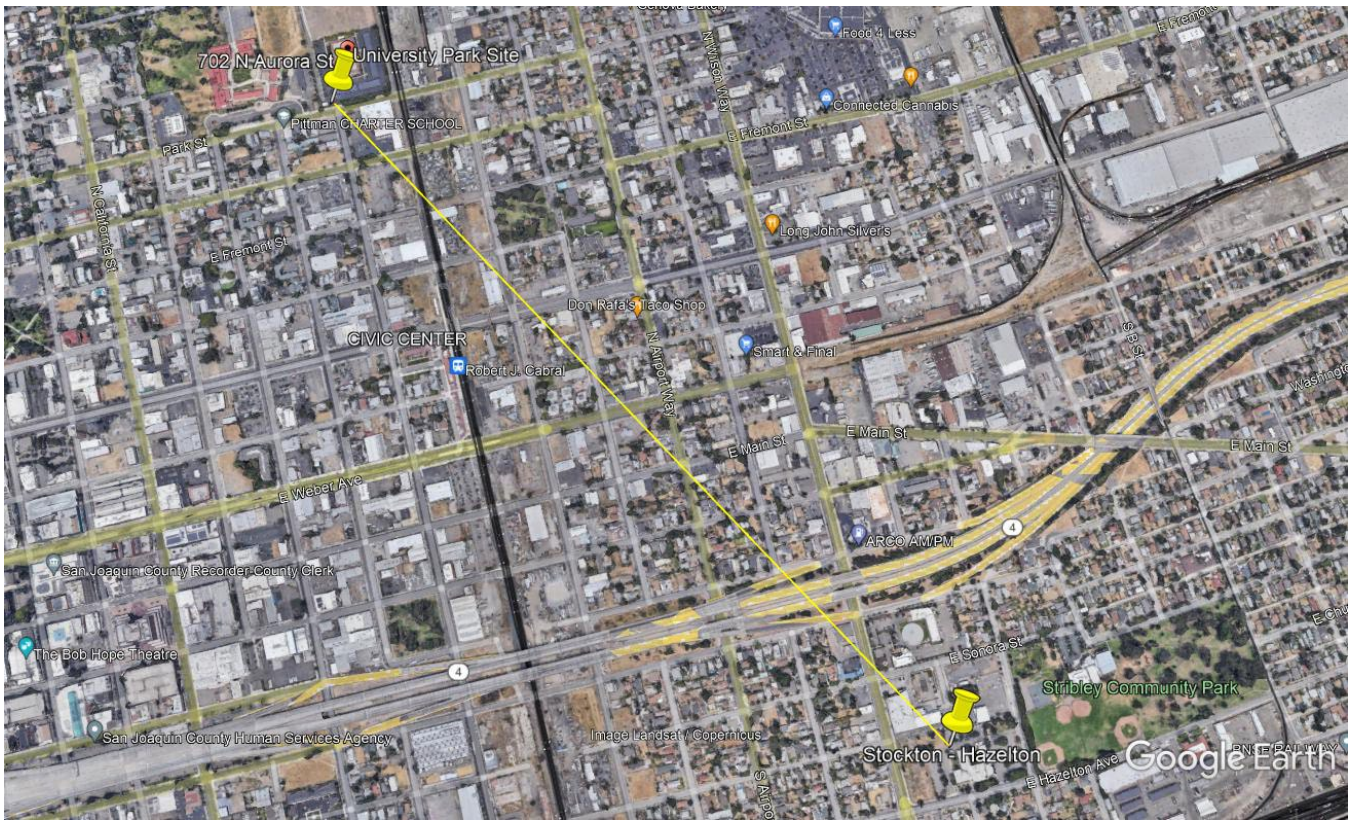
CARB's Monitoring and Laboratory Division (MLD) was notified early January 2019, that the property where the Stockton - Hazelton station resided (1593 E Hazelton Street) was scheduled for demolition/reconstruction by early August 2020. The Hazelton site property managers were unable to provide an alternative location elsewhere on the property. MLD staff reached out to CARB's Air Quality Planning and Science Division (AQPSD) for suitable alternative monitoring areas to establish a new monitoring station. AQPSD generated a map with five (5) potential areas based on historical data - each area identified as priority one (1) through five (5). MLD thoroughly investigated the entire area surrounding the Hazelton monitoring station (more than 12 square miles of buildings and open land) with added focus to the five priority areas supplied by AQPSD. CARB also met with local community groups/members for input on site relocation. Following multiple, extensive on-site searches, including evaluation of 30 sites recommended by community members, MLD located a suitable site within AQPSD's priority area #2, one mile northwest of the Hazelton monitoring station: University Park at 702 N Aurora Street. The University Park location met siting criteria and Park property management were willing to negotiate a long-term lease with the State of California. In the meantime, Hazelton demolition was delayed until November 2021. Per Hazelton property management mandate, the Hazelton monitoring station was closed down and all equipment removed by first week of November 2021.

The priority map that AQPSD generated is displayed below. The five (5) circles represent priority areas for the new monitoring station; labeled 1 - 5. The small yellow pin directly to the southeast of circle #2 indicates the location of the previous Stockton - Hazelton monitoring station.

After finalizing the Stockton - University Park lease negotiation and completing required site Improvements (i.e. enclosure installation, power installation, pad preparation, staircase/platform installation, fencing, monitoring equipment installation, etc.), the Stockton - University Park monitoring station was configured and online beginning the first week of November 2021. A Google earth map below displays the location of the new Stockton - University Park 702 N. Aurora Street location; south of North Aurora Street, directly north of Park Street. This site is contained within the University Park property, just to the east of the Pittman Elementary School (red roof buildings and solar parking area on the left side of the picture).



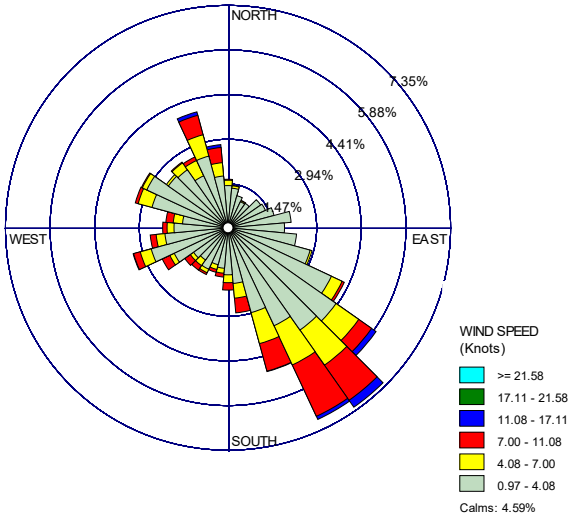
The map below displays the relationship of the Stockton - Hazelton site (lower right yellow pin) to the new Stockton - University Park site (upper left yellow pin). The map's yellow line connecting both pins represents a 1.0 mile distance.



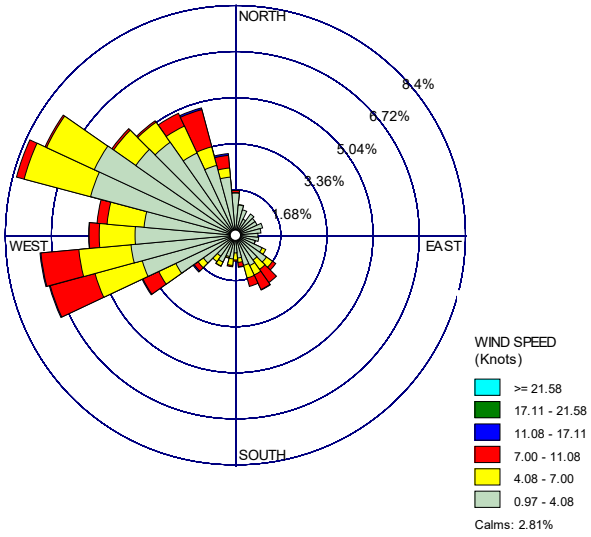
Seasonal wind speeds and direction are expected to remain similarly consistent at both sites. All parameters (and methods) previously monitored at the Hazelton site are being monitored at the University Park site. Due to mandated Hazelton closure and University startup timelines, no parallel monitoring was possible. In addition, as the Hazelton site was surrounded by multiple months of demolition and construction activities, data comparisons between Hazelton and University Park sites would most likely have been heavily impacted by the activities directly surrounding the Hazelton station.

The following two pages display Stockton - Hazelton wind roses for the 2017 - 2019 time period. These roses are believed representative to the new University Park monitoring station as well:

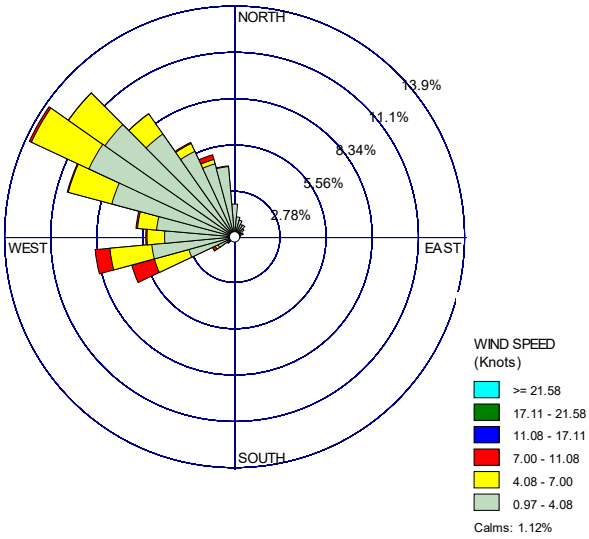
Wind Roses Based on Measurements at Stockton – Hazelton Monitoring Site during 2017-2019



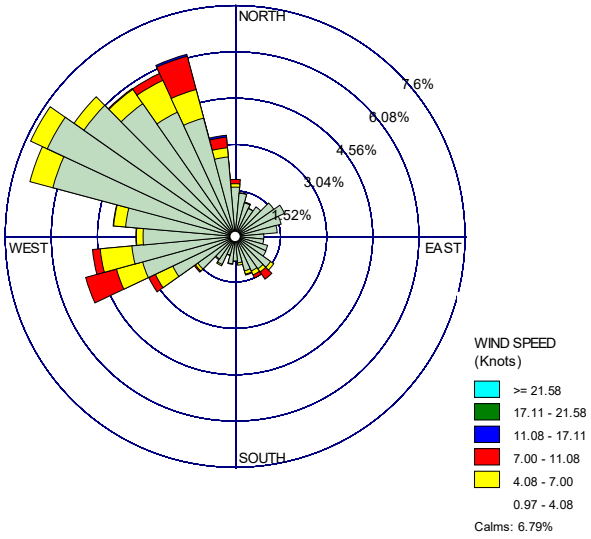
January, February, December, 2017-2019



March – May, 2017-2019



June – August, 2017-2019



The Stockton - University Park site is representative of the exposure of sensitive groups, meets the siting criteria for the air monitoring network (SLAMS and Toxics), and has similar spatial and land-use patterns as the previous Stockton - Hazelton site. As the new University Park site is located 1.0 mile to the northwest of the previous Hazelton site, the University Park site is expected to measure the impact of similar sources and maintain a historical trend without introducing significant bias.

If you have any questions or require additional information, please contact Mr. Mac McDougall at (916)327-4720 or via email at mac.mcdougall@arb.ca.gov.

Sincerely,

Kathleen Gill

Kathleen Gill, Chief
Air Quality Surveillance Branch
Monitoring and Laboratory Division

cc: See next page

cc:

Randall Chang, U.S. EPA, Region 9, Air and Radiation Division

Jon Klassen, Director, San Joaquin Unified Air Pollution Control District

Sylvia Vanderspek, Chief, Air Quality Planning Branch, CARB

Manisha Singh, Chief, Quality Management Branch, CARB

Jin Xu, Air Resources Supervisor, AQPB, CARB

Mac McDougall, Air Resources Supervisor, AQSB, CARB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

July 20, 2022

Kathleen Gill
Chief, Air Quality Surveillance Branch
Monitoring and Laboratory Division
California Air Resources Board
1927 13th Street
Sacramento, California 95811

Dear Kathleen Gill:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board's (CARB) relocation of the $PM_{2.5}$, PM_{10}, O_3, NO_2, and CO State/Local Air Monitoring Station (SLAMS) monitors from the Stockton - Hazelton site (Air Quality System (AQS) Site ID: 06-077-1002) to the Stockton – University Park site (AQS ID: 06-077-1003). On February 28, 2022, CARB sent a letter to EPA with a request for EPA approval of this network change. In this letter, CARB explained the need to relocate the Stockton – Hazelton monitoring site due to logistics beyond CARB's control (i.e., the property where the site was located was scheduled for demolition/reconstruction, and the property owners were unable to provide an alternate location) and noted that they solicited input from local community groups/members for this proposed relocation site selection. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors.

The Stockton NO_2 and CO monitor relocations were 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 similar sources (as discussed below), 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 monitor discontinuation under 40 CFR 58.14(c)(1) through (c)(5) are satisfied. EPA reviewed the NO_2 and CO data against criteria in 40 CFR 58(c)(1). As the site stopped collecting data in early November 2021, EPA reviewed the most recently available complete calendar years of data. According to certified data from 2016-2020 in AQS, EPA determined that these monitors meet 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 at the site. NO_2 and CO data available from calendar year 2021 were consistent with the historical trend and continued to show low concentrations.

The Stockton $PM_{2.5}$, PM_{10}, and O_3 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 Stockton – Hazelton site was located at 1593 East Hazelton Street, Stockton, CA 95490. The relocation site, Stockton – University Park, is located at 702 North Aurora, Stockton, CA 95490, approximately one mile northwest of the original site location. As described in CARB's 2022 Annual Network Plan[1], 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 residential and commercial land use. The original and proposed relocation site are expected to measure similar $PM_{2.5}$, PM_{10}, O_3, NO_2, and CO concentrations from similar sources due to the consistency in land use and proximity to sources, similar wind speeds and direction. This relocation will not prevent CARB from meeting 40 CFR part 58, Appendix D requirements.

Based on the assessment of the scale of representation at both locations, EPA has determined that CARB'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 Stockton - Hazelton $PM_{2.5}$, PM_{10}, O_3, NO_2, and CO SLAMS monitors to the proposed site, Stockton – University Park. 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 you have any questions, please feel free to contact me at (415) 947-4134 or Dena Vallano of my staff at (415) 972-3134.

Sincerely,

Gwen Yoshimura, Manager
Air Quality Analysis Office
Air and Radiation Division

cc (via email): Manisha Singh, CARB
Melissa Niederreiter, CARB
Sylvia Vanderspek, CARB
Jin Xu, CARB
Eric McDougall, CARB
Jon Klassen, San Joaquin Valley Air Pollution Control District
Chay Thao, San Joaquin Valley Air Pollution Control District

[1] Available at https://ww2.arb.ca.gov/our-work/programs/ambient-air-monitoring-regulatory/annual-monitoring-network-report

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

February 3, 2023

Cody Gibbons
Air Quality Specialist
San Luis Obispo County Air Pollution Control District
3433 Roberto Court
San Luis Obispo, California 93401

Dear Air Quality Specialist Gibbons:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the San Luis Obispo County Air Pollution Control District (SLOCAPCD) relocation of the O_3 State/Local Air Monitoring Station (SLAMS) monitor from the Morro Bay site (Air Quality System (AQS) Site ID: 06-079-3001) to the Morro Bay – Kings Ave site (AQS ID: 06-079-3002). On January 4, 2023, SLOCAPCD sent a letter to EPA with a request for EPA approval of this network change. In this letter, SLOCAPCD explained the need to relocate the Morro Bay monitoring site due to logistics beyond SLOCAPCD's control (i.e., the property where the site was located was scheduled for expansion/reconstruction, and the property owners were unable to provide an alternate location). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors.

The Morro Bay O_3 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 similar sources (as discussed below), 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 monitor discontinuation under 40 CFR 58.14(c)(1) through (c)(5) are satisfied.

EPA reviewed the O_3 data against criteria in 40 CFR 58(c)(1). According to certified data from 2017-2021 in 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 at the site. Preliminary O_3 data available from calendar year 2022 were consistent with the historical trend and continued to show low concentrations.

The original Morro Bay site was located at 899 Morro Bay Blvd., Morro Bay, CA 93442. The relocation site, Morro Bay – Kings Ave, is located at 492 Kings Ave., Morro Bay, CA 93442 (35.361589, -120.836819), approximately one mile northwest of the original site location. As described in SLOCAPCD's letter, both sites have a regional scale of representation, meaning they are expected to have relatively uniform land use in the tens to hundreds of kilometers of spatial range. Both sites are in

an area characterized by predominantly residential land use. The original and proposed relocation site are expected to measure similar O_3, concentrations from similar sources due to the consistency in land use and proximity to sources, similar wind speeds, and similar wind direction. This relocation will not prevent SLOCAPCD from meeting 40 CFR part 58, Appendix D requirements.

Based on consideration of this information, EPA approves relocation of the Morro Bay site O_3 SLAMS monitor to the proposed site, Morro Bay – Kings Ave. 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 you have any questions, please feel free to contact me at (415) 947-4134 or Julia Carlstad of my staff at (415) 947-4107.

Sincerely,

Gwen Yoshimura
Manager, Air Quality Analysis Office

cc (via email): Kyle Vagadori, CARB

SACRAMENTO METROPOLITAN

AIR QUALITY
MANAGEMENT DISTRICT

December 20, 2022

Ms. Gwen Yoshimura
Air Quality Analysis Office
Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105-3901

Subject: Request Approval of the removal of speciated VOC measurements and reactive oxides of nitrogen from Folsom-Natoma Street (AQS ID: 06-067-0012) Ambient Air Monitoring Site and speciated VOC measurements from Elk Grove-Bruceville (AQS ID: 06-067-011) Ambient Air Monitoring Site

Dear Ms. Yoshimura:

On October 1, 2015 U.S EPA substantially revised the PAMS requirement in 40CFR part 58 Appendix D. As part of the revision, U.S EPA required state and local monitoring agencies to make PAMS measurements (including hourly averaged mixing height) at NCore sites in CBSAs with population of 1,000,000 or more. The revisions also required state monitoring agencies with moderate and above 8-hour ozone nonattainment areas and states in the Ozone Transport Region (OTR) to develop and implement an Enhanced Monitoring Plan (EMP) detailing enhanced ozone and ozone precursor monitoring activities to be performed to better understand area specific ozone issues.

As part of CARB's 2020 5-year Network Assessment Plan, (5-year Plan) Appendix A-1 of the EMP for ozone outlined Sacramento's future PAMs network. This included adding hourly VOC measurements to the NCore site (Del Paso Manor 06-067-006), adding a ceilometer at the Elk Grove site (06-067-011)[1] and discontinuing speciated VOC measurement at Elk Grove site and the Folsom site (06-067-012). In addition, discontinuing reactive oxides of nitrogen (NOY) at Folsom site. All other PAMS parameters will continue to be monitored.

The District is currently working to expand the Del Paso Manor building to accommodate these new requirements and is in the construction development phase to renovate the Del Paso Manor site structure. Due to the timing of the construction and existing problems with VOC Xontech 910A sampler, VOC measurements has temporarily ceased collection

[1] Waiver obtained from U.S EPA - 20171030_SacMetro_2017ANP_letterAndEnclosure.pdf

starting in summer 2021, but will restart when the station construction is complete, which is expected by summer 2023. The Folsom and Bruceville sites have also stopped collecting speciated VOCs since it is no longer required under the new PAMS monitoring requirements effective July 1, 2021.

This letter is to document and formally request approval from the United States Environmental Protection Agency (EPA) to:

- Shut down the speciated VOC monitoring (Xontech 910A/912) and reactive oxides of nitrogen (NOY) monitoring (TEI 42I-Y) from Folsom-Natoma Street ambient air monitoring site.

- Shut down speciated VOC monitoring (Xontech 910A/912) from Elk Grove-Bruceville ambient air monitoring site.

This request follows the requirements under Title 40 of the Code of Federal Regulations (CFR) Part 58 Ambient Air Quality Surveillance, Subpart B and follows CARB's submittal of the PAMS EMP. Discontinuation of these monitor will free up resources and allow SMAQMD to focus on more critical monitoring activities.

Sincerely,

Mark S. Loutzenhiser

Mark Loutzenhiser
Division Manager
Program Coordination Division

CC:

Shaye Hong, USEPA
Kyle Vagadori, CARB
Peishi (Bob) Gu, CARB Planning
Janice Lam Snyder, SMAQMD
David Yang, SMAQMD
Levi Ford, SMAQMD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street

March 20, 2023

Mark Loutzenhiser
Division Manager, Program Coordination Division
Sacramento Metropolitan Air Quality Management District
777 12th Street, 3rd Floor
Sacramento, California 95814-1908

Dear Manager Loutzenhiser,

This letter transmits the U.S Environmental Protection Agency's (EPA's) formal approval of Sacramento Metropolitan Air Quality Management District's (SMAQMD's) December 20, 2022 letter requesting changes to its Photochemical Assessment Monitoring Stations (PAMS) network. Specifically, the EPA approves the discontinuation of PAMS speciated volatile organic compound (VOC) parameters at the Folsom Natoma (Air Quality System (AQS) ID: 06-067-0012) and Elk Grove Bruceville (AQS ID: 06-067-0011) monitoring sites, as well as reactive oxides of nitrogen (NO_y) parameters at the Folsom Natoma monitoring site. As part of the California Air Resources Board's (CARB's) 2020 5-year Network Assessment Plan, Appendix A-1 of the Enhanced Monitoring Plan, CARB supported discontinuation of VOC and NO_y monitoring at the Folsom Natoma and Elk Grove Bruceville sites to offset the demands at the Del Paso Manor (AQS ID: 06-067-0006) NCore site and save staff time and resources. EPA acknowledges that the PAMS requirements were revised when EPA promulgated the 2015 8-hour Ozone National Ambient Air Quality Standards on October 1, 2015, and we support SMAQMD's efforts to assess which PAMS measurements are currently necessary and appropriate.

SMAQMD stated in their letter that they are currently working to expand the Del Paso Manor building to accommodate the new PAMS requirements and is in the development phase to renovate the Del Paso Manor site structure. The Del Paso Manor site will satisfy NCore and PAMS requirements specified in 40 CFR 58 Appendix D. Since NO_y monitoring is required for all NCore sites, EPA encourages SMAQMD to continue NO_y operation at the Folsom Natoma monitoring site until Del Paso Manor NO_y is fully operational to maintain a continuous data record.

If you have any questions, please feel free to contact me at (415) 972-3134 or Shaye Hong at (415) 947-4104.

Sincerely,

Dena Vallano
Manager, Monitoring and Analysis Section

cc (via email): Kyle Vagadori, CARB
Peishi (Bob) Gu, CARB
Janice Lam Snyder, SMAQMD
David Yang, SMAQMD
Levi Ford, SMAQMD

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

June 16, 2022

Molly Pearson
Planning Division Manager
Santa Barbara County Air Pollution Control District
260 North San Antonio Road, Suite A
Santa Barbara, California 93110

Dear Manager Pearson:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Santa Barbara County Air Pollution Control District's (SBCAPCD) new State/Local Air Monitoring Station (SLAMS) monitors at the new Santa Maria Lakeview site (Air Quality System (AQS) Site ID: 06-083-1009). A request for EPA approval of this network change was submitted to EPA on March 1, 2022. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for modification to their monitoring network. SLAMS monitors must meet all applicable 40 CFR 58 requirements, including the quality assurance requirements, network design criteria, and siting requirements specified in appendices A, C, D, and E. EPA reviewed SBCAPCD's request and concluded that the applicable criteria contained in 40 CFR 58 are met; EPA therefore approves the new O_3, $PM_{2.5}$, and PM_{10} SLAMS monitors at the Santa Maria Lakeview site. Please include this letter and the relevant monitor and site information in the next SBCAPCD annual monitoring network plan.

If you have any questions, please feel free to contact me at (415) 947-4134 or Sheila Tsai of my staff at (415) 972-3328.

Sincerely,

Gwen Yoshimura
Manager, Air Quality Analysis Office

cc (via email): Manisha Singh, California Air Resources Board (CARB)
Andrea McStocker, CARB
Melissa Niederreiter, CARB
Kathleen Gill, CARB
Adolfo Garcia, CARB
Sylvia Vanderspek, CARB
Jin Xu, CARB

CALIFORNIA
AIR RESOURCES BOARD

Gavin Newsom, Governor
Yana Garcia, CalEPA Secretary
Liane M. Randolph, Chair

September 9, 2022

Ms. Gwen Yoshimura
U.S. Environmental Protection Agency, Region 9
Air Quality Analysis Office (AIR-4-2)
75 Hawthorne Street
San Francisco, California 94105
Yoshimura.Gwen@epa.gov

Dear Ms. Yoshimura:

The California Air Resources Board (CARB) is requesting approval from U.S. EPA to discontinue Trace Carbon Monoxide (Trace CO) monitoring at four (4) California Air Resources Board (CARB) locations: Chico – East (AQS# 060070008), Stockton – University Park (AQS# 060771003), Modesto – 14th Street (AQS# 060990005) and Calexico - Ethel (AQS# 060250005).

As stated in CARB's 2022 Annual Network Plan (ANP), Section 5C: Carbon Monoxide (CO), "The only federal requirement for CO monitoring is for near-road CO monitoring. In CBSAs with a population of one million or more, one CO monitor is required to operate collocated with one near-road NO_2 monitor. If a CBSA has more than one near-road NO_2 monitoring site, a CO monitor is only required at one near-road site in the CBSA. The CO monitor was required to be operational by January 1, 2015 in CBSAs with a population more than 2.5 million, and by January 1, 2017 for all other CBSAs. Additionally, the Regional Administrators, jointly with states, may require additional CO monitoring in other areas where data or other indicators suggest that concentrations may approach or exceed the NAAQS. 40 CFR Part 58 Appendix D 4.2.2 (3) Carbon Monoxide (CO) Design Criteria states "*The Regional Administrator and the responsible State or local air monitoring agency shall work together to design and maintain the most appropriate CO network to address the data needs for an area and include all monitors under this provision in the annual monitoring network plan*."

In the 2022 CARB ANP, Section 5C: "As shown in Table 14, three CBSAs that include a district covered by this ANP meet the population threshold and have minimum monitoring requirements for CO; however, the near-road areas with road segments that have the highest AADT for the Los Angeles-Long Beach-Anaheim, Riverside-San Bernardino-Ontario, and Sacramento-Roseville-Folsom CBSAs are not within the areas covered by this ANP. Subsequently, near-road monitoring for these CBSAs is addressed in the ANPs prepared by South Coast AQMD, Bay Area AQMD, and Sacramento Metropolitan AQMD."

2022 CARB Annual Network Plan Table 14

CBSA	Population 2020 Census (2021 Population Estimate)	Required # of Near-road Sites	Near-road Sites (AQS ID; District where sites are located)
Los Angeles-Long Beach-Anaheim	13,200,998 (12,997,353)	1	Anaheim-Route 5; 060590008 (South Coast)
Riverside-San Bernardino-Ontario	4,599,839 (4,653,105)	1	Ontario-Etiwanda; 060710026 (South Coast)
Sacramento-Roseville-Folsom	2,397,382 (2,411,428)	1	Sacramento-Bercut Drive; 060670015 (Sacramento)
San Diego-Chula Vista-Carlsbad	3,298,634 (3,286,069)	1	Rancho Carmel Dr. ; 060731017 (San Diego)
San Francisco-Oakland-Berkeley	4,749,008 (4,623,264)	1	Laney College; (060010012 (Bay Area) Berkeley-Aquatic Park; 060010013 (Bay Area)
San Jose-Sunnyvale-Santa Clara	2,000,468 (1,952,185)	1	San Jose-Knox Ave; 060850006 (Bay Area)

"Several districts covered by this ANP (Antelope Valley, Butte County, Imperial County and Mojave Desert) operate five area-wide CO monitors as listed in Table 2. The data from these monitors are used for various purposes such as estimating the general population exposure and also determining the impact of emissions from wildfires. CO concentrations at area-wide monitors are well below the standard, and California has long attained federal and State CO standards. CARB is working with EPA to close CO monitors at Calexico (060250005), Chico (060070008), Modesto (060990005), and Stockton (060771003)."

The CO National and California Ambient Air Quality Standards are:

	1-Hr Average	8-Hr Average
National Ambient Air Quality Standard	35 ppm	9 ppm
California Ambient Air Quality Standard	20 ppm	9.0 ppm

CARB's Trace CO monitors are spanned at 4 ppm, less than half the value of the 9 ppm 8-hour Standard. Due to the Trace CO range and calibration concentrations, if any reported value were to equal or exceed the 9 ppm 8-hour average, this value would exceed the instrument's range and therefore would be unusable for regulatory purposes.

In addition, Trace CO monitoring requires utilization of expensive, high maintenance equipment. When CARB's existing network Trace CO monitors reached end-of-life, replacement Trace CO monitors were purchased and installed at monitoring stations. These replacements have shown that they cannot maintain zero drift criteria and as such, are unsuitable for deployment. Almost two years after receiving replacement monitors and working with the manufacturer, no short- or long-term solution is in sight.

Based on the 2022 CARB ANP statement to work with US EPA to close CO monitoring at the four (4) sites and the current unavailability of replacement Trace CO monitors, CARB is requesting US EPA's approval to discontinue Trace CO monitoring at Chico, Stockton, Modesto, and Calexico.

If you have any questions or require additional information, please contact Mr. Mac McDougall at (916)327-4720 or via email at *mac.mcdougall@arb.ca.gov*.

Sincerely,

Kathleen Gill

Kathleen Gill
Chief, Air Quality Surveillance Branch
Monitoring and Laboratory Division

cc: See next page

cc:

Mike Miguel, Acting Chief, Monitoring and Laboratory Division
Michael T. Benjamin, Chief, Air Quality Planning and Science Division
Sylvia Vanderspek, Chief, Air Quality Planning Branch
Mac McDougall, Manager, Air Monitoring North Section
Adolfo Garcia, Manager, Air Monitoring South Section

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

January 12, 2021

Kathleen Gill
Chief, Air Quality Surveillance Branch
Monitoring and Laboratory Division
California Air Resources Board
1927 13th Street
Sacramento, CA 95811

Gary Willey
Air Pollution Control Officer
San Luis Obispo County Air Pollution Control District
3433 Roberto Court
San Luis Obispo, CA 93401

Dear Chief Gill and Air Pollution Control Officer Willey:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board's (CARB's) discontinuation of the O_3, $PM_{2.5}$, and PM_{10} State/Local Air Monitoring Station (SLAMS) monitors at the San Luis Obispo-Higuera Street site (Air Quality System (AQS) Site ID: 06-079-2006), as well as the approval of San Luis Obispo County Air Pollution Control District's (SLOCAPCD's) proposed $PM_{2.5}$ and PM_{10} SLAMS monitors at the new San Luis Obispo site (AQS ID: 06-079-2020) at 3433 Roberto Court, San Luis Obispo, CA 93401. On October 15, 2020, SLOCAPCD sent a letter to EPA describing the proposal to establish $PM_{2.5}$ and PM_{10} monitoring at the new San Luis Obispo site. On December 30, 2020, CARB sent a letter to EPA describing the proposal to discontinue O_3, $PM_{2.5}$, and PM_{10} monitoring at the San Luis Obispo-Higuera St. site. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors and approval of new SLAMS monitors.

Discontinuation of the O_3, $PM_{2.5}$ and PM_{10} SLAMS CARB-operated monitors was reviewed by EPA against criteria contained in 40 CFR 58.14(c), which states that requests for discontinuation "may also be approved on a case-by-case basis if discontinuance does not compromise data collection needed for

implementation of a NAAQS and if the requirements of appendix D to this part, if any, continue to be met."

According to certified data submitted to EPA's AQS, the O_3 monitor was in attainment of the 2008 and 2015 8-hour O_3 National Ambient Air Quality Standards (NAAQS) from 2015-2019. During 2015-2019, the 4th maximum daily 8-hour O_3 concentrations were generally at least 10 parts per billion (ppb) below the 2015 NAAQS. Preliminary 2020 data are consistent with the historical trends and continue to show attainment of the NAAQS. This O_3 SLAMs monitor is not specifically required by an attainment or maintenance plan and is not the maximum O_3 concentration site in the San Luis Obispo-Paso Robles Metropolitan Statistical Area (MSA). CARB and SLOCAPCD will continue to operate seven SLAMS O_3 monitors in the MSA, including the SLOCAPCD-operated Morro Bay O_3 monitor that records similar concentrations to and is located ~12 miles away from the San Luis Obispo-Higuera St. site. Furthermore, discontinuance of this monitor does not compromise data collection needed for implementation of the NAAQS and will not prevent SLOCAPCD from meeting 40 CFR 58 Appendix D requirements.

According to certified data submitted to EPA's AQS, the San Luis Obispo-Higuera St. site was in attainment of the 2012 annual $PM_{2.5}$ NAAQS, 2006 24-hour $PM_{2.5}$ NAAQS and 1987 24-hour PM_{10} NAAQS from 2017-2019; 2015-2016 design values were invalid due to a siting issue and subsequent suspension of sampling operations during those years. Preliminary 2020 data are consistent with the historical trends and continue to show attainment of all relevant NAAQS. As demonstrated in CARB's letter and supporting documentation, the San Luis-Obispo-Higuera St. site is not and is unlikely to become the maximum $PM_{2.5}$ concentration site for the county, and all annual $PM_{2.5}$ averages, annual $PM_{2.5}$ 98th percentile values, and valid and invalid $PM_{2.5}$ design values for the site between 2015 and 2019 are below the corresponding NAAQS. No 24-hr PM_{10} exceedances were recorded in the last five years at San Luis-Obispo-Higuera St. site. Furthermore, discontinuance of these monitors does not compromise data collection needed for implementation of the $PM_{2.5}$ and PM_{10} NAAQS and will not prevent SLOCAPCD from meeting 40 CER 58 Appendix D requirements. As mentioned above and elaborated upon below, SLOCAPCD will continue $PM_{2.5}$ and PM_{10} SLAMS monitoring at a new San Luis Obispo site in the area.

Discontinuation of monitoring at San Luis Obispo-Higuera St. will allow SLOCAPCD to use CARB-donated equipment to begin monitoring at the new San Luis Obispo site. EPA reviewed the proposal for $PM_{2.5}$ and PM_{10} SLAMS monitoring at the new San Luis Obispo site. This site will have similar monitoring objectives and spatial scales as the current San Luis Obispo-Higuera St. site and will be located at the SLOCAPCD's headquarters office in downtown San Luis Obispo with a targeted monitoring start date of January 1, 2021.

Based on these analyses, EPA approves CARB's discontinuation of the San Luis Obispo-Higuera St. O_3, $PM_{2.5}$, and PM_{10} SLAMs monitors, and also approves SLOCAPCD's proposal for $PM_{2.5}$ and PM_{10} SLAMS monitoring at the new San Luis Obispo site. The approval of the new SLAMS monitors assumes that the new site will meet all 40 CFR 58 requirements, including the siting requirements specified in Appendix E. Please work with EPA to ensure that the new site meets all relevant requirements. Please include this letter and the relevant monitor and site information in both upcoming SLOCAPCD and CARB annual monitoring network plans.

If you have any questions, please feel free to contact me at (415) 947-4134 or Dena Vallano of my staff at (415) 972-3134.

Sincerely,

Gwen Yoshimura, Manager
Air Quality Analysis Office
Air and Radiation Division

cc (via email): Manisha Singh, CARB
Greg Gilani, CARB
Sylvia Vanderspek, CARB
Adolfo Garcia, CARB
Reggie Smith, CARB
Thomas Lovejoy, CARB
Kyle Vagadori, CARB
Andrew Mutziger, SLOCAPCD
Kevin Kaizuka, SLOCAPCD
David Cardiel, SLOCAPCD
Cody Gibbons, SLOCAPCD