Appendices to the 2024 Annual Network Plan

List of Appendices

Appendix A: Detailed Site Reports

Appendix B: Ozone Seasonal Monitoring Sites Waiver Request

Appendix C: Supporting Documentation for Site Changes

Appendix D: Detailed Site Reports - CARB Operated Sites Outside of CARB ANP

Appendix E: Summary of Public Comments and CARB Responses

Detailed Site Reports

Table of Contents

Amador County APCD	A-1
Antelope Valley AQMD	A-2
Butte County AQMD	A-3
Calaveras County APCD	A-6
Colusa County APCD	A-7
Eastern Kern APCD	A-8
El Dorado County AQMD	A-11
Feather River AQMD	A-15
Glenn County APCD	A-17
Imperial County APCD	A-18
Lake County AQMD	A-24
Mariposa County APCD	A-25
Mendocino County AQMD	A-28
Mojave Desert AQMD	A-32
Northern Sierra AQMD	A-40
Northern Sonoma County APCD	A-45
Placer County APCD	A-48
Shasta County AQMD	A-53
Siskiyou County APCD	A-57
Tehama County APCD	A-59
Tuolumne County APCD	A-60
Ventura County APCD	A-61
Volo-Solano AOMD	Δ_66

Amador County APCD

Local Site Name AQS ID GPS Coordinates Street Address County Distance to roadways (meters) Traffic Count (AADT,year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC Primary, QA-Audit, Supplementary, or N/A	Ozone, 1 Primary 44201	Jackson-Clinton Road 06-005-0002 38.34261, -120.76443 201 Clinton Rd, Jackson, 95642 Amador 270 to CA-49 7,300 (2,500) Asphalt None	
GPS Coordinates Street Address County Distance to roadways (meters) Traffic Count (AADT, year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	38.34261, -120.76443 201 Clinton Rd, Jackson, 95642 Amador 270 to CA-49 7,300 (2,500) Asphalt	
Street Address County Distance to roadways (meters) Traffic Count (AADT,year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	201 Clinton Rd, Jackson, 95642 Amador 270 to CA-49 7,300 (2,500) Asphalt	
County Distance to roadways (meters) Traffic Count (AADT,year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	Amador 270 to CA-49 7,300 (2,500) Asphalt	
Distance to roadways (meters) Traffic Count (AADT,year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	270 to CA-49 7,300 (2,500) Asphalt	
Traffic Count (AADT,year) Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	7,300 (2,500) Asphalt	
Ground Cover Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	Asphalt	
Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	Primary 44201	· · · · · · · · · · · · · · · · · · ·	
Pollutant, POC	Primary 44201	None	
	Primary 44201		
Drimon, OA Audit Cumplementon, or N/A	44201		
	_	<u> </u>	
Parameter Code			
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,	Teflon		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.3		
Carbonyls (seconds)			
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	2/21/2023		
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-Fairgrounds				
AQS ID			06-037-9035		
GPS Coordinates			34.725389, -118.178601		
Street Address		0554.1	W. Avenue H . Lancaster.	02525	
		2001	, ,	93333	
County		404	Los Angeles	11	
Distance to roadways (meters)			o Avenue G8, 730m to Ave		
Traffic Count (AADT,year)		Avenue G8	- 50 estimate, Avenue H -	3,750 (2014)	
Ground Cover			Asphalt		
Representative statistical area name (i.e. MSA, CBSA, other)			Beach-Anaheim Metropoli		
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 1	PM2.5, 1	
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, Public Info.	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 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	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	
Reporting Agency	Antelope Valley	Antelope Valley	Antelope Valley	Antelope Valley	
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	
Monitoring start date	12/28/2022	12/28/2022	12/22/2022	12/22/2022	
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)	4	4	6	6	
Distance from supporting structure (meters)	1	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 T. floor	360	360	
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon	Teflon	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	0.0	0.0	NI/A	NI/A	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	6.0	8.0	N/A	N/A	
Carbonyls (seconds) Will there be changes within the next 18 months?	No	No	No	No	
Is it suitable for comparison against the annual PM2.5 NAAQS?	No N/A	No N/A	No N/A	No Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A N/A	N/A N/A	N/A N/A	Yes 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	2/28/2023	2/28/2023	N/A	N/A	
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	02/28/23	02/28/23	
PM monitors			09/19/23	09/19/23	

Butte County AQMD

Local Site Name	Chico - East Avenue					
AQS ID			06-007-0008			
GPS Coordinates			39.76168121.84047			
Street Address		084	East Ave, Ste B4, Chico, 9	15026		
County		304	Butte	00920		
,			895 to CA-99			
Distance to roadways (meters) Traffic Count (AADT,year)			47,200 (2020)			
			, , ,			
Ground Cover		OL:	Asphalt	A		
Representative statistical area name (i.e. MSA, CBSA, other): Pollutant, POC	00.0		co Metropolitan Statistical		DMO F 2	
,	CO, 3	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	Primary 42101	Primary 42602	Primary 44201	Primary	Primary 88101	
Parameter Code	-		_	81102		
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 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,	Teflon	Teflon	Teflon	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	12.8	18.6	13.4	N/A	N/A	
Carbonyls (seconds)	NI.	NI.	NI.	NI.	NI.	
Will there be changes within the next 18 months?	No 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	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	9/7/2023	9/7/2023	9/7/2023	03/24/23	03/24/23	
PM monitors		ļ.	ļ.	09/07/23	09/07/23	

Local Site Name	Gridley					
AQS ID	06-007-4001					
GPS Coordinates		39.32756, -121.66881				
Street Address		608 Cowee Ave, Gridley, 95948				
County		Butte				
•		1,053 to CA-99				
Distance to roadways (meters)						
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,	N/A					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A					
Carbonyls (seconds)						
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	N/A					
gaseous parameters	** *					
Date of two semi-annual flow rate audits conducted in the past calendar year for	05/09/23					
PM monitors	10/23/23					

GPS Cordinates	Local Site Name	Paradise - Clark					
SPREAD STREET AND STREET							
Street Address S921 Clark Road, Paradise, 9569	- 144 1-						
Distance to roadways (meters) 72 to CA-191 (Clark Rd)			500				
Distance to roadways (meters) Traffic Court (AADT year) Ground Cover Representative statistical area name (i.e. MSA, GBSA, other) Pollutant, POC Primary, OA-Audit, Supplementary, or N/A Primary, OA-Audit,			592	, ,			
Primary							
Asphalt							
Representative statistical area name (i.e. MSA, CBSA, other) Chico Metropolitan Statistical Area Pollutant, POP. Primary, Q.AAudill, Supplementary, or NIA Primary (AAudill, Supplementary, or NIA NA (AAudill, Supplementary, or NIA NA (AAudill, Supplementary, or NIA Population (AAudill, Supplementary, or NIA Primary (AAudill, Supplementary, or NIA NA (AAudill, Supplementary, or NIA Reporting Agency CARB (AAudill, Carbin, AAudill, AAudilll, AAudill, AAudill, AAudill, AAudill, AAudill, AAudi	(',			, , ,			
Follutant, POC Cozone, 1 PMZ, 5, 3 Primary Pri							
Primary (D.A.Pualdt, Supplementary, or N/A Primary Pri		,					
Basic monitoring objective(s) NAAGS Public Information		Ozone, 1	PM2.5, 3				
Basic monitoring objective(s) NAAGS Public Information Site type(s) Monitor type(s) Monitor type(s) Monitor type(s) Monitor type(s) NAM Instrument manufacturer and model NAM Instrument manufacturer and model Method code 87 170 FRAMFEMARMOther FEM Other Collecting Agency CARB CARB Analytical Lab (e. weigh lab, toxics lab, other) NAM Reporting Agency CARB CARB CA	Primary, QA-Audit, Supplementary, or N/A	Primary	Primary				
Site type(s)		44201	88502				
Monitor type(s) SLAMS OTHER N/A N/A N/A		NAAQS	Public Information				
Network affiliation(s) N/A N/A N/A		Population Exposure	Population Exposure				
Network affiliation(s) N/A N/A N/A	Monitor type(s)	SLAMS	OTHER				
Method code 87 170							
Method code 87 170	Instrument manufacturer and model	Teledyne API T400	Met One BAM 1020				
CaRB	Method code						
Analytical Lab (i.e. weigh lab, toxics lab, other)	FRM/FEM/ARM/Other	FEM	Other				
Reporting Agency Spatial scale Neighborhood Monitoring start date Spatial scale Neighborhood Monitoring start date Spatial scale Neighborhood Monitoring start date Spatial scale Spatial scale Spatial scale Neighborhood Monitoring start date Spatial scale Spatial scale Spatial scale Spatial scale Spatial scale Spatial scale Neighborhood Spatial scale	Collecting Agency	CARB	CARB				
Reporting Agency Spatial scale Neighborhood Monitoring start date Spatial scale Neighborhood Monitoring start date Spatial scale Neighborhood Monitoring start date Spatial scale Spatial scale Spatial scale Neighborhood Monitoring start date Spatial scale Spatial scale Spatial scale Spatial scale Spatial scale Spatial scale Neighborhood Spatial scale	Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A				
Monitoring start date Sizione S		CARB	CARB				
Current sampling frequency Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan	Spatial scale	Neighborhood	Neighborhood				
Current sampling frequency Continuous Continuous	Monitoring start date	5/2/2023	5/16/2023				
Sampling season		Continuous	Continuous				
Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec Probe height (meters) 6.25 7.39 Distance from supporting structure (meters) 2.08 3.23 Distance from obstructions on roof (meters) No obstructions Height above probe for obstructions not nor (meters) No obstructions No obstru	Required sampling frequency including exceptional events	N/A	N/A				
Distance from supporting structure (meters) Distance from obstructions on roof (meters) No obstructions To obstructions No obstructions To obstructions No obstructions N		1-Jan - 31-Dec	1-Jan - 31-Dec				
Distance from supporting structure (meters) Distance from obstructions on roof (meters) No obstructions To obstructions No obstructions To obstructions No obstructions N	Probe height (meters)	6.25	7.39				
Distance from obstructions on roof (meters) Height above probe for obstructions on roof (meters) N/A N/A N/A N/A N/A N/A N/A N/		2.08					
Height above probe for obstructions on roof (meters) N/A Distance from obstructions not on roof (meters) No obstructions Teffon Teffon Teffon Teffon Teffon Teffon No obstructions Teffon Teffon No obstructions No o							
Distance from obstructions not on roof (meters) Height above probe for obstructions not on roof (meters) N/A Distance to nearest tree drip line (meters) N/A Distance to furnace or incinerator flue (meters) N/A Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A Distance between monitors fulfilling a QA collocation requirement (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 N/A N/A N/A N/							
Height above probe for obstructions not on roof (meters) N/A 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 Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A N/A N/A N/A N/A N/A N/							
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 N/A N/A N/A N/A N/A N/A N/	Height above probe for obstructions not on roof (meters)						
Distance to furnace or incinerator flue (meters) N/A N/A N/A N/A N/A N/A N/A N/		·	-				
Distance between monitors fulfilling a QA collocation requirement (meters) 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) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) 13 N/A Will there be changes within the next 18 months? No No Is it suitable for comparison against the annual PM2.5 NAAQS? 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 N/A Date of Annual performance evaluation conducted in the past calendar year for							
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) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? Is it suitable for comparison against the annual PM2.5 NAAQS? 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 N/A Date of Annual performance evaluation conducted in the past calendar year for							
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? Is it suitable for comparison against the annual PM2.5 NAAQS? 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 N/A Date of Annual performance evaluation conducted in the past calendar year for		·	-				
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Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? No No Is it suitable for comparison against the annual PM2.5 NAAQS? Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A NO Frequency of flow rate verification for automated PM analyzers N/A Semi-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		Teflon	Teflon				
Carbonyls (seconds) Will there be changes within the next 18 months? Is it suitable for comparison against the annual PM2.5 NAAQS? 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 N/A Date of Annual performance evaluation conducted in the past calendar year for		1 011011	1011011				
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Is it suitable for comparison against the annual PM2.5 NAAQS? Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A NO N/A N/A N/A Frequency of flow rate verification for automated PM analyzers N/A Semi-Monthly Frequency of one-point QC check for gaseous instruments Daily Date of Annual performance evaluation conducted in the past calendar year for							
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 Semi-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							
N/A N/A Frequency of flow rate verification for automated PM analyzers N/A Semi-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		1 1// 1	110				
Frequency of flow rate verification for automated PM analyzers N/A Semi-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		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	Frequency of flow rate verification for automated PM analyzers						
Date of Annual performance evaluation conducted in the past calendar year for			, ,				
		24	147.				
gaseous parameters 8/17/2023 N/A		8/17/2023	N/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for		5,, 2020	147.				
PM monitors N/A 2/14/2024, 8/17/23		N/A	2/14/2024 8/17/23				

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 Go	old Strike Rd, San Andreas	95249	
County		301 00	Calaveras	, 30243	
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)	<u> </u>	D1440 0	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,	Teflon	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	10.1	A1/A	A1/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	12.4	N/A	N/A		
Carbonyls (seconds)		.,			
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		
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	2/22/2023	N/A	N/A		
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	02/22/23	02/22/23		
PM monitors		09/06/23	09/06/23		

Colusa County APCD

Local Site Name	Colusa-Sunrise Blvd				
AQS ID			06-011-1002		
1.44.5.12			** *** ***		
GPS Coordinates			39.18919, -121.99887		
Street Address		100	Sunrise Blvd, Colusa, 959	932	
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	88101		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS		
Site type(s)	General Background	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 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,	Teflon	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.5	N/A	N/A		
Carbonyls (seconds)					
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	4/27/2023	N/A	N/A		
gaseous parameters		•			
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	04/27/23	04/27/23		
PM monitors		10/12/23	10/12/23		
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Eastern Kern APCD

Local Site Name	Canebrake					
AQS ID	06-029-0017					
GPS Coordinates		35.72775118.13770				
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)	D1440 0	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;					
Management (1)	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,	N/A					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N1/A					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A					
Carbonyls (seconds)	NI.					
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	04/11/23					
PM monitors	09/19/23					
	00,10,20	ļ <u> </u>				

Local Site Name	Ridgecrest - Ward Ave					
AQS ID			06-029-0018			
GPS Coordinates			35.64296, -117.71414			
Street Address		205	33.04290, -117.71414 i1 Ward Av , Ridgecrest, 93555			
		205	· · ·			
County	N. D.:	0/ 1/00 \ 0 1 1	Kern			
Distance to roadways (meters)			ve (235m), West Ward Ave. (162m), Jacks Ranch Road (800m)			
Traffic Count	Primavera 5 (staff es	stimate), Sydnor 15 (staff e	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,	N/A	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A				
Carbonyls (seconds)						
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	03/01/23	03/01/23				
PM monitors	09/19/23	09/19/23				
i minoritoro	00/10/20	00/10/20				

Local Site Name	Mojave - Pat Ave				
AQS ID			06-029-0020		
GPS Coordinates			35.04944, -118.18893		
Street Address		3200	Pat Avenue, Mojave, CA	03501	
		3200	Kern	93301	
County			1.367 to SR-14		
Distance to roadways (meters)			,		
Traffic Count (AADT,year)			17,000 (2017)		
Ground Cover			Dirt/Soil		
Representative statistical area name (i.e. MSA, CBSA, other)			sfield Metropolitan Statistic	al Area	
Pollutant, POC	Ozone, 1	PM10, 2	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		
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	3/8/2023	3/8/2023	3/8/2023		
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,	Teflon	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	10.8	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	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	4/11/2023	N/A	N/A		
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	04/11/23	04/11/23		
PM monitors		09/19/23	09/19/23		

El Dorado County AQMD

Local Site Name	Cool (seasonal)					
AQS ID	06-017-0020					
GPS Coordinates			38.89094, -121.00337			
Street Address		1400 A	merican River Trail, Cool,	95614		
County		11007	El Dorado	, 00011		
Distance to roadways (meters)			183 to CA-193			
Traffic Count (AADT,year)			6,300 (2015)			
Ground Cover			0,300 (2013) Dirt			
Representative statistical area name (i.e. MSA, CBSA, other)		Sacramento Posevi	lle-Arden-Arcade Metropo	litan Statistical Area		
Pollutant, POC	Ozone, 1	Sacramento-Rosevi	ile-Arden-Arcade Metropo	l Statistical Area		
Primary, QA-Audit, Supplementary, or N/A	Primary					
Parameter Code	44201					
	NAAQS					
Basic monitoring objective(s)						
Site type(s)	Highest Concentration					
Monitor type(s) Network affiliation(s)	SLAMS N/A					
Instrument manufacturer and model	Teledyne API 400					
Method code	1 eledyne API 400 87					
FRM/FEM/ARM/Other	87 FEM					
	CARB					
Collecting Agency 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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.7					
Carbonyls (seconds)						
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	5/24/2023					
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A					
PM monitors	·					
		<u> </u>		!		

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					
		El Dorado					
County Distance to reading (maters)		207 to US-50					
Distance to roadways (meters)							
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						
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,	Teflon						
Carbonyls (e.g. Pyrex, stainless steel, Teflon)							
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.7						
Carbonyls (seconds)							
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	5/25/2023						
gaseous parameters							
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A						
PM monitors							

Local Site Name	Placerville - Canal					
AQS ID	06-017-2004					
GPS Coordinates		38.73319, -120.81372				
Street Address		56.1 Canal St, Placerville, CA 95667561 Canal St, Placerville, CA 95667				
		El Dorado				
County Distance to readings (maters)						
Distance to roadways (meters)		730 m to Route 50 /Canal Street intersection; 346 m to the closest Route 50				
Traffic Count (AADT,year)		42,000 (Caltrans Traffic AADT, 2022)				
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					
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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	14.7					
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	4/24/2023					
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					
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,	N/A					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A					
Carbonyls (seconds)						
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	05/25/23					
PM monitors	10/26/23					

Feather River AQMD

Local Site Name AQS ID GPS Coordinates		Sutter Buttes (seasonal) 06-101-0004				
· ·	06-101-0004					
1GPS Coordinates		39.20556121.82046				
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	f uba Gity Metropolitan Statistical Area				
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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	26.5					
Carbonyls (seconds)						
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 sampler	s 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	5/23/2023					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A					

Local Site Name	Yuba City						
			06-101-0003				
AQS ID							
GPS Coordinates		770	39.13876, -121.61872	2004			
Street Address		773	3 Almond St, Yuba City, 95	991			
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 Statistica	al Area			
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 3	PM2.5, 3	PM2.5, 4		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	AQ-Audit		
Parameter Code	42602	44201	81102	88101	88101		
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						
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						
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,	Teflon	Teflon	N/A	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	1 011011	1 011011	13//	13//3	13//		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	18.7	13.6	N/A	N/A	N/A		
Carbonyls (seconds)	15.7	13.0	14/7	14/11	13//		
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		
	19/75	I W/A	19/75	IV/A	IWA		
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	8/18/2023	8/18/2023	N/A	N/A	N/A		
gaseous parameters							
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	02/08/23	02/08/23	02/08/23		
PM monitors			08/18/23	08/18/23	08/18/23		

Glenn County APCD

Local Site Name Willows-Colusa						
AQS ID			06-021-0003			
GPS Coordinates			39.53387122.19083			
		700		2000		
Street Address		720	N. Colusa St., Willows, 95	988		
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	Primary	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,	Teflon	N/A	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.3	N/A	N/A			
Carbonyls (seconds)						
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	2/24/2023	N/A	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	02/24/23	02/24/23			
PM monitors		09/06/23	09/06/23			

Imperial County APCD

Local Site Name	Brawley-Main Street #2					
AQS ID			06-025-0007			
GPS Coordinates			32.97831, -115.53904			
Street Address		2	20 Main St., Brawley, 922	27		
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)		ELCo	ntro Metropolitan Statistica	ol Aroo		
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)	SLAMS N/A	SLAMS 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 frealest tree drip line (freders) Distance to furnace or incinerator flue (meters)	N/A (No trees)	N/A (NO trees)				
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,	N/A	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	14/7	IN/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A		+		
Carbonyls (seconds)	11/7	IN/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			+	
	14/74	14/75				
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	N/A	N/A				
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	03/06/23	03/06/23				
PM monitors	09/26/23	09/26/23				

Local Site Name	El Centro-9th Street					
AQS ID			06-025-1003			
GPS Coordinates			32.79215, -115.56299			
Street Address		1	150 9th St. El Centro. 9224	2		
			Imperial	·3		
County			528 to CA-86			
Distance to roadways (meters)						
Traffic Count (AADT,year)			17,000 (2015)			
Ground Cover			Asphalt			
Representative statistical area name (i.e. MSA, CBSA, other)			ntro Metropolitan Statistica			
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,	Teflon	Teflon	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.0	13.7	N/A	N/A		
Carbonyls (seconds)						
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	,	0.40.0000	N/A	N/A		
gaseous parameters	3/16/2023	3/16/2023				
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	03/16/23	03/16/23		
PM monitors			09/26/23	09/26/23		

Local Site Name:	Niland-English Road					
AQS ID:			06-025-4004			
GPS Coordinates:			33,21349, -115,54514			
Street Address:		771	1 English Road, Niland, 92	2257		
County:		771	Imperial	2231		
			2,460 to CA-111			
Distance to roadways (meters):			,			
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,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.5	N/A				
Carbonyls (seconds)						
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	3/8/2023	N/A				
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/08/23				
PM monitors		09/26/23				

Local Site Name:	Westmorland					
AQS ID:			06-025-4003			
GPS Coordinates:			33.03239, -115.62362			
		F70		20004		
Street Address:		5/0	Cook St., Westmorland, 9	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 Cer	ntro Metropolitan Statistica	al 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	Teledvne 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				
0 1		No obstructions				
Distance from obstructions not on roof (meters)	No obstructions					
Height above probe for obstructions not on roof (meters)	N/A >10	N/A >10				
Distance to nearest tree drip line (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)	-	,				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360 T. fl.	360		1		
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	0.4	A1/A				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	6.1	N/A				
Carbonyls (seconds)		<u> </u>				
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	3/8/2023	N/A				
gaseous parameters	N1/A	00/00/00				
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/08/23				
PM monitors		09/26/23				

Local Site Name:	Calexico-Ethel Street					
AQS ID:			06-025-0005			
GPS Coordinates:			32.67887, -115.48292			
Street Address:		4005	32.67887, -115.48292 Andrade Ave. Calexico. 9	2024		
		1085	, - , -	2231		
County:			re			
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	NO2, 1	Ozone, 1	SO2, 3		
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary		
Parameter Code	42101	42602	44201	42401		
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS		
Site type(s)	Population Exposure	Population Exposure	Highest Concentration	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 300	Thermo 42iQ	Teledyne API 400	Thermo 43i-TLE		
Method code	593	74	87	560		
FRM/FEM/ARM/Other	FRM	FRM	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	3/1/2013	3/1/1994	4/1/1994	3/1/2013		
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,	Teflon	Teflon	Teflon	Teflon		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	4.3	5.1	4.5	5.9		
Carbonyls (seconds)						
Will there be changes within the next 18 months?	No No	No	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		
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*	<u> </u>	
Date of Annual performance evaluation conducted in the past calendar year for	3/7/2023	3/7/2023	3/7/2023	3/7/2023		
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	N/A	N/A		
PM monitors						

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

					(continued)
Local Site Name:	Calexico-Ethel Street				
AQS ID:			06-025-0005		
GPS Coordinates:			32.67887, -115.48292		
Street Address:		1085	Andrade Ave, Calexico, 9	2231	
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):		FI Ce	ntro Metropolitan Statistica	l Δrea	
Pollutant. POC	PM10, 3	PM2.5, 2	PM2.5, 3	171100	
Primary, QA-Audit, Supplementary, or N/A	Primary	QA-Audit	Primary		+
Parameter Code	81102	88101	88101		+
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	Met One BAM 1020	Thermo 2000l	Met One BAM 1020 W		+
monument manulacturer and model	MICE OTHE DAIN TOZU	111011110 20001	VSCC		
Method code	122	143	170		+
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 01/15/2016	Neighborhood 4/1/2021	Neighborhood 12/1/2020		-
Monitoring start date	Continuous	1:12	Continuous		-
Current sampling frequency	N/A	N/A	N/A		+
Required sampling frequency including exceptional events 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 supporting structure (meters) 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 N/A		+
Height above probe for obstructions not on roof (meters)	1N/A 3	3	3		-
Distance to nearest tree drip line (meters)	>19	>19	>19		+
Distance to hearest tree drip line (meters) Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A		+
Distance to infrace of incinerator ride (meters) Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	1.4	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,	N/A	N/A	N/A		+
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	IN/A	IN/A	IN/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A	N/A		+
Carbonyls (seconds)	111/71	IN/A	IN/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	03/07/23	03/07/23	03/07/23		+
PM monitors	09/26/23	09/26/23	09/26/23		
- Milloritoro	00120120	00120120	00/20/20	l .	

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	, , ,				
Distance to roadways (meters)	Lake				
, , ,			30		
Traffic Count Notes			15,300 (2015)		
Ground Cover		Clear	lake Micropolitan Statistica	ıl 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,	Teflon	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.2	N/A	N/A		
Carbonyls (seconds)					
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	1/mo	1/mo		
	// 1	.,	.,		
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	6/13/2023	N/A	N/A		
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	06/13/23	06/13/23		
PM monitors		11/16/23	11/16/23		
Note: The Lake County AOMD is working with EDA to receive District stoffing and					

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	Notice			
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	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,	Teflon				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	1011011				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	9.2				
Carbonyls (seconds)	0.2				
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	10/9/2023				
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				
1 Williamonico		ļ <u> </u>			

Local Site Name: AQS ID: GPS Coordinates: Street Address: County: Distance to roadways (meters): Traffic Count (AADT, year) Ground Cover:			osemite Village - Visitor Cent 06-043-1001 37.74871, -119.58709				
GPS Coordinates: Street Address: County: Distance to roadways (meters): Traffic Count (AADT, year)		Visitors Center, Yo	37.74871, -119.58709				
Street Address: County: Distance to roadways (meters): Traffic Count (AADT, year)		Visitors Center, Yo					
County: Distance to roadways (meters): Traffic Count (AADT,year)		Visitors Center, Yo		,			
Distance to roadways (meters): Traffic Count (AADT,year)			Visitors Center, Yosemite Village, Yosemite National Park, 95389				
Traffic Count (AADT,year)		Mariposa					
			220 to Northside Drive				
Ground Cover:			Not available				
			Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):			None				
	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) Popula	ation Exposure	Population Exposure					
	SLAMS	Other					
Network affiliation(s)	N/A	N/A					
Instrument manufacturer and model Met C	ne 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					
	Continuous	Continuous					
Required sampling frequency including exceptional events	N/A	N/A					
	an - 31-Dec	1-Jan - 31-Dec					
Probe height (meters)	8.6	8.4					
Distance from supporting structure (meters)	2.2	2					
	obstructions	No obstructions					
Height above probe for obstructions on roof (meters)	N/A	N/A					
	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,	N/A	N/A					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)							
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A					
Carbonyls (seconds)							
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					
, , , , , , , , , , , , , , , , , , , ,							
	Monthly	Monthly	Notes:		ı		
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				
Date of Annual performance evaluation conducted in the past calendar year for	N/A	N/A					
gaseous parameters			AQDA issued on 5-15-12.				
Date of two semi-annual flow rate audits conducted in the past calendar year for	04/13/23	04/13/23					
	10/10/23	10/10/23					

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,	Teflon				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds)	8.0				
Will there be changes within the next 18 months?	No				
Is it suitable for comparison against the annual PM2.5 NAAQS?	NO 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	10/10/2023				
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A				
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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			
		Ukiah Micropolitan Statistical Area			
Representative statistical area name (i.e. MSA, CBSA, other) Pollutant, POC	PM10, 1	Okian Micropolitan Statistical Area			
	,				
Primary, QA-Audit, Supplementary, or N/A Parameter Code	Primary 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,	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A				
Carbonyls (seconds)					
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	Monthly				
Frequency of one-point QC check for gaseous instruments	N/A				
Date of Annual performance evaluation conducted in the past calendar year for	N/A				
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	05/24/23				
PM monitors	11/16/23				
T III THOUSE	11/10/20				

AGS 10	Local Site Name		Ukiah - Gobbi Street			
GPS Cordinates \$36 E Color (ADT / 1997) Distance to roadways (meters) Traffic Count (ADT / 1997) Traffic Count						
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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	Will there be changes within the next 18 months?					
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 5/25/2023						
Frequency of one-point QC check for gaseous instruments Weekly Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters S/25/2023	Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	Frequency of flow rate verification for automated PM analyzers	N/A				
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	Frequency of one-point QC check for gaseous instruments	Weekly				
	Date of Annual performance evaluation conducted in the past calendar year for	5/25/2023				
Date of two semi-annual flow rate audits conducted in the past calendar year for N/A PM monitors	Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A				

Local Site Name		Ukiah - Library			
AQS ID	06-045-0006				
GPS Coordinates	39.15047, -123.20655				
Street Address	39.15047, -123.20055 105 N. Main St. Ukiah. 95482				
	105 N. Main St, Ukian, 95482 Mendocino				
County Distance to readings (maters)		847 to US-101			
Distance to roadways (meters)					
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,	N/A				
Carbonyls (e.g. Pyrex, stainless steel, 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?	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	05/25/23				
PM monitors	11/16/23				

Local Site Name		Willits - Blosser Lane		
AQS ID	06-045-2003			
GPS Coordinates	39.39861123.35872			
Street Address	1277 Blosser Lane, Willits, 95490			
County		Mendocino		
		595 to State Hwy 20		
Distance to roadways (meters)				
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 FEM			
FRM/FEM/ARM/Other				
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) Distance to nearest tree drip line (meters)	N/A >10			
Distance to hearest 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)	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	IN/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)	111/71			
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	05/24/23			
PM monitors	11/16/23			
I W MONICO	11/10/20			

Mojave Desert AQMD

Local Site Name			Barstow		
AQS ID	06-071-0001				
GPS Coordinates	34.89405, -117.02471				
	,				
Street Address	301 E. Mountain View St., Barstow, 92311				
County			San Bernardino	,	
Distance to roadways (meters)			890 to I-15; 890 to CA-247		
Traffic Count (AADT,year)		66,00	0 (I-15); 18,400 (CA-247)	(2015)	
Ground Cover			Asphalt		
Representative statistical area name (i.e. MSA, CBSA, other)			nardino-Ontario Metropolit	an 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)	5.2	5.2	5.7		
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,	Teflon	Teflon	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.2	14.7	N/A		
Carbonyls (seconds)					
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	3/14/2023	3/14/2023	N/A		
gaseous parameters		*********			
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	03/14/23		
PM monitors	***	×= =	09/20/23		
<u> </u>	<u> </u>	<u> </u>	11, 20, 20		<u> </u>

Local Cita Nama			Hesperia-Olive Street	
Local Site Name 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)			rnardino-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)	4	4.5		
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,	Teflon	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	2.7	N/A		
Carbonyls (seconds)				
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	3/2/2023	N/A		
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/02/23		
PM monitors		09/20/23		
	1			

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				
		Joshua Tree National Monument, CA 92239 San Bernardino			
County:		13 (Campground Rd)			
Distance to roadways (meters):		(10 /			
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,	Teflon				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.5				
Carbonyls (seconds)					
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					
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	not audited in 2023				
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A				
PM monitors	ĺ				

Local Site Name:		Iı	ucerne Valley - Middle Sch	ool	1
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):			rnardino-Ontario Metropoli	tan 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	Population Exposure			
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	1/1/2024	1/14/2015			
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)	3	3			
Distance from supporting structure (meters)	1.1	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)	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	270			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	3.3	N/A			
Carbonyls (seconds)					
Will there be changes within the next 18 months?	Yes	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	TBD	N/A			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/02/23			
PM monitors		09/20/23			

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:		42,000 (2013) Dirt		
		Riverside-San Bernardino-Ontario Metropolitan Statistical Area		
Representative statistical area name (i.e. MSA, CBSA, other):	0 4	Riverside-San Bernardino-Ontano ivietropolitari Statisticai Area		
Pollutant, POC	Ozone, 1 N/A			
Primary, QA-Audit, Supplementary, or N/A Parameter Code	N/A 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 FRM/FEM/ARM/Other	190 FEM			
Collecting Agency	National Park Service N/A			
Analytical Lab (i.e. weigh lab, toxics lab, other)	-			
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 >10			
Distance to nearest tree drip line (meters) Distance to furnace or incinerator flue (meters)	>10 N/A			
Distance to turnace or incinerator flue (meters) Distance between monitors fulfilling a QA collocation requirement (meters)	N/A N/A			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path) Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	360 N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	IN/A			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	not audited			
Carbonyls (seconds)	not addited			
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	N/A			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	not audited			
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A			
PM monitors	IN/A			
*Inst County Details 10/21/2020; Cita is not assumed to be added to be added the decided to be				

^{*}Last Sample Date was 10/31/2020; Site is not currently scheduled to be audited due to location, access, and power issues; not reporting data to AQS

Local Site Name:			Trona - Athol/Telescope #2)	
AQS ID:			06-071-1234	=	
GPS Coordinates:	35.771470, -117.37210				
Street Address:	Telescope & Athol, Trona, 93562				
		1 , ,			
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):			rnardino-Ontario Metropolit	an 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)	4.2	4.2	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,	Teflon	Teflon	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	9.5	9.4	N/A		
Carbonyls (seconds)	0.0	J.,			
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	9/20/2023	9/20/2023	N/A		
gaseous parameters	0/20/2020	0/20/2020	1 177		
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	04/11/23		
PM monitors			09/20/23		
L M HIGHIGO	l		09/20/23		

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)		40,00	00 (CA-18); 87,000 (I-15) (2015)	
Ground Cover:	Asphalt				
Representative statistical area name (i.e. MSA, CBSA, other):		Riverside-San Be	rnardino-Ontario Metropolit	tan Statistical Area	
Pollutant, POC	NO2, 1	Ozone, 1	PM10, 1	PM2.5, 1	PM2.5, 2
Primary, QA-Audit, Supplementary, or N/A	N/A	N/A	Primary	Primary	QA-Audit
Parameter Code	42602	44201	81102	88101	88101
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Regional Transport; Population Exposure	Regional Transport; 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 200U	Teledyne API 400T	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	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	N/A	N/A
Reporting Agency	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD	Mojave Desert AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	01/01/2000	01/01/2000	1/1/2014	1/1/2016	1/1/2016
Current sampling frequency	Continuous	Continuous	Continuous	Continuous	1:6
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)	6.9	6.9	7.5	7.6	7.6
Distance from supporting structure (meters)	1.9	1.9	2	2.1	2.1
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)	N/A (no trees)	N/A (no trees)	N/A (no trees)	N/A (no trees)	N/A (no trees)
Distance to furnace or incinerator flue (meters)	N/A (no trees)	N/A (no trees)	N/A (no trees)	N/A (no trees)	N/A (no trees)
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A	N/A	2	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,	Teflon	Teflon	N/A	N/A	N/A
	renon	renon	N/A	N/A	IN/A
Carbonyls (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	16.8	17.4	N/A	N/A	N/A
Carbonyls (seconds)	8.01	17.4	IN/A	IN/A	IN/A
Will there be changes within the next 18 months?	No	No	No	Yes	Yes
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	Monthly
		·		·	,
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	Monthly	Monthly	N/A
Frequency of one-point QC check for gaseous instruments	Every 2 weeks	Every 2 weeks	N/A	N/A	N/A
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/1/2023	3/1/2023	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	03/01/23 09/20/23	03/01/23 09/20/23	03/01/23 09/20/23

Local Site Name		Blythe-Murphy Street		
AQS ID	06-065-9003			
GPS Coordinates	33.61235, -114.60209			
Street Address	33.61235, -114.60209 445 W Murphy St, Blythe, 92225			
County	445 W Murphy St, Blytne, 92225 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	Primary			
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 T-fl			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	14.0			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.6			
Carbonyls (seconds)	A.			
Will there be changes within the next 18 months?	No N/A			
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				
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	3/28/2023			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A			
PM monitors				

Northern Sierra AQMD

Local Site Name:		Chester		
AQS ID:	06-063-1007			
GPS Coordinates:	40.30965121.22785			
Street Address:	222 1st Ave, Chester 96020			
County:		Plumas		
		133 to CA-36		
Distance to roadways (meters):		4,800 (2015)		
Traffic Count (AADT,year)				
Ground Cover:		Asphalt		
Representative statistical area name (i.e. MSA, CBSA, other):	DM0.5.4	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,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)				
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	N/A			
samplers				
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	N/A			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	02/15/23			
PM monitors	07/28/23			

Local Site Name: AQS ID:		,	Orass valley-Littori Dullulli		
AUJ ID.	Grass Valley-Litton Building 06-057-0005				
CDS Coordinates:		39.23352, -121.05567			
GPS Coordinates:					
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-Gra	ass Valley Micropolitan Sta	atistical 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 T400	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,	Teflon	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	1511011	13//3			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	12.5	N/A			+
Carbonyls (seconds)	12.0	14// 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	Yes			
Frequency of flow rate verification for manual PM samplers, including Pb	N/A	N/A			
samplers	·				
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	7/27/2023	N/A			
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	02/16/23 07/27/23			

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, 4			
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)	CSN supplemental			
Instrument manufacturer and model	Met One BAM 1022			
Method code	209			
FRM/FEM/ARM/Other	FEM			
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	10/1/2022			
Current sampling frequency	Continuous			
Required sampling frequency including exceptional events	N/A			
Sampling season	1-Jan - 31-Dec			
Probe height (meters)	8.3			
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)	3			
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	""			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)	""			
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	N/A			
samplers				
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	N/A			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	02/15/23			
PM monitors	07/28/23			
1 M Monitoro	01120120			

Local Site Name:		Quincy-N Church Street		
AQS ID:	06-063-1006			
GPS Coordinates:	39.93957120.94438			
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, 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 1022			
Method code	209			
FRM/FEM/ARM/Other	FEM			
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	10/1/2022			
Current sampling frequency	Continuous			
Required sampling frequency including exceptional events	N/A			
Sampling season	1-Jan - 31-Dec			
Probe height (meters)	12.1			
Distance from supporting structure (meters)	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,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)				
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	N/A			
samplers				
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	N/A			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	02/15/23			
PM monitors	07/28/23			

Local Site Name:		Truckee - Fire Station		
AQS ID:	06-057-1001			
GPS Coordinates:	39.32782120.18459			
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, 3			
Primary, QA-Audit, Supplementary, or N/A	Supplementary			
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	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	1/1/2007			
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			
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,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)				
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	N/A			
samplers				
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	N/A			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	02/16/23			
PM monitors	07/27/23			

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		
		15,400 (2015)		
Traffic Count (AADT,year)				
Ground Cover		Asphalt		
Representative statistical area name (i.e. MSA, CBSA, other)	D1440.0	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,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)				
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	N/A			
samplers				
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	N/A			
gaseous parameters				
Date of two semi-annual flow rate audits conducted in the past calendar year for	05/17/23			
PM monitors	11/14/23			

Local Site Name AQS ID GPS Coordinates Street Address County Distance to roadways (meters)		Guerneville-Church and 1st 06-097-3002 38.50107, -122.99819					
GPS Coordinates Street Address County		38.50107, -122.99819					
Street Address County							
County							
		16255 1st Street Guerneville, 95446					
Distance to roadways (meters)	Sonoma						
	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						
	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						
	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,	N/A	+ + + + + + + + + + + + + + + + + + + +					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	14/73						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A						
Carbonyls (seconds)	IN/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	N/A N/A						
samplers	IN/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	N/A						
gaseous parameters							
Date of two semi-annual flow rate audits conducted in the past calendar year for	05/17/23						
PM monitors	11/14/23						

Local Site Name:	Healdsburg - Matheson					
AQS ID:	06-097-0002					
GPS Coordinates:		38.61090122.86878				
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,	N/A					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A					
Carbonyls (seconds)						
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	N/A					
samplers						
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	N/A					
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	05/17/23					
PM monitors	11/14/23					
· · · · · · · · · · · · · · · · · · ·	11/11/20					

Placer County APCD

Local Site Name:	Auburn - Atwood Rd					
AQS ID:	06-061-0003					
GPS Coordinates:			38.93568, -121.09959			
Street Address:		116	45 Atwood Rd., Auburn, 9	5603		
County:		110	Placer	0000		
Distance to roadways (meters):			446 to CA-49			
Traffic Count (AADT,year)	39,000 (2015)					
Ground Cover:			Asphalt			
		Corremente Decey	ille-Arden-Arcade Metrop	alitan Ctatiatical Area		
Representative statistical area name (i.e. MSA, CBSA, other): Pollutant. POC	Ozone, 1	PM2.5. 1	ille-Arden-Arcade Metrop	Dilian Statistical Area		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary				
Parameter Code	44201	88101				
Basic monitoring objective(s)	NAAQS	NAAQS				
		Population Exposure				
Site type(s)	Population Exposure					
Monitor type(s) Network affiliation(s)	SLAMS N/A	SLAMS N/A		+		
Instrument manufacturer and model	Teledyne API T400	Met One BAM1020		+		
Method code	1 eledyne API 1400 87			+		
FRM/FEM/ARM/Other	FEM	170 FEM		+		
Collecting Agency	Placer County	Placer County		+		
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A				
	CARB	CARB				
Reporting Agency	_	_			_	
Spatial scale	Neighborhood	Neighborhood 1/1/2012				
Monitoring start date	06/24/2011					
Current sampling frequency	Continuous N/A	Continuous N/A				
Required sampling frequency including exceptional events	-	-			_	
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 N/A	>10 N/A				
Distance to furnace or incinerator flue (meters)	-	-				
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A				
Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360 T. a	360				
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	45.0	NI/A				
	15.8	N/A				
Carbonyls (seconds)	NI-	N1-				
Will there be changes within the next 18 months? Is it suitable for comparison against the annual PM2.5 NAAQS?	No N/A	No Yes		+	+	
Frequency of flow rate verification for manual PM samplers, including Pb	N/A N/A	N/A		+		
Isamplers	IN/A	IN/A				
Frequency of flow rate verification for automated PM analyzers	N/A	Monthly		+	+	
Frequency of now rate verification for automated PM analyzers 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	8/2/2023	N/A N/A		+		
gaseous parameters	0/2/2023	IN/A				
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	2/7/2023		+		
	IN/A					
PM monitors	L	8/1/2023				

Local Site Name:	Colfax-City Hall					
AQS ID:			06-061-0004			
GPS Coordinates:			39.09979, -120.95391			
Street Address:		3	3 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):			ille-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,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	1511011	13//1				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.9	N/A				
Carbonyls (seconds)	1-7.0	14/7				
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	N/A	N/A				
samplers		·				
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	8/1/2023	N/A				
gaseous parameters				<u> </u>		
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	2/7/2023				
PM monitors		8/1/2023				

Local Site Name:	Lincoln-Moore Road					
AQS ID:			06-061-2003			
GPS Coordinates:			38.86794121.33835			
Street Address:		288	5 Moore Road, Lincoln, 9	5648		
County:		200	Placer	3040		
Distance to roadways (meters):			20 to Moore Road			
Traffic Count (AADT,year)			500 (2019)			
Ground Cover:			Grass	" 0 " " 1 4		
Representative statistical area name (i.e. MSA, CBSA, other):			ille-Arden-Arcade Metropo	olitan 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,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	11.6	N/A				
Carbonyls (seconds)						
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	N/A	N/A				
samplers						
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	7/31/2023	N/A				
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	2/7/2023				
PM monitors		7/31/2023				

Local Site Name:	Tahoe City-Fairway Drive					
AQS ID:			06-061-1004			
GPS Coordinates:			39.16602, -120.14883			
		224 5	airway Drive, Tahoe City, 9614	1E		
Street Address:		221 F	Placer	10		
County:						
Distance to roadways (meters):	280 to CA- 89; 377 to CA-28					
Traffic Count (AADT,year)		10,800	(CA- 89); 11,800 (CA-28) (201	15)		
Ground Cover:			Dirt			
Representative statistical area name (i.e. MSA, CBSA, other):			ille-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,	Teflon	N/A	+			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	1511011	13//1				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.4	N/A	+			
Carbonyls (seconds)	10.4	14/7				
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	N/A	N/A	+			
samplers		·				
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	8/3/2023	N/A				
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	2/7/2023				
PM monitors		8/3/2023				

GPS Coordinates:	Local Site Name:	Roseville-N Sunrise Ave					
GPS Coordinates:							
Street Address: 151 N Surrise Ave, Roseville, 95661							
Distance to roadways (meters): 330 to 80			454	,	FCC4		
Distance to roadways (meters): 330 to 1-80			1511		2001		
Traffic Count (ADT,year)							
Representative statistical area name (i.e. MSA, CBSA, other): Sacramento-Roseville-Ander-Aracle Metropolitan Statistical Area							
Representative statistical area name (i.e. MSA, CBSA, other): Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				, , ,			
Pollutant, POC							
Primary	Representative statistical area name (i.e. MSA, CBSA, other):		Sacramento-Roseville-Arden-Arcade Metropolitan Statistical Area				
Parameter Code	Pollutant, POC						
Basic monitoring objective(s)	Primary, QA-Audit, Supplementary, or N/A				Primary		
Population Exposure Highest Concentration Highest Concentration Highest Concentration Highest Concentration Hoper	Parameter Code	42602	44201	81102	88101		
Monitor type(s) SLAMS SLAMS SLAMS Other	Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS		
Network affiliation(s)	Site type(s)	Population Exposure	Highest Concentration	Highest Concentration	Population Exposure		
Instrument manufacturer and model		SLAMS	SLAMS	SLAMS			
Method code		-					
FRM FEM FEM Collecting Agency CARB			,	Met One BAM 1020			
Collecting Agency							
Analytical Lab (i.e. weigh lab, toxics lab, other)	FRM/FEM/ARM/Other						
Reporting Agency CARB CARB CARB CARB CARB Spatial scale Neighborhood NA N/A N/A N/A N/A N/A N/A N/A							
Spatial scale	Analytical Lab (i.e. weigh lab, toxics lab, other)			,			
Monitoring start date	Reporting Agency	CARB	CARB	CARB	CARB		
Current sampling frequency Required sampling frequency including exceptional events N/A N/A N/A N/A N/A N/A N/A N/A N/A N/	Spatial scale						
Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec	Monitoring start date	01/13/1993	01/13/1993	4/1/2015	12/1/2020		
Sampling season	Current sampling frequency	Continuous	Continuous	Continuous	Continuous		
Probe height (meters) Distance from supporting structure (meters) Distance from obstructions on roof (meters) No obstructions No obstructi	Required sampling frequency including exceptional events						
Distance from supporting structure (meters) Distance from obstructions on roof (meters) No obstructions N	Sampling season	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec	1-Jan - 31-Dec		
Distance from obstructions on roof (meters) Height above probe for obstructions on roof (meters) No obstructions No obstru							
Height above probe for obstructions on roof (meters) N/A Distance from obstructions not on roof (meters) No obstructions	Distance from supporting structure (meters)	3.5	3.5	2.9	2.9		
Distance from obstructions not on roof (meters) No obstructions No obstr		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 N/A N/A N/	Height above probe for obstructions on roof (meters)	N/A	N/A	N/A	N/A		
Distance to nearest tree drip line (meters) Sitance to furnace or incinerator flue (meters) N/A N/A N/A N/A N/A	Distance from obstructions not on roof (meters)	No obstructions			No obstructions		
Distance to furnace or incinerator flue (meters) N/A N/A N/A N/A N/A N/A N/A N/		-	-	-	-		
Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A N/A N/A N/A N/A N/A N/		_	_	-			
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) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? No			-	-			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? Is it suitable for comparison against the annual PM2.5 NAAQS? Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A N/A N/A N/A N/A N/A N/A N/		-	-				
Carbonyls (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? No N							
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Carbonyls (seconds) Will there be changes within the next 18 months? No No No No No No Is it suitable for comparison against the annual PM2.5 NAAQS? 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 Frequency of one-point QC check for gaseous instruments Daily Daily N/A N/A		Teflon	Teflon	N/A	N/A		
Carbonyls (seconds) Will there be changes within the next 18 months? No No No No No No Is it suitable for comparison against the annual PM2.5 NAAQS? 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 Frequency of one-point QC check for gaseous instruments Daily Daily N/A N/A	Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Will there be changes within the next 18 months? No		18.1	13.6	N/A	N/A		
Is it suitable for comparison against the annual PM2.5 NAAQS? Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A N/A N/A N/A N/A N/A N/A N/		N-	NI-	NI-	NI-		
Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A N/A N/A N/A N/A N/A N/A N/							
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							
Frequency of one-point QC check for gaseous instruments Daily Daily N/A N/A							
Frequency of one-point QC check for gaseous instruments Daily Daily N/A N/A N/A N/A N/A N/A		-	-	,	<u> </u>		
Data of Annual made manages and united in the most relandance of the Color of the C	Frequency of one-point QC check for gaseous instruments		,	-			
gaseous parameters	Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	5/11/2023	5/11/2023	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for N/A N/A 05/11/23 05/11/23 PM monitors 10/23/23 10/23/23	Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A				

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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.4					
Carbonyls (seconds)						
Will there be changes within the next 18 months?	Site closed OCT 2023					
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	3/15/2023					
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		Manza	nita Lake RS. Lassen Volc	anic NP		
County		Wanza	Shasta	ariio 14i		
Distance to roadways (meters)			778 to CA-44			
Treffic Count (AADT user)		1,150 (2015)				
Traffic Count (AADT,year)						
Ground Cover			Dirt			
Representative statistical area name (i.e. MSA, CBSA, other)		Redo	ling Metropolitan Statistica	Area	1	
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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A					
Carbonyls (seconds)	•					
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	6.5					
Frequency of flow rate verification for automated PM analyzers	N/A		Notes:	l	<u> </u>	
Frequency of one-point QC check for gaseous instruments	Daily		* Distance to tree is 8m; height unknown. Waiver (EPA) was granted in 20			
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/15/2023			•	· -	
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:		IN	06-089-0004	TIL.		
-7.7			40.55013, -122.38092			
GPS Coordinates:		2000		20004		
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):		Redd	ing 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,	Teflon, Pyrex	N/A	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Borosilicate					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	9.6	N/A	N/A	N/A		
Carbonyls (seconds)						
Will there be changes within the next 18 months?	No	Yes	No	No		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	N/A	Yes	No	<u> </u>	
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	3/14/2023	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	03/14/23 08/21/23	03/14/23 08/21/23	03/14/23 08/21/23		

Local Site Name:			Shasta Lake - Lake Blvd			
AQS ID:	06-089-0009					
GPS Coordinates:			40.68908, -122.40226			
Street Address:		1270	1 Lake Blvd., Shasta Lake	06010		
County:		1379	Shasta	, 90019		
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):		Redo	ding Metropolitan Statistica	ıl Area	1	
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 frearest tree drip line (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,	Teflon, Pyrex					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Borosilicate					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	19.4					
Carbonyls (seconds)	19.4					
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 N/A					
requericy of now rate verification for manual PNI samplers, including Pb samplers	N/A					
Frequency of flow rate verification for automated PM analyzers	N/A		Notes:			
Frequency of one-point QC check for gaseous instruments	weekly		* Cell tower is not considered an obstruction. Distance to probe is 6m.			
Date of Annual performance evaluation conducted in the past calendar year for	3/14/2023					
gaseous parameters	5/11/2020					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A					
PM monitors	1 1// 1					
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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, 96	2007		
County	-	330	Siskiyou	1091		
Distance to roadways (meters)		40.5	437 to I-5; 496 to CA-3	0.4.5.)		
Traffic Count (AADT,year)		16,5	500 (I-5); 8,700 (CA-3) (20	U15)		
Ground Cover			Asphalt			
Representative statistical area name (i.e. MSA, CBSA, other)			None	1		
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				
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,	Teflon	N/A				
Carbonyls (e.g. Pyrex, stainless steel, Teflon)		N111				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	4.3	N/A				
Carbonyls (seconds)	110	N.				
Will there be changes within the next 18 months?	NO N/A	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	3/16/2023	N/A N/A		+		
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/16/23				
PM monitors		08/22/23				

Tehama County APCD

Local Site Name			Red Bluff - Walnut Street		
AQS ID			06-103-0007		
GPS Coordinates			40.17088122.25556		
Street Address		1934	Walnut Street, Red Bluff, 9	26080	
County		1634	Tehama	90080	
•			1.860 to CA-36		
Distance to roadways (meters)			,		
Traffic Count (AADT,year)			11,400 (2015)		
Ground Cover			Grass		
Representative statistical area name (i.e. MSA, CBSA, other)			Bluff Micropolitan Statistica	l Area	
Pollutant, POC	Ozone, 1	PM10, 3	PM2.5, 3		
Primary, QA-Audit, Supplementary, or N/A	N/A	Primary	Primary		
Parameter Code	44201	85101	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	Met One BAM 1020	Met One BAM1022		
Method code	87	122	209		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
Collecting Agency	Tehama County APCD	Tehama County APCD	Tehama County APCD		
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	1/29/2015	4/11/2023	4/14/2023		
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	6.4	6.2		
Distance from supporting structure (meters)	2.4	2.7	>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)	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,	Pyrex, borosilicate glass	N/A	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	0.0	N1/A	N1/A		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	9.9	N/A	N/A		
Carbonyls (seconds)	NI-	NI-	NI-		
Will there be changes within the next 18 months?	No N/A	No	No N/A		
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A N/A	Yes 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	Monthly	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	3/13/2023	N/A	N/A		
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	03/13/23	03/13/23		
PM monitors	13//1	08/21/23	08/21/23		
1 W MONICO	ļ	00/21/20	00/21/20		

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
0.0000		, , , , , , , , , , , , , , , , , , , ,
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,	Teflon	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	5.7	
Carbonyls (seconds)		
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		
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	5/8/2023	
gaseous parameters		
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	
PM monitors		

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, 95	5370		
County:			Tuolumne			
Distance to roadways (meters):			355 to CA-49			
Traffic Count (AADT,year)			18,300 (2015)			
Ground Cover:			Gravel			
	Sonora Micropolitan Statistical Area					
Representative statistical area name (i.e. MSA, CBSA, other): Pollutant, POC	Ozone, 1	30110	ra Micropolitari Statisticai	Area		
Primary, QA-Audit, Supplementary, or N/A	Primary			+		
Parameter Code	44201			+		
Basic monitoring objective(s)	NAAQS			+		
Site type(s)	Highest Concentration					
	Ŭ					
Monitor type(s) Network affiliation(s)	SLAMS N/A					
Instrument manufacturer and model Method code	Teledyne API 400 87					
FRM/FEM/ARM/Other	87 FEM					
	CARB					
Collecting Agency	_					
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,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	23.0					
Carbonyls (seconds)						
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	2/21/2023					
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A					
PM monitors						
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Ventura County APCD

Local Site Name:			El Rio-Rio Mesa School #2)	
AQS ID:			06-111-3001	-	
GPS Coordinates:			34.25239119.14318		
				20	
Street Address:		54	45 Central Av, El Rio, 9303	30	
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):			d Oaks-Ventura Metropolita		
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,	Teflon, borosilicate glass	Teflon, borosilicate glass	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	, , ,]			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.1	14.2	N/A	N/A	
Carbonyls (seconds)					
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	
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	12/19/2023	11/15/2023	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	04/25/23	04/25/23	
PM monitors			11/15/23	11/15/23	

Local Site Name:	T		Ojai - East Ojai Ave		
AQS ID:			06-111-1004		
1 1 4 7 1 1 1					
GPS Coordinates:			34.44806, -119.23130	22	
Street Address:		12	201 E. Ojai Ave, Ojai, 930	23	
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	d Oaks-Ventura Metropolit	an 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,	Teflon, borosilicate glass	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.5	N/A			
Carbonyls (seconds)					
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	11/16/2023	N/A			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	04/26/23			
PM monitors		11/16/23			

AGS ID:	Local Site Name:			Piru - Pacific		
GPS Coordinates: 34.4028118.8098						
Street Address: 3301 Pacific Ave. Piru. 93040	1 140 121					
Distance to roadways (meters):						
Distance to roadways (meters):			33	, , ,	40	
Treffic Count (AADT, year)						
Coronal Cover: Dirt						
Representative statistical area name (i.e. MSA, CBSA, other): Ozone, 1 PMZ.5 3 Pollutant, POC Primary, QA-Audit, Supplementary, or N/A Parameter Code Basic monitoring objective(s) NAAOS Site type(s) NAOS Site type(s) Population Exposure Highest Concentration Monitor type(6) NIA NIA NIA NIA NIA NIA NIA NI	(',			, , ,		
Pollutant, POC	Ground Cover:			Dirt		
Primary, QA-Audit, Supplementary, or N/A	Representative statistical area name (i.e. MSA, CBSA, other):		Oxnard-Thousand	d Oaks-Ventura Metropolita	an Statistical Area	
Parameter Code	Pollutant, POC	Ozone, 1	PM2.5, 3			
Basic monitoring objective(s)	Primary, QA-Audit, Supplementary, or N/A	N/A	N/A			
Site type(s) Population Exposure Highest Concentration Monitor type(s) SLAMS SLAMS N/A	Parameter Code	44201	88101			
Monitor type(s) SLAMS SLAMS NiA	Basic monitoring objective(s)	NAAQS	NAAQS			
Network affiliation(s)	Site type(s)	Population Exposure	Highest Concentration			
Instrument manufacturer and model Method code 87 170 FRM/FEM/ARR/WOther FEM FEM FEM Collecting Agency Ventura County APCD Analytical Lab (i.e. weigh lab, toxics lab, other) N/A Reporting Agency Ventura County APCD Ventura County APCD Spatial scale Urban Monitoring start date Urrent sampling frequency Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec Probe height (meters) Distance from obstructions not on roof (meters) Height above probe for obstructions not on roof (meters) N/A	Monitor type(s)	SLAMS	SLAMS			
Method code 87 170 FRM/FEW/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 11/103/2000 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 not 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	Network affiliation(s)	N/A	N/A			
FRM/FEM/ARM/Other FEM FEM FEM Collecting Agency Ventura County APCD Ventura County APCD Ventura County APCD N/A	Instrument manufacturer and model	Teledyne API 400	Met One BAM 1020			
Collecting Agency Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency Ventura County APCD Ventura County APCD Ventura County APCD Ventura County APCD Spatial scale Urban Neighborhood Monitoring start date 11/03/2000 11/15/2011 Current sampling frequency Continuous Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec Probe height (meters) 1.8 2.3 Distance from supporting structure (meters) N/A Distance from obstructions on roof (meters) N/A Distance from obstructions on roof (meters) No obstructions	Method code	87	170			
Collecting Agency Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency Ventura County APCD Ventura County APCD Ventura County APCD Ventura County APCD Spatial scale Urban Neighborhood Monitoring start date 11/03/2000 11/15/2011 Current sampling frequency Continuous Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec Probe height (meters) 1.8 2.3 Distance from supporting structure (meters) N/A Distance from obstructions on roof (meters) N/A Distance from obstructions on roof (meters) No obstructions	FRM/FEM/ARM/Other	FEM	FEM			
Analytical Lab (i.e. weigh lab, toxics lab, other) Reporting Agency Ventura County APCD Ventura Cunty APCD Ventura Cuther Neighbord Ventura County APCD Ventura Cuther Neighbord Ventura Cunty APCD Ventura Cuther Ventura County Ventura Cunty Ventura Cunty Ventura Cunty Ventura Cunty Ventura Cunty Ventura Cuther Ventura County Ventura County Ventura County Ventura Cuther Ventura Neighbord Ventura		Ventura County APCD	Ventura County APCD			
Reporting Agency Spatial scale Urban Meighborhood Monitoring start date 11/03/2000 Monitoring frequency Current sampling frequency Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec Probe height (meters) Distance from supporting structure (meters) No obstructions Height above probe for obstructions on roof (meters) No obstructions No obs						
Spatial scale Urban Neighborhood Monitoring start date 11/03/2000 11/15/2011 Current sampling frequency Continuous Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec 1-Jan - 31-Dec Probe height (meters) 1.8 2.3 Distance from supporting structure (meters) No obstructions N		Ventura County APCD	Ventura County APCD			
Monitoring start date 11/03/2000 11/15/2011 Current sampling frequency Continuous Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-	1 0 0 7					
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						
Required sampling frequency including exceptional events N/A Sampling season 1-Jan - 31-Dec 1-Jan - 31-Dec 1-Jan - 31-Dec Probe height (meters) 1.8 2.3 Distance from supporting structure (meters) No obstructions No o						
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 obstructi		N/A				
Probe height (meters) Distance from supporting structure (meters) Distance from obstructions on roof (meters) Height above probe for obstructions not on roof (meters) No obstructions No ob			-			
Distance from supporting structure (meters) Distance from obstructions on roof (meters) Height above probe for obstructions on roof (meters) No obstructions No obstructions						
Distance from obstructions on roof (meters) Height above probe for obstructions on roof (meters) Distance from obstructions not on roof (meters) No obstructions No obstruct						
Height above probe for obstructions on roof (meters) Distance from obstructions not on roof (meters) No obstructions N/A N/A Distance to nearest tree drip line (meters) N/A N/A Distance to furnace or incinerator flue (meters) N/A Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A N/A	Distance from obstructions on roof (meters)					
Distance from obstructions not on roof (meters) Height above probe for obstructions not on roof (meters) No obstructions N/A N/A Distance to nearest tree drip line (meters) N/A N/A N/A Distance to furnace or incinerator flue (meters) N/A N/A N/A N/A N/A N/A						
Height above probe for obstructions not on roof (meters) N/A Distance to nearest tree drip line (meters) Distance to furnace or incinerator flue (meters) N/A N/A N/A N/A N/A N/A N/A N/			-			
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 N/A N/A						
Distance to furnace or incinerator flue (meters) N/A N/A N/A Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A N/A						
Distance between monitors fulfilling a QA collocation requirement (meters) N/A N/A		-	_			
Uprestricted airflow (degrees around probe/inlet or % of monitoring path) 360 360	Unrestricted airflow (degrees around probe/inlet or % of monitoring path)	360	360			+
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, Teflon, borosilicate glass N/A		***				+
Carbonyls (e.g. Pyrex, stainless steel, Teflon)		Tellott, borosilicate glass	14/7 (
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, 14.6 N/A		14 6	N/A			+
Carbonyls (seconds)		1 7.0	1 1// 1			
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						
Frequency of flow rate verification for manual PM samplers, including Pb samplers N/A N/A N/A						+
11 requestly of now rate verification for manual r in samplers, including r b samplers	in requestry of now rate verification for manual raw samplers, including rab samplers	14/74	IV/A			
Frequency of flow rate verification for automated PM analyzers N/A Biweekly	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	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 11/16/2023 N/A	Date of Annual performance evaluation conducted in the past calendar year for	11/16/2023	N/A			
gaseous parameters	gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for N/A 04/26/23	Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	04/26/23			
PM monitors 11/16/23			11/16/23			

Local Site Name:			Simi Valley - Cochran Stree	at .	
AQS ID:			06-111-2002	<u>, , , , , , , , , , , , , , , , , , , </u>	
GPS Coordinates:			34.27632, -118.68369		
Street Address:		E400	Cochran St, Simi Valley, 9	2062	
		5400		13003	
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):			d Oaks-Ventura Metropolita		
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,	Teflon, borosilicate glass	Teflon, borosilicate glass	N/A	N/A	N/A
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	12.9	14.4	N/A	N/A	N/A
Carbonyls (seconds)					
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	12/20/2023	11/14/2023	N/A	N/A	N/A
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	04/25/23	04/25/23	04/25/23
PM monitors			11/14/23	11/14/23	11/14/23

Local Site Name:		The	ousand Oaks-Moorpark R	nad	
AQS ID:		1110	06-111-0007		
GPS Coordinates:			34.21017, -118.87051		
Street Address:		0000 M-	orpark Rd. Thousand Oak	(0.01260	
		2323 IVIO	,	(S, 91300	
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	d Oaks-Ventura Metropolit	an 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			+
	Teflon, borosilicate glass	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	. con, sorosinoato giass	1 1// 1			
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	13.5	N/A			
Carbonyls (seconds)	10.0	1 1// 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	Yes			+
Frequency of flow rate verification for manual PM samplers, including Pb samplers	N/A	N/A			
1. requestey of now rate verification for manual Five samplers, including FD samplers	IN/A	19/73			
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	10/31/2023	N/A			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	04/25/23			
PM monitors		10/31/23			

Yolo-Solano AQMD

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	
GPS Coordinates: Street Address: 650 Merchant St, Vacaville, 95688 County: Solano Distance to roadways (meters): Traffic Count (AADT,year) Ground Cover: Representative statistical area name (i.e. MSA, CBSA, other): Pollutant, POC Primary, QA-Audit, Supplementary, or N/A Parameter Code Basic monitoring objective(s) Site type(s) Monitor type(s) Network affiliation(s) Resonance (650 Merchant St, Vacaville, 95688 650 Merchant St, Vacaville, 95688 670 Me	
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	
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	
Distance to roadways (meters): Traffic Count (AADT, year) Ground Cover: Representative statistical area name (i.e. MSA, CBSA, other): Pollutant, POC Primary, QA-Audit, Supplementary, or N/A Parameter Code Basic monitoring objective(s) Site type(s) Monitor type(s) Network affiliation(s) Rors and asphalt Vallejo-Fairfield Metropolitan Statistical Area PM10, 2 PM10, 2 PM10, 2 PM10, 2 PM10, 2 PM10, 2 POPULATION STATISTICAL STATISTI	
Traffic Count (AADT,year) Ground Cover: Representative statistical area name (i.e. MSA, CBSA, other): Pollutant, POC Primary, QA-Audit, Supplementary, or N/A Parameter Code Basic monitoring objective(s) Site type(s) Monitor type(s) Network affiliation(s) 174,000 (2015) Rass and asphalt Vallejo-Fairfield Metropolitan Statistical Area PM10, 2 PM10, 2 Pimary Parameter Code R1102 S1102 Population Exposure S12MS N/A	
Ground Cover: Representative statistical area name (i.e. MSA, CBSA, other): Vallejo-Fairfield Metropolitan Statistical Area Pollutant, POC Primary, QA-Audit, Supplementary, or N/A Primary Parameter Code Basic monitoring objective(s) Site type(s) Monitor type(s) Network affiliation(s) Grass and asphalt Vallejo-Fairfield Metropolitan Statistical Area PM10, 2	
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	
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	
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	
Parameter Code 81102 Basic monitoring objective(s) NAAQS Site type(s) Population Exposure Monitor type(s) SLAMS Network affiliation(s) N/A	
Basic monitoring objective(s) NAAQS Site type(s) Population Exposure Monitor type(s) SLAMS Network affiliation(s) N/A	
Site type(s) Population Exposure Monitor type(s) SLAMS Network affiliation(s) N/A	
Monitor type(s) SLAMS Network affiliation(s) N/A	
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	
Sampling season 1-Jan - 31-Dec	
Probe height (meters) 8.5	
Distance from supporting structure (meters)	
Distance from obstructions on roof (meters) No obstructions No obstructions	
Height above probe for obstructions on roof (meters) N/A	
Distance from obstructions not on roof (meters) No obstructions No obstructions	
Height above probe for obstructions not on roof (meters) N/A	
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 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, N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs, N/A	
Carbonyls (seconds)	
Will there be changes within the next 18 months?	
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	
Friequency of now fate verification for manual rivi samplers, including rb samplers	
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 N/A	
gaseous parameters	
Date of two semi-annual flow rate audits conducted in the past calendar year for 05/04/23	
PM monitors 10/25/23	

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				
		1,500 to I-80				
Distance to roadways (meters): Traffic Count (AADT,year)		169,000 (2015)				
Ground Cover:	Dirt Control On the C					
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;					
Marshan ton a fax	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 T. flori					
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon					
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	0.7					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.7					
Carbonyls (seconds)	NI.					
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						
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	5/4/2023					
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A					
PM monitors						

Local Site Name:		West Sacramento-15th Street		
AQS ID:		06-113-2001		
1 1 4 7 1 1 1		******		
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,	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)				
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A			
Carbonyls (seconds)				
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	05/04/23			
PM monitors	10/25/23			
I WI MONITOR	10/23/23			

Local Site Name:			Woodland-Gibson Road		
AQS ID:			06-113-1003		
GPS Coordinates:			38.66121, -121.73269		
Street Address:		44000	E Gibson Rd. Woodland.	05776	
		41929		95776	
County:			Yolo	10	
Distance to roadways (meters):		1	,442 to I-5; 1,642 to CA-11	3	
Traffic Count (AADT,year)			47,300 (2015)		
Ground Cover:			Grass		
Representative statistical area name (i.e. MSA, CBSA, other):		Sacramento-Rosev	ille-Arden-Arcade Metropo		
Pollutant, POC	Ozone, 1	PM10, 1	PM2.5, 1	PM2.5, 3	
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,	Teflon	N/A	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	9.0	N/A	N/A	N/A	
Carbonyls (seconds)	3.0	.,,,	.,,,,		
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	
in requesting of flow ratio verification for manual ray samplers, including FD samplers	14/7	Wichting	Monthly	13//5	
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	5/3/2023	N/A	N/A	N/A	<u> </u>
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	05/03/23	05/03/23	05/03/23	
PM monitors		10/25/23	10/25/23	10/25/23	

Local Site Name:			Davis-UCD Campus		
AQS ID:			06-113-0004		
1.40 1.1			38.53455121.77340		
GPS Coordinates: Street Address:			,	^	
			Campbell Rd, Davis, 95616	0	
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):			ille-Arden-Arcade Metropo	litan 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,	Teflon	Teflon	N/A		
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	46 -	46.1	N/C		
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	10.7	10.1	N/A		
Carbonyls (seconds)	N				
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	8/15/2023	8/15/2023	N/A		
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	N/A	02/08/23		
PM monitors			08/15/23		
i in monitora			00/10/20	I	I

Appendix A 70

Appendix B

Ozone Seasonal Monitoring Waiver Renewal Request

Ozone Seasonal Monitoring Sites 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. 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 monitoring 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 2023 Design Value (ppm) ¹
Echo Summit ²	060170012	El Dorado	2000	April-October	0.070
Cool	060170020	El Dorado	1996	April-October	0.075
Jerseydale ³	060430006	Mariposa	1995	April-October	0.073
Sutter Buttes	061010004	Sutter	1993	April-October	0.071
Tuscan Butte	061030004	Tehama	1995	April-October	0.072

¹Ozone data obtained on March 29, 2024, from CARB's AQMIS database: https://www.arb.ca.gov/aqmis2/aqmis2.php

² Echo Summit site did not operate in April of 2019 through 2023, and September and October of 2021.

³ Jerseydale site did not operate in April of 2019.

CARB SEASONAL OZONE MONITORING SITES Elevated Site Map Tuscan Buttes Cool 562m 473m Miles Miles 0 0.5 1 **Sutter Buttes** 645m O Sacramento Echo Summit Miles Jerseydale 2250m 0 1 2 Miles 1146m Miles 0 0.5 1 2 3 Legend Site Air Basin Miles County _30

FIGURE 1

Appendix B

Ozone concentration data used in the analyses were retrieved from CARB's AQMIS databases in March 2024. Average of the monthly maximum 8-hour ozone concentrations for each seasonal site covering a 5-year period from 2019 to 2023 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 2023; Jerseydale in 2019) due to weather conditions that resulted in the impassable of the access roads to the sites. 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 11 percent higher than the averages of the preceding months (April and May) and 9 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 13 percent, which is 1.6 times higher than those between the months of April to May (9 percent). In addition, on average, the concentrations dropped 11 percent from September to October, and 25 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, the fourth-highest daily maximum 8-hour average ozone concentrations, used in calculating design values, were also estimated. These Design values 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, indicating that those are the key monitoring months.

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

Appendix B

3

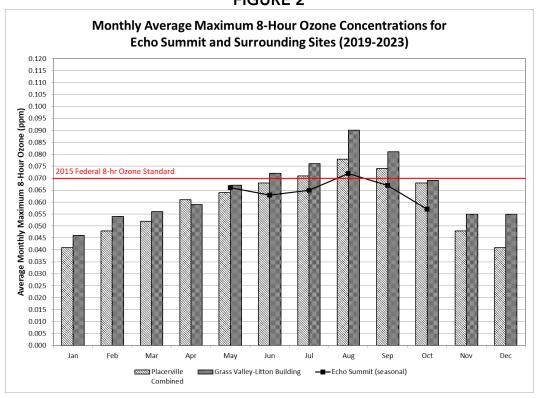
received similar recognition during designations for the 0.075 ppm federal 8-hour standard and the area immediately surrounding the monitor was designated as a nonattainment area.

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 no exceedances 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





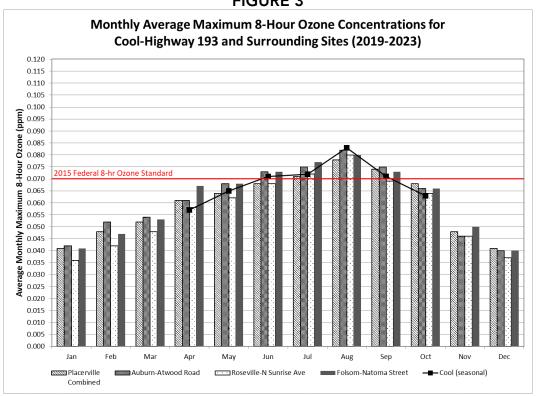


FIGURE 4

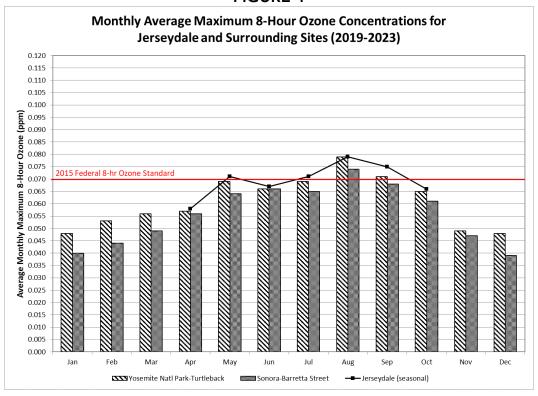
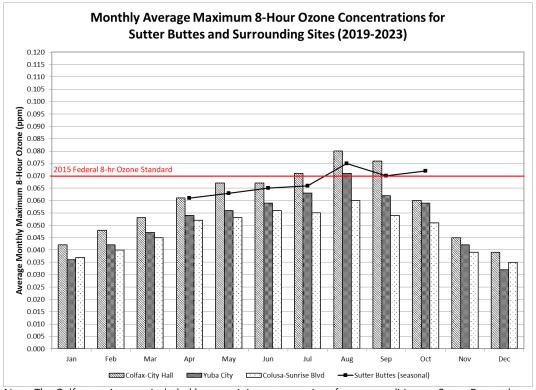


FIGURE 5



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

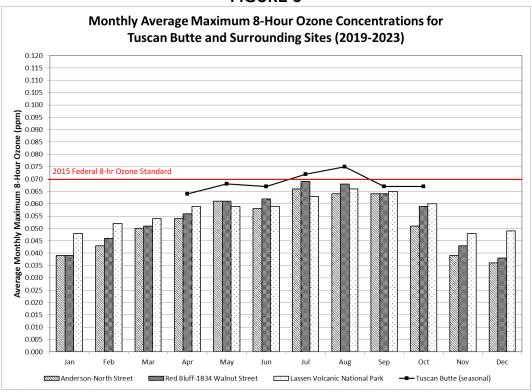


TABLE 2
MONTHLY MAXIMUM 8-HOUR OZONE CONCENTRATIONS AT SEASONAL AND SURROUNDING MONITORING SITES
(Ozone in parts per million)

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 '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				0.046			0.052	0.055		0.052	0.053	0.050	0.045	0.053			0.060	0.039
APR '19	0.055			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			0.052	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
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

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 '21	0.040	0.042	0.044	0.031			0.039	0.042		0.045	0.043	0.043	0.035	0.043			0.046	0.036
FEB '21	0.042	0.050	0.048	0.037			0.046	0.048		0.056	0.049	0.047	0.039	0.043			0.053	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			0.051	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			0.069	0.091	0.079	0.089	0.076	0.080	0.081	0.070	0.067		0.078	0.076	0.063
AUG '21	0.065	0.094	0.083		0.091	0.085	0.096	0.092	0.090	0.077	0.076	0.076	0.090	0.081		0.084	0.086	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				0.049		0.046	0.038	0.036	0.035	0.037			0.047	0.034
DEC '21	0.038	0.041	0.038	0.037				0.050		0.052	0.042	0.039	0.037	0.040			0.053	0.035
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	0.049			0.039	0.035	0.044	0.033			0.047	0.025

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	Koseville-IN	Barrett	Sutter Buttes	Tuscan Butte	Yosemite Natl Park- Turtleback	Yuba City
JAN '23		0.043	0.042	0.042			0.045	0.049		0.047	0.041	0.040	0.044	0.038			0.050	0.038
FEB '23	0.042	0.050	0.043	0.042			0.049	0.068		0.050	0.044	0.044	0.046	0.039			0.056	0.041
MAR '23	0.050	0.044	0.046	0.047	0.047		0.047	0.055	0.038	0.056	0.048	0.050	0.049	0.048	0.049	0.049	0.057	0.046
APR '23	0.061	0.057	0.065	0.064	0.060		0.071	0.069	0.051	0.061	0.067	0.061	0.067	0.055	0.066	0.071	0.059	0.061
MAY '23	0.063	0.056	0.064	0.059	0.066		0.067	0.069	0.055	0.057	0.063	0.063	0.074	0.064	0.066	0.067	0.063	0.057
JUN '23	0.060	0.064	0.064	0.060	0.072	0.065	0.073	0.072	0.053	0.055	0.064	0.058	0.081	0.065	0.064	0.064	0.062	0.057
JUL '23	0.075	0.067	0.067	0.060	0.075	0.067	0.073	0.081	0.061	0.064		0.072	0.083	0.074	0.072	0.075	0.069	0.062
AUG '23	0.064	0.066	0.075	0.059	0.074	0.076	0.069	0.082	0.067	0.059	0.075	0.064	0.077	0.074	0.068	0.068	0.074	0.067
SEP '23	0.062	0.056	0.089	0.054	0.062	0.063	0.062	0.070	0.057	0.056	0.064	0.058	0.065	0.059	0.061	0.061	0.062	0.057
OCT '23		0.057	0.057	0.053	0.065	0.057	0.060	0.074	0.053	0.057	0.063	0.051	0.069	0.058	0.065	0.069	0.058	0.060
NOV '23		0.043	0.046	0.042	0.045	0.040	0.050	0.056	0.039	0.054	0.047	0.040	0.056	0.054	0.052	0.050	0.054	0.051
DEC '23		0.034	0.036	0.040			0.037	0.044		0.049	0.040	0.038	0.037	0.038			0.049	0.036

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 "---".
- 6. 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)

	2019 4 th Highest	Date	2020 4 th Highest	Date	2021 4 th Highest	Date	2022 4 th Highest	Date	2023 4 th Highest	Date
Anderson-North Street	0.063	6/3/2019	0.066	9/15/2020	0.063	8/25/2021	0.066	7/25/2022	0.064	8/10/2023
Auburn-Atwood Road	0.079	7/31/2019	0.083	9/1/2020	0.085	9/24/2021	0.075	7/23/2022	0.064	6/30/2023
Colfax-City Hall	0.072	7/31/2019	0.080	8/23/2020	0.076	8/24/2021	0.070	7/29/2022	0.068	8/24/2023
Colusa-Sunrise Blvd	0.053	6/12/2019	0.052	9/5/2020	0.061	8/30/2021	0.057	8/18/2022	0.059	5/18/2023
Cool	0.070	8/16/2019	0.078	8/23/2020	0.080	7/23/2021	0.074	7/25/2022	0.072	7/11/2023
Echo Summit	0.059	10/7/2019	0.073	9/15/2020	0.081	8/22/2021	0.064	7/14/2022	0.065	5/18/2023
Folsom-Natoma Street	I	_	=	_	0.085	9/24/2021	0.070	9/6/2022	0.071	4/27/2023
Grass Valley-Litton Building	0.072	7/25/2019	0.080	8/29/2020	0.090	9/10/2021	0.074	8/30/2022	0.076	7/11/2023
Jerseydale	0.071	8/3/2019	0.091	8/20/2020	0.081	6/17/2021	0.079	9/8/2022	0.060	8/24/2023
Lassen Volcanic Natl Park	0.059	9/15/2019	0.069	9/14/2020	0.075	8/23/2021	0.061	6/22/2022	0.061	7/12/2023
Placerville	0.071	8/16/2019	0.086	8/22/2020	0.075	9/24/2021	0.066	9/2/2022	0.067	4/27/2023
Red Bluff-Walnut Street	0.065	8/14/2019	0.061	9/6/2020	0.075	7/22/2021	0.066	6/22/2022	0.063	5/18/2023
Roseville-N Sunrise Ave	0.067	6/5/2019	0.070	8/23/2020	0.075	9/3/2021	0.070	7/23/2022	0.077	8/31/2023
Sonora-Barretta Street	0.069	9/14/2019	0.080	8/24/2020	0.068	8/25/2021	0.061	8/16/2022	0.067	7/2/2023
Sutter Buttes	0.065	7/31/2019	0.083	9/13/2020	0.077	9/4/2021	0.069	7/24/2022	0.068	8/31/2023
Tuscan Butte	0.066	6/12/2019	0.074	8/20/2020	0.077	5/13/2021	0.070	10/21/2022	0.069	10/20/2023
Yosemite Natl Park- Turtleback	0.068	8/3/2019	0.084	8/20/2020	0.080	8/24/2021	0.069	7/25/2022	0.068	7/16/2023
Yuba City-Almond Street	0.061	8/15/2019	0.066	9/5/2020	0.072	9/13/2021	0.058	6/23/2022	0.061	7/21/2023

Notes:

- 1. Surrounding monitors used for comparison with more than one seasonal site are only listed once.
- 2. Folsom-Natoma Street monitoring site shutdown 7/22/2019 for renovations and operation resumed 12/10/2020.
- 3. 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.
- 4. Months with no data or less than 75% data completeness are denoted by "---".

^{5.} 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		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 '19																		
FEB '19																		
MAR '19																		
APR '19																		
MAY '19																		
JUN '19		1			1		2	1						1				
JUL '19		4	2					2										
AUG '19		2	1		2			1	4		2		1	1				
SEP '19		1	1					1	1		2						1	
OCT '19																		
NOV '19																		
DEC '19																		
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		8	12	1	9		2	5	5	6	9	2
SEP '20	1	9	7		2	3		8	5	1	8		1		3	2	3	
OCT '20									6		2				1			
NOV '20																		
DEC '20																		

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		Red Bluff- Walnut Street	Roseville-N Sunrise Ave	Sonora- Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park- Turtleback	Yuba City
JAN '21																		
FEB '21																		
MAR '21																		
APR '21																		
MAY '21		1						2	1			1				1	1	
JUN '21		3	1		1		2	1	3		2					1	1	
JUL '21		13	6		3		8	8	4	2	3	3			1	4	3	
AUG '21		11	7		5	6	8	11	9	7	4	7	2	2	7	9	10	3
SEP '21		6	3		4		10	14	4		1	4	2		3	5	1	1
OCT '21							1	2	1						1		1	
NOV '21																		
DEC '21																		
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																		

TABLE 4 Continued

Month & Year	Anderson -North Street	Auburn- Atwood Road		Colusa- Sunrise Blvd	Cool	Echo Summit	Folsom- Natoma Street	Grass Valley- Litton Building	Jerseydale	Lassen Volcanic Natl Park	Placerville	I Walnut		Sonora- Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park- Turtleback	Yuba City
JAN '23																		
FEB '23																		
MAR '23																		
APR '23							1									1		
MAY '23													1					
JUN '23					1		1	1					1					
JUL '23	1				3		3	6				1	5	1	3	2		
AUG '23			1		1	1		2			1		1	1			1	
SEP '23			1															
OCT '23								1										
NOV '23																		
DEC '23																		

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 "---".
- 6. 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 '19																		
FEB '19																		
MAR '19								1									2	
APR '19	2				4		6	1			4	3	4	3	4	7		
MAY '19	6	2			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																		
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	19	16	21	9	12	17	17	17	15	8
OCT '20		12	6		6	2		9	19	2	11	2	5	11	10	7	12	2
NOV '20																		
DEC '20																		

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	Munaaat	Red Bluff- Walnut Street	Roseville-N Sunrise Ave	Sonora- Barretta Street	Sutter Buttes	Tuscan Butte	Yosemite Natl Park- Turtleback	Yuba City
JAN '21																		
FEB '21										1								
MAR '21		3	3				1	2		4	1							
APR '21		9	5		2		7		7	4	7	4		2	5	4	5	3
MAY '21	3	13	7		3	2	9	13	14	4	8	6	1	7	3	8	13	3
JUN '21	2	18	14		10	6	14	19	15	9	10	14	2	5	10	15	12	4
JUL '21	9	30	28	1	9	16	21	30	31	26	22	24	17	19	7	28	31	12
AUG '21	12	27	21	6	24	21	16	25	29	25	19	23	16	18	12	26	29	14
SEP '21	5	22	19	8	20		21	21	24	17	19	20	16	12	21	21	25	16
OCT '21		7	7		7		6	7	10	4	6	3	3	3	6	6	7	3
NOV '21																		
DEC '21																		
JAN '22																		
FEB '22								1										
MAR '22		2	1					2		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		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																		

TABLE 5 Continued

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

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 "---".
- 6. 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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX 75 Hawthorne Street San Francisco, CA 94105-3901

June 26, 2023

Paul Hellman Air Pollution Control Officer Shasta County Air Quality Management District 1855 Placer Street, Suite 101 Redding, California 96001

Dear Air Pollution Control Officer Hellman:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Shasta County Air Quality Management District's (ShCAQMD) discontinuation of the O₃ State/Local Air Monitoring Station (SLAMS) monitor at the Anderson – North Street site (Air Quality System (AQS) Site ID: 06-089-0007). A request letter for EPA approval of this network change was submitted to EPA on March 31, 2023. ShCAQMD communicated in their letter that closing the Anderson – North Street site would help the district reach their optimum network size based on data needs and available resources as described in 40 CFR Part 58, Appendix D. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. Discontinuation of the O₃ SLAMS monitor 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 (National Ambient Air Quality Standards) and if the requirements of appendix D to this part, if any, continue to be met." EPA has reviewed ShCAQMD's request and data associated with this monitor and concludes that the criteria contained in 40 CFR 58.14(c) are met as described below; EPA therefore approves discontinuation of the O₃ SLAMS monitor at the Anderson – North Street site.

According to certified data submitted to EPA's AQS, the Anderson – North Street O₃ monitoring site was in attainment of the 2015 8-hour O₃ NAAQS based on the five most recent design values (design values 2018-2022, encompassing data years 2016-2022); 2018-2020 design values for the 2015 8-hour O₃ NAAQS were invalid due to incomplete data in 2018 and 2019.¹

1

¹ The site had incomplete quarters including Q4 in 2018 and Q1 in 2019 due to quality assurance/instrument issues that resulted in invalid 2018, 2019, and 2020 design values for the 2015 8-hour O₃ NAAQS. Based on the historical data record, we would not expect exceedances to have occurred during the periods of missing data.

Incomplete 2018 and 2019 data were consistent with the historical trend and generally continued to show concentrations below the levels of the 2015 8-hour O₃ NAAQS.²

ShCAQMD currently operates two other SLAMS O₃ monitoring sites in the Redding, CA MSA, exceeding 40 CFR 58 Appendix D minimum monitoring requirements for the area. The Anderson-North Street site tracks well with the other O₃ monitors in the area and has the same attaining design value in 2022 as the Shasta Lake (AQS ID: 06-093-2001) monitor (0.065 ppm). The Anderson – North Street site has consistently measured concentrations less than or equal to the Redding-Health Dept Roof (AQS ID: 06-089-004) and Shasta Lake sites in the Redding, CA metropolitan statistical area (MSA). This site is not needed to fulfill the 40 CFR 58 Appendix D requirements for a maximum O₃ concentration site in a metropolitan area and it is not required by the EPA Regional Administrator. Therefore, the closure of this monitoring site will not prevent ShCAQMD from meeting 40 CFR Appendix D requirements and does not compromise data collection needed for implementation of the O₃ NAAQS.

Based on these analyses, EPA approves ShCAQMD's discontinuation of the Anderson – North Street O₃ SLAMS monitor. Please include this letter and the relevant monitor and site information in the next CARB annual monitoring network plan.

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

Sincerely,

DENA VALLANO Digitally signed by DENA VALLANO Date: 2023.06.26 06:36:28 -07'00'

Dena Vallano Manager, Monitoring and Analysis Section

cc (via email): Monica Stant, ShCAQMD
Rob Stahl, ShCAQMD
Chad Peterson, ShCAQMD
Jin Xu, California Air Resources Board (CARB)
Sylvia Vanderspek, CARB
Kathleen Gill, CARB
Eric McDougall, CARB
Manisha Singh, CARB
Louise Sorenson, CARB
Melissa Niederreiter, CARB
Aman Bains, CARB

² The site measured four exceedances of the 2015 8-hour O₃ NAAQS in August 2018 and one exceedance in September 2020. These exceedances occurred during the time several active wildfires were burning in Northern California which may have contributed to unusually high concentrations at the monitoring site.

June 8, 2023

Dena Vallano, PhD Manager, Air Quality Monitoring & Analysis Section U.S. EPA Region 9 75 Hawthorne Street Mail Code: AIR-7 San Francisco, California 94104



RE: Notification of Air Monitoring Relocation from Phelan (Site ID: 060710012) to Lucerne Valley (Site ID: 060710013).

Dear Ms. Vallano,

The Mojave Desert Air Quality Management District (District) is submitting this notification to the U.S. Environmental Protection Agency (U.S. EPA), regarding the relocation of the Phelan air monitoring station, Site ID: 060710012, to the District's Lucerne Valley site, Site ID: 060710013. As you are aware the Phelan air monitoring station instrumentation includes an ozone monitor and meteorological equipment while the Lucerne Valley site currently only monitors PM10 as well as meteorological equipment. The District plans to relocate the Phelan equipment to the Lucerne valley site to create a full SLAMS site at the later location. This relocation is justified based upon the provisions of 40CFR Part 58.14 (6) due to logistical problems beyond the District's control as explained below. The siting of the ozone monitor at the Lucerne Valley will conform to the siting criteria of 40 CFR Part 58 Appendix E.

The relocation of the Phelan site is necessary as the owner of the existing site notified the District that the property use agreement would be terminated, effective December 1, 2023 (see attachment A letter). As the operation of the Districts air monitoring network requires significant infrastructure and resources, the District intends to relocate the Phelan ozone monitor to the existing Lucerne Valley SLAMs site. Both locations are each situated in rural, low income and highly impacted communities under AB1550 on the outskirts of the Victor Valley area, and are both currently categorized as population site type and neighborhood spatial scale¹. While the proposed site is further than four kilometers from the original site, both sites are similarly located, with nearby areas characterized by residential and commercial land use as well as undeveloped land. The sources that influence ozone measurements at the Phelan site are largely transported ozone, on-road sources, and area sources and are not representative of a neighborhood scale. There are no major stationary sources in the Phelan area and only a handful of minor sources. Sources

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR

14306 Park Avenue, Victorville, CA 92392-2310 • 760.245.1661 • Fax 760.245.2022 • www.MDAQMD.ca.gov • @MDAQMD

¹ CARB Annual Network Plan, July 2022.

that influence ozone at the Lucerne site are similarly transported ozone, on-road sources, area sources and include minor and major sources².

Historically, air quality monitored at the Phelan air monitoring stations has been a poor representation of the impacts from local sources on air quality in the Victor Valley and the MDAQMD. The MDAQMD, specifically the Victor Valley area, is located in inland Southern California, adjacent to and directly downwind from the greater Los Angeles area. Due to the prevailing wind direction and topography, the MDAQMD is overwhelmingly impacted by transported Ozone and its precursors³, from both the greater Los Angeles area and the San Joaquin Valley. These transport couplings have been officially recognized by California Air Resources Board (CARB).⁴

As a result of transport, the Phelan, as well as Hesperia air monitoring stations, which are situated just beyond the top of the Cajon and West Cajon Valleys and are the nearest monitoring locations to the South Coast Air Quality Management District, continue to report the highest levels of ozone in the MDAQMD. Thus, continuing to locate an air monitoring station in Phelan is not representative of the stationary sources operating within the MDAQMD. The Hesperia air monitoring site (site ID#060714001) will continue to operate and provide a marker for the continued influences of the pollution emitted from the greater Los Angeles area.

As shown below in Table 1, the air monitoring stations most impacted in the Victor Valley area by transported ozone are Joshua Tree, Phelan, and Hesperia.

² Major sources include Mitsubishi Cement (located ~5 miles away in an upwind direction) and Specialty Minerals (located ~ 3 miles away in an upwind direction).

^{3 17} Cal Code Regs. §70500(c)

⁴ "Ozone Transport: 2001 Review," April 2001, CARB identifies the South Coast Air Basin as having an overwhelming and significant impact on the Mojave Desert Air Basin (which includes the Mojave Desert) and the San Joaquin Valley as having an overwhelming impact on the MDAB.

Table 1- MDAQMD ozone design value information⁵:

Station Name	AQS Station Number	5-year weighted 2018 Design Value	Base 2032 Design Value	2032 with controls Design Values*
Barstow**	060710001	78.3	71.3	68.7
Phelan-Beekley Road and Phelan Road	060710012	87.0	75.8	70.8
Victorville-14306 Park Avenue	060710306	78.7	68.6	63.9
Hesperia-Olive Street	060714001	85.0	74.3	68.8
Joshua Tree- National Monument**	060719002	88.0	74.4	68.2
Lancaster-43301 Division Street	060379033 (LA County)	77.3	67.9	64.2

^{*} Emission controls include South Coast AQMD's defined measures for stationary sources from the Draft Final 2022 AQMP and CARB's measures for mobile sources from the 2022 State SIP Strategy. Emissions reductions reflected in this scenario is summarized in Table 4-18 of the Draft Final 2022 AQMP.

Relocating the Phelan ozone monitor to the Lucerne Valley station will continue to provide for a robust network within the MDAQMD as well as being located in a low-income community according to the CARB priority populations CES4 2022 map ⁶.

The District operates a comprehensive monitoring network, collecting ambient concentration data for a wide variety of pollutants including ozone, PM_{2.5}, PM₁₀, NO₂, and H₂S (state criteria pollutant). Although most sites monitor for multiple pollutants, not all pollutants are monitored at every site because the data needs vary by locale. Ambient data collected by the District is collected in accordance with 40 CFR Part 58, including population and severity of the air quality problem. The current breakdown of sites located within the boundaries of MDAQMD is listed below in Table 2. Relocating the ozone monitor from Phelan to Lucerne will not change the number of monitors in the MDAQMD overall.

^{** 5-}year weighted design values for the monitors at Barstow and Joshua Tree are calculated without excluding any fire events

⁵ MDAQMD Federal 70 ppb Ozone Attainment Plan, January 23, 2023

⁶ California Climate Investments Priority Populations 2022 CES 4.0.

Table 2, Pollutants Monitored in the MDAQMD

Site (AQS ID)	NO2	Ozone	PM10	PM2.5	H2S
Barstow (06-071-0001)	1	1	1		
Blythe-Murphy (06-065-9003)**		1			
Hesperia (06-071-4001)		1	1		
Joshua Tree- Black Rock (06-071-9002)*		1			
Joshua Tree-Pinto Wells (06-065-1004)*			1		5
Lucerne Valley (06-071-0013)			1		
Mojave NP (06-071-1001)*		1			700
Phelan (06-071-0012)		1	200		
Trona (06-071-1234)	1	1	1		1
Victorville (06-071-0306)	1	1	1	2	

^{*} These sites are operated by National Park Service (NPS).

According to the CARB Annual Network Plan (ANP), all MDAQMD sites are located within the Riverside-San Bernardino-Ontario CBSA (CBSA), which is shared with the neighboring South Coast Air Quality Management District (SCAQMD). The CARB ANP shows that all minimum Federal ozone monitoring objectives are met in the CBSA, noting that the Ozone Design Value site is located in the SCAQMD in Redlands and the minimum sites requirement for three (3) sites is met as the CBSA is reported as having nineteen (19) ozone sites.

Both the Phelan site and Lucerne Valley sites are classified as population exposure type in the CARB ANP. For criteria pollutants, the relocation of the Phelan Ozone monitor again does not interfere with the CBSA meeting the requirements of 40 CFR Part 58, Appendix D.

The Phelan site is located in an unincorporated community in San Bernardino County, situated below the foothills of the Angeles National Forest. Phelan is part of the tri-community which include Wrightwood and Pinon Hills. The tri-community area is situated about 8 miles south of the MDAQMD/SCAQMD border and the Cajon Pass which is a major transport route for locomotives and roadways. The Phelan site is located about 16 miles west-south west of the Victorville Site and about 17 miles west of the Hesperia site

The Phelan site monitors for ozone and also collects meteorological data. The site's gas monitor is a Teledyne T400 ozone gas analyzer. This unit is setup with a sample train that draws through a cane styled inlet tube into a manifold. The manifold is introduced with a nightly scheduled challenging gas which is generated with an Environics 9100 and Teledyne T701 Zero air generator. Meteorological data is obtained with the use of a MetOne AIO weather sensor. All data at the Phelan site is collected and processed using an Agilaire 8872 data logger and is sent to a central server at the MDAQMD offices.

The Lucerne Valley site monitors for PM10 and collects meteorological data. The site's particulate matter monitoring is completed with a MetOne BAM 1020 unit. The meteorological data is obtained with the use

^{**}These sites are operated by CARB.

of a MetOne AIO weather sensor. Once again, all data at the site is collected and processed using an Agilaire 8872 data logger and is sent to a central server.

The Lucerne Valley site is located at the Lucerne Valley Unified School District, about 4.2 miles away from the center of Lucerne Valley, an unincorporated community in San Bernardino County, and surrounded by the Granite Mountains, Ord Mountains and San Bernardino Mountains. The Lucerne site is located about 25 miles east of the Victorville site. See Attachment B for photographs of the Lucerne site.

Upon relocation, the Lucerne Valley ozone monitor system will be configured similarly to the current Phelan site monitor. Ozone will continue to be sampled via a Teledyne T400 ozone gas analyzer. The sample train will be drawn through a cane styled inlet tube. The manifold will also be introduced with a nightly scheduled challenging gas which is generated with an Environics 9100 and Teledyne T701 Zero air generator.

Additionally, further information supporting the relocation is presented in Attachments B through G; including, satellite imagery, wind rose data, roadways analysis, site metadata as well as measured ozone comparison amongst the sites.

Should you have any questions or need additional information regarding this notification please contact Chris Anderson, Planning/Air Monitoring Supervisor, at (760) 245-1661, extension 1846, or by email at: canderson@mdagmd.ca.gov.

Sincerely,

Brad Poiriez APCO

Email CC:

vallano.dena@epa.gov

Sheila Tsai, U.S. EPA R9, Tsai. Sheila@epa.gov

Alan De Salvio, MDAQMD Deputy APCO, adesalvio@mdaqmd.ca.gov

Grace Tuazon; grace.tuazon@arb.ca.gov

Chris Anderson, canderson@mdaqmd.ca.gov

ATTACHMENT A- Letter from Phelan Pinion Hills Community Special District



MECEIVED

A 4176 Warbler Road P.O. Box 294049 Phelan, CA 92329 P (760) 868-1212 F (760) 868-2323 W www.pphcsd.org

23 MAY 30 AM 8: 41

May 24, 2023

Jean Bracy Director of Administrative Services MDAQMD 14306 Park Ave. Victorville, CA 92392-2310

Dear Ms. Bracy,

This letter is to request termination of our agreement regarding the air monitoring station located on our property at Phelan and Beekley Road in Phelan, CA 92371. For our staff to better utilize the site, we kindly request that all equipment owned and operated by MDAQMD be removed no later than December 1, 2023. We thank you for your cooperation and would be happy to assist you in providing a different District property, should you so desire.

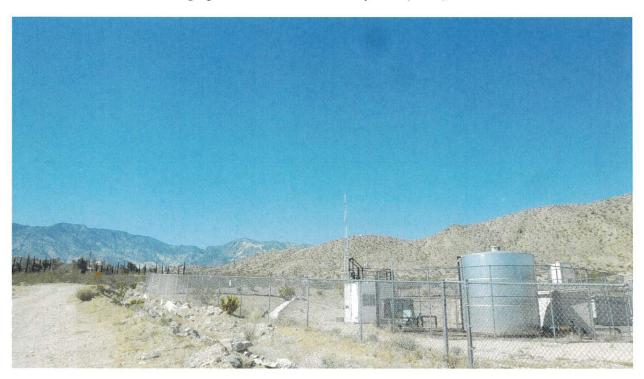
If you have any questions, or require additional information, please contact me at (760) 868-1212 x309 or at ksevy@pphcsd.org.

Sincerely,

Kirn Sevy (formerly Ward)

District Clerk

ATTACHMENT B - Photographs of the Lucerne Valley Site (2023):



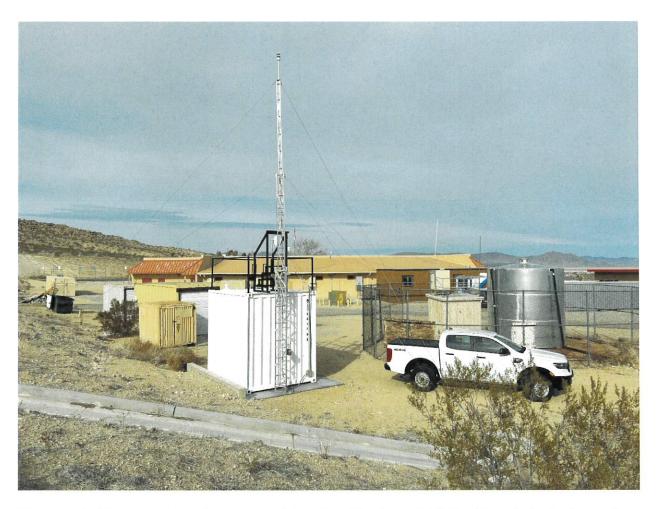
Photograph 1: East fence line of the site facing south-southwest.



Photograph 2: Facing east towards the site.



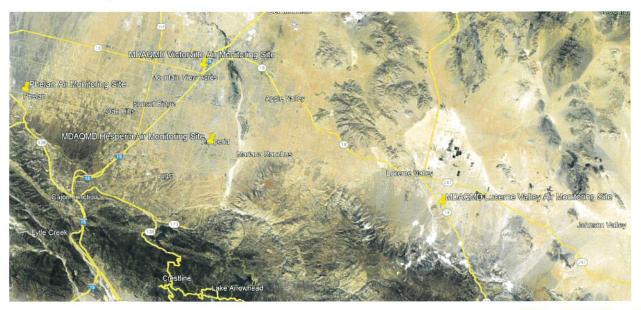
Photograph 3: Facing north and towards town of Lucerne Valley.



Photograph 4: Facing west-northwest towards the site with school district buildings in the background.

ATTACHMENT C – Satellite Images of MDAQMD air monitoring network

The MDAQMD's Air Monitoring Network in or around the Victor Valley Area. A visual prospective to show the coverage of the MDAQMD's network.



Satellite Image 1: Shown here is a comparison between the Lucerne Valley site and the Phelan site within the Victor Valley area. These sites are located about 39 miles apart.



Satellite Image 2: Lucerne Valley site viewed at about 600 ft elevation. Note residences to the south.

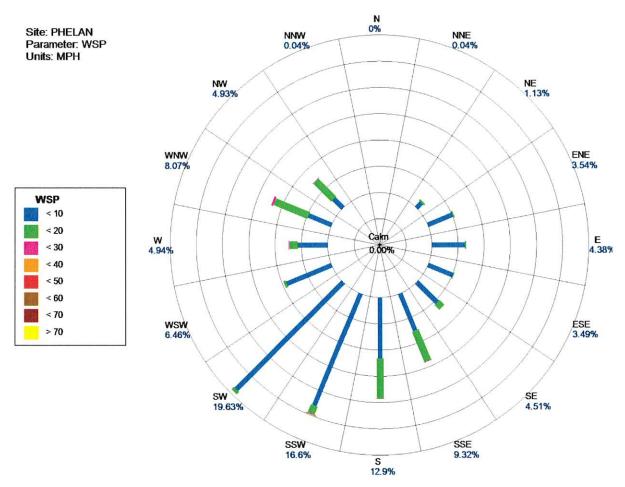


Satellite Image 3: Phelan site viewed at about 6000 ft elevation. Note residences to the northeast, west, and south. Directly south is the local SB County fire station.

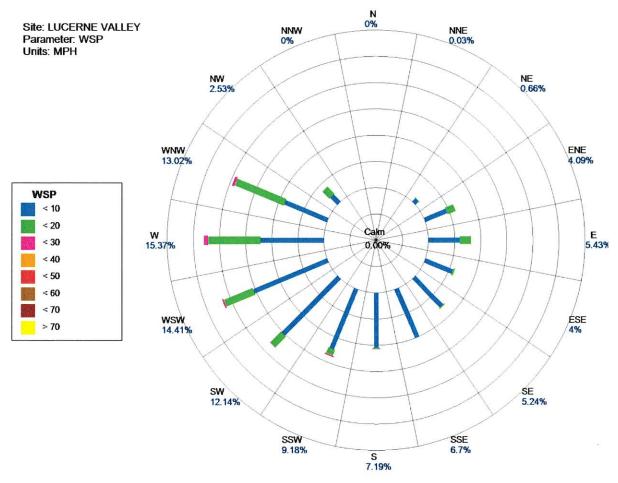


Satellite image 4: Distance from Lucerne Valley site to Highway 18. Note the school district buildings onsite.

ATTACHMENT D – Phelan Wind Rose Data:



Period: 1/1/2022-12/31/2022



Period: 1/1/2022-12/31/2022

ATTACHMENT E – Minimum Spacing from Roadways Criteria Evaluation

The minimum spacing criteria from probe to roadway is 20 meters (per Table E-1 of Appendix E to Part 58) based on annual average daily traffic trips on Highway 18 of 10,000 vehicles per day (see Table 3). The Lucerne Valley probe will be located about 345 meters away from Highway 18; therefore, the minimum spacing from roadways criteria is met.

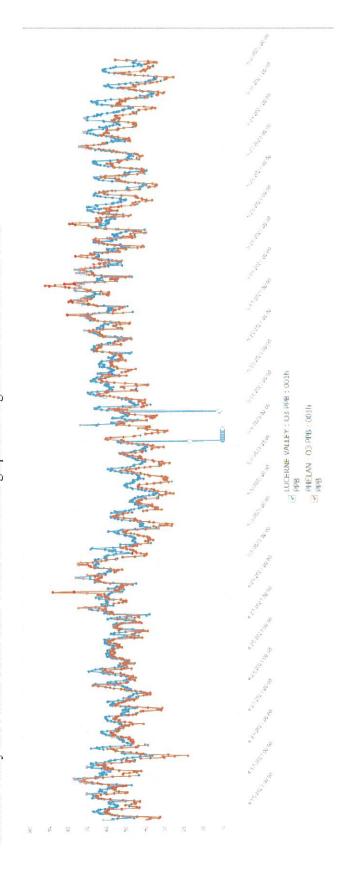
Table 3- Daily Roadway Traffic*

DISTRICT	ROUTE	4 ROUTE_SFX	COUNTY	→ PM_PFX	M C	→ PM_SFX	LOCATION DESCRIPTION	BACK_PEAK_HOUR	BACK PEAK MADT	BACK_AADT	AHEAD_PEAK_HOUR	AHEAD_PEAK_MADT	AHEAD_AADT
08	018		SBD		44.319		JCT. RTE. 38 NORTHEAST	1550	11200	8000	1100	7700	5500
08	018		SBD		46.55		BIG BEAR LAKE, BLUE JAY ROAD	1100	7800	5600	1550	10800	7700
08	018		SBD		48.07		BIG BEAR LAKE, MILL CREEK ROAD	2300	16100	11500	2150	15100	10800
08	018		SBD		48.362		LAKEVIEW DRIVE	2150	15100	10800	2400	16800	12000
08	018		SBD		49.117		BIG BEAR BL AT PINE KNOT	3100	21700	15500	6300	44000	31500
	018		SBD		50.82		MOONRIDGE ROAD	6500	45500	32500	4700		23500
08	018		SBD		51.61		STANFIELD CUTOFF	4700	33000	23500	4100		
	018		SBD		53.917		JCT, RTE, 38 EAST	3300		16400			
	018		SBD		54.537		JCT. RTE. 38 WEST	3050				6600	5800
	018		SBD		58.16		HOLCOMB VALLEY ROAD	1200	5000	4400	730	3100	2700
	018		SBD		58.44		BALDWIN LAKE ROAD	730	3100	2700	950	4000	3500
	018		SBD		65.756		MARBLE CANYON ROAD	950	4000	3500	1400	5800	5100
	018		SBD		73.783		LUCERNE VALLEY, JCT. RTE. 247	2000	8300	7300	950	10300	
	018		SBD		84.325		BEAR VALLEY CUTOFF	1200				6300	5800
	018		SBD		88.871		APPLE VALLEY, YUCCA LOMA-NAVAJO ROAD	1350				23800	
	018		SBD		90.936		APPLE VALLEY INN ROAD	2650					
08	018		SBD		94.39		APPLE VALLEY ROAD	3500	38000	35000	4900	53000	49000

^{*2021} Traffic Volumes: Annual Average Daily Traffic (AADT) Caltrans Traffic Census Program

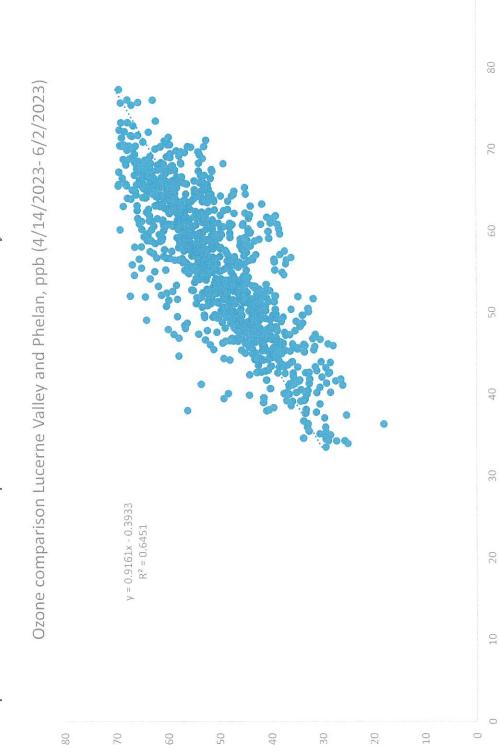
ATTACHMENT F -Comparison of ozone measurements between the Lucerne Valley and Phelan Site and the Hesperia Site and the Phelan Site.





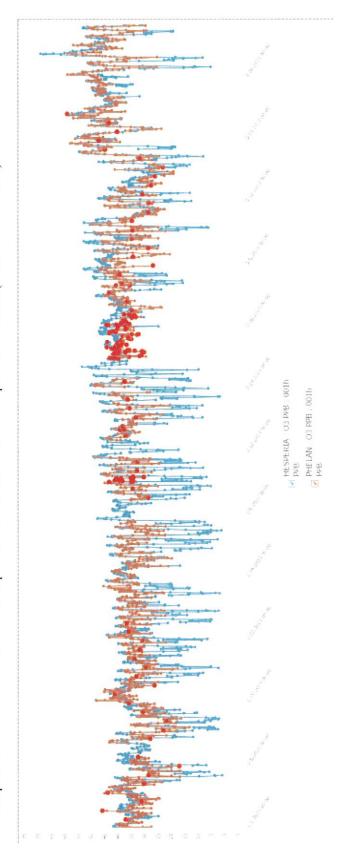
*zero value data points are under review.

The comparison below shows the relationship between measurements at Lucerne Valley and Phelan.

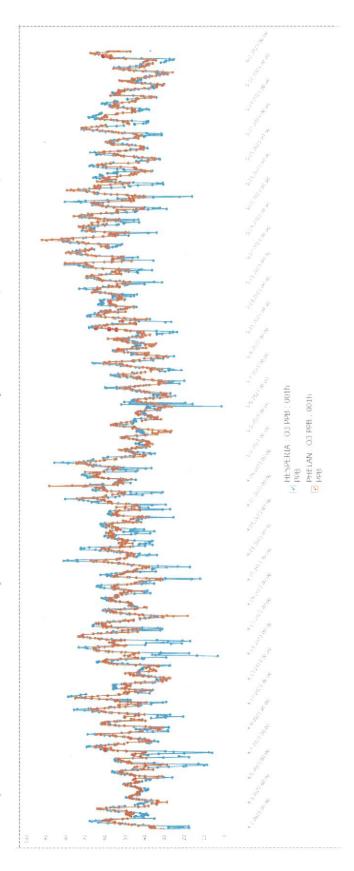


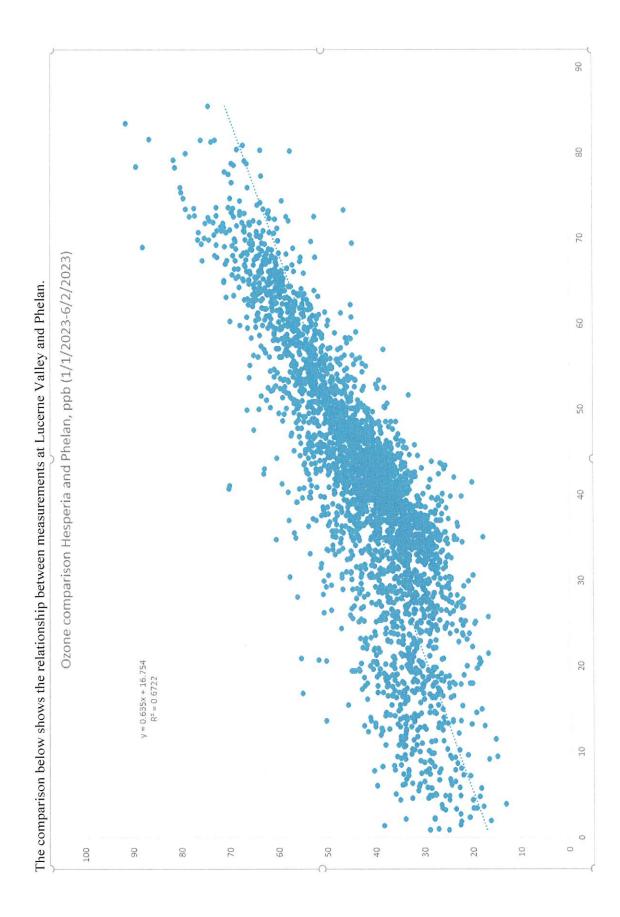
06

The comparison below shows the relationship between measurements at Hesperia and Phelan (1/1/2023-3/31/2023).



The comparison below shows the relationship between measurements at Hesperia and Phelan (4/1/2023-6/2/2023).





ATTACHMENT G - Lucerne Valley Site Characteristics (from CARB ANP)

Local Site Name:	Luceme Valley - Middle School
AOS ID:	06-071-0013
GPS Coordinates:	34.41008, -116.90687
Street Address:	8560 Aliento Rd. Luceme 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	Prinary
Parameter Code	81102
Basic monitoring objective(s)	NAAQS
Site type(s)	Population Exposure
Monitor type(s)	SLAMS
Network affiliation(s)	NA
Instrument manufacturer and model	Met One BAM 1020
Method code	122
FRINFEMIARMIOTher	FEM
Collecting Agency	Mojave Desert AOMD
Analytical Lab (i.e. weigh lab, toxics lab, other)	MA
Reporting Agency	Mojave Desert AQMD
Spatial scale	Neighborhood
Monitoring start date	1/14/2015
Current sampling frequency	Continuous
Required sampling frequency including exceptional events	NA
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)	NA
Distance from obstructions not on roof (meters)	No obstructions
Height above probe for obstructions not on roof (meters)	NIA
Distance to nearest tree drip line (meters)	N/A (No trees)
Distance to furnace or incinerator flue (meters)	NA
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)	NA
Residence time for reactive gases NO/NO2/NOy, SO2, O3, PAMS: VOCs, Carbonals (seconds)	NA
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	NIA
Frequency of flow rate verification for automated PM analyzers	Monthly
Frequency of one-point QC check for gaseous instruments	NA
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	NVA
Date of two semi-annual flow rate audits conducted in the past calendar year for	TODING PRODUCTION OF THE PRODU
PM monitors	U3/24/2U21 US/1/0/2U21

Phelan Alternative Site Evaluation

February 1, 2024

We appreciate the continued collaboration with CARB and USEPA in finding an alternative location for our ozone air monitoring site. Due to the rural nature of the unincorporated community of Phelan, identifying suitable monitoring sites, which also meet the necessary security and operational criteria for hosting an official SLAMS site, including local or nearby restroom facilities for staff, has proven challenging. After unsuccessful attempts to find an appropriate site in Phelan, the ozone monitor has been relocated to the existing SLAMS PM10 site in Lucerne Valley (#0013).



To meet data completeness requirements, ozone monitoring has been operational in Lucerne Valley since January 1, 2024, and the reconfigured site is scheduled for its first audit on March 20th, 2024. We are seeking the support and endorsement from CARB and USEPA for this relocation.

We noted that USEPA suggested locations for consideration in Hesperia, and previously, we have also tried to find a location in the outer regions of Hesperia but were unsuccessful in finding a suitable site. Fortunately, we already operate a SLAMS in Hesperia that monitors PM10, Ozone and metrological data. This site is classified as a population exposure site in the Annual Network Plan (ANP), along with Lucerne Valley and the decommissioned Phelan site within the Riverside-San Bernardino-Ontario Core Based Statistical Areas (CBSA), where Redlands is the ozone design value site.

Prevailing winds along our border with South Coast Air Quality Management District (SCAQMD) transports ozone in a northerly or north by northwest direction, from SCAQMD's most heavily ozone concentrated areas in the Inland Empire over the San Bernardino Mountain range into the High Desert. Modeling projections (refer to figure 3) suggest that the heaviest concentrations of ozone in the MDAQMD will be primarily situated east of the I-15 Freeway at the border of our Jurisdiction with South Coast Air Quality Management District. This puts the bulk of the transported ozone in Hesperia and neighboring communities. Even without the Phelan ozone site relocation, we anticipate Hesperia to become our high design value site for ozone in the MDAQMD.

In our relocation efforts, we conducted a comprehensive evaluation of air quality data statistics and explored alternative sites for ozone monitoring. Below, you will find maps depicting the assessed locations, a comparison of design values, and days exceeding 70 ppb of Ozone for the 8-Hour standard at the Phelan and Hesperia sites over the last decade, along with a detailed evaluation of potential sites, sorted by their distance in kilometers from the decommissioned Phelan Air Monitoring Site (#0012):

Maps of Evaluated Locations

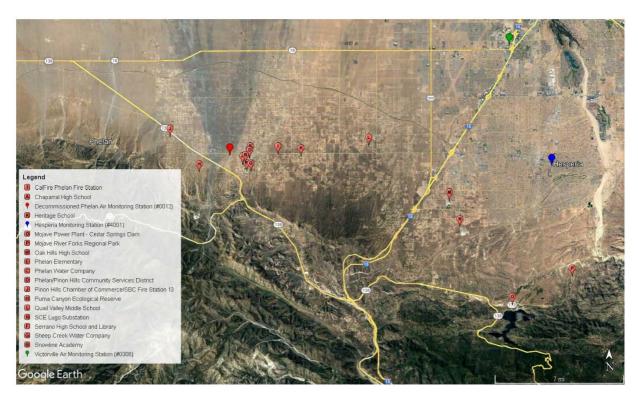


Figure 1 - Image of all locations evaluated, including Phelan (decommissioned), Hesperia, Lucerne Valley and Victorville monitoring sites.



Figure 2 - Locations within 4 km of decommissioned Phelan air monitoring site.

2023 Predicted Ozone Design Values

Modeling projections indicate that by 2032, had Phelan remained operational, Hesperia would have surpassed it as the high design value site for MDAQMD.

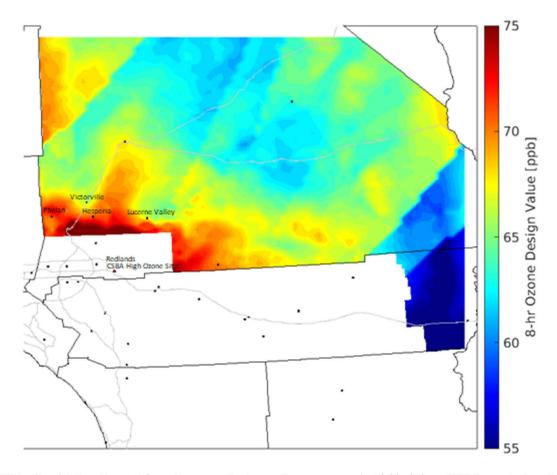


Figure 3 - 2032 Predicted 8-Hour Ozone Values. Ozone monitoring stations are notated with black dots, CSBA Ozone Designation Site in Red.

Design Values and Exceedance Days

Design values have generally followed a similar trend between Phelan and Hesperia deviating primarily during years of wildfire influence.

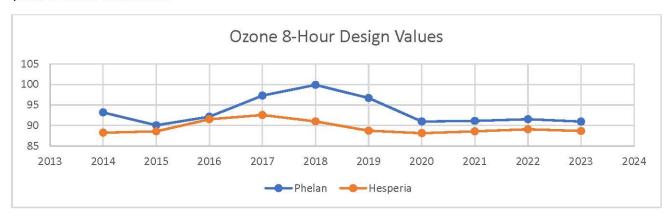
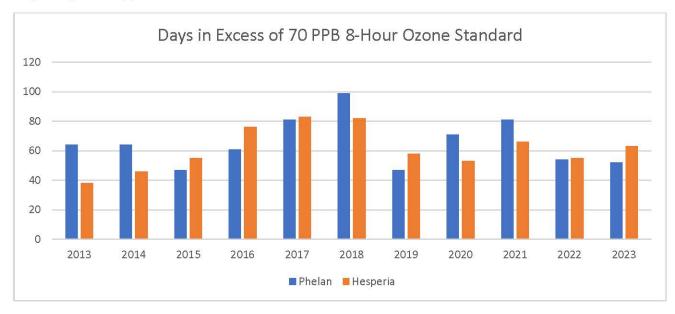


Figure 4 - Design Value Data, Hesperia and Phelan 2014-2023

With the exception of years impacted by wildfires, Hesperia consistently exceeds Phelan in the number of days surpassing the 70 ppb 8-Hour Ozone Standard.



Evaluated Phelan Ozone Air Monitoring Relocation Sites

#	Distance	Site Name	Site Address	GPS Coordinates
Α	1.33 km	Chaparral High School	9258 Malpaso Rd, Phelan	34.417768°, -
				117.577830°

All the schools on this list pose accessibility challenges due to their enhanced campus safety practices. Schools also create security concerns for our equipment. We have had problems with theft and vandalism in various schools throughout the District with our PurpleAir low cost sensor program. Considering the cost and sensitivity of the air monitoring equipment, the history of problems at various schools, and present-day campus safety protocols, hosting a monitor at a school creates a heightened level of apprehension for the District. Additionally, campus space is limited and the compromised accessibly of campus spaces restricts 24/7 access of staff from being onsite to access monitoring equipment. Continuous access is crucial for timely response and maintenance, especially in situations requiring immediate attention.

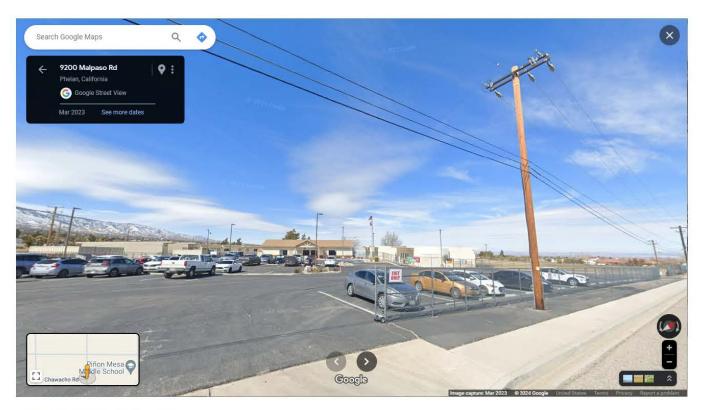


Figure 5- Chaparral High School

#	Distance	Site Name	Site Address	GPS Coordinates
В	1.56 km	Snowline Academy	3919 Nielson Rd, Phelan	34.408223°, -
				117.575311°

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols.



Figure 6 - Snowline Academy

#	Distance	Site Name	Site Address	GPS Coordinates
С	1.67 km	Phelan Water Company	4176 Warbler Rd, Phelan	34.422577°, -
				117.571275°

Not secure - not fully fenced (No Gate). No power, unpaved facility, frequent use of large diesel trucks.

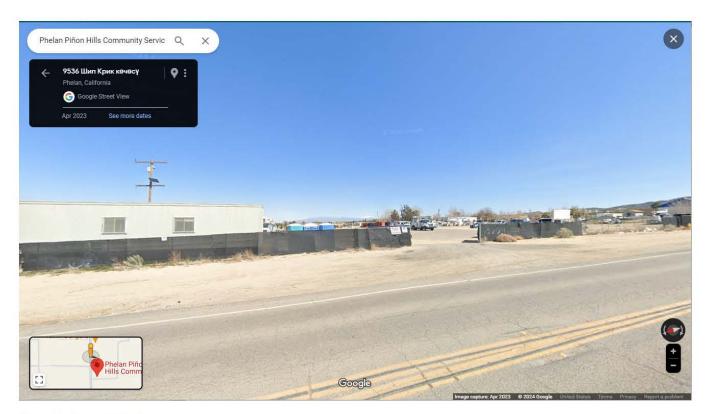


Figure 7 - Phelan Water Company

#	Distance	Site Name	Site Address	GPS Coordinates
D	1.71 km	Phelan Piñon Hills Community	4176 Warbler Rd, Phelan	34.422577°, -
		Services District		117.571275°

Not secured, no fencing. 24/7 access not available.



Figure 8 - Phelan/Pinon Hills Community Services District

#	Distance	Site Name	Site Address	GPS Coordinates
Е	1.83 km	Phelan Elementary	4167 Phelan Rd, Phelan	34.425615°, -
				117.570634°

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols.

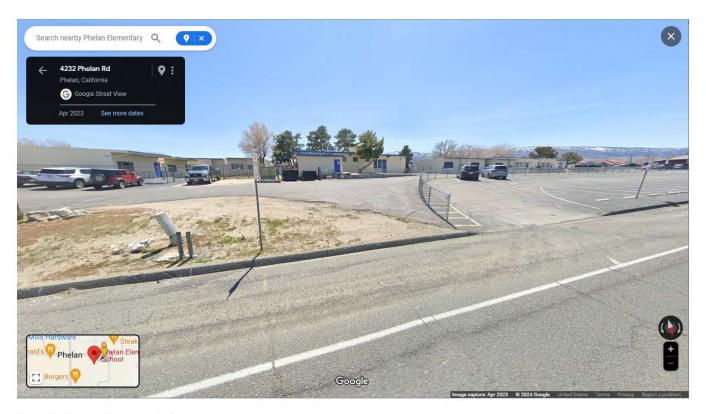


Figure 9 - Phelan Elementary School

#	Distance	Site Name	Site Address	GPS Coordinates
F	1.92 km	Serrano High School & Public	9292 Sheep Creek Rd, Phelan	34.412432°, -
		Library		117.573981°

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols.

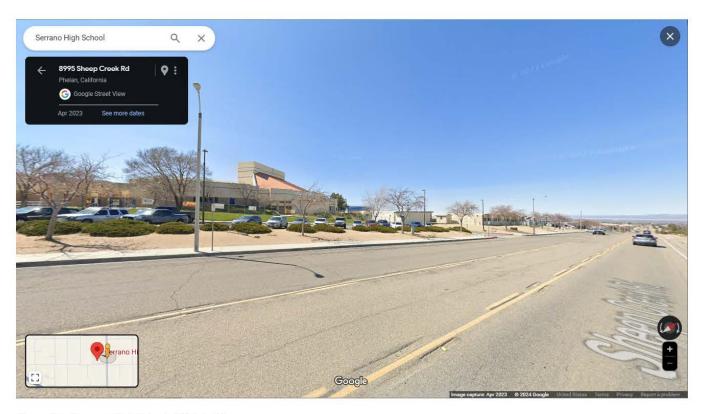


Figure 10 - Serrano High School & Public Library

#	Distance	Site Name	Site Address	GPS Coordinates
G	2.37 km	Sheep Creek Water Co.	4200 Sunnyslope Rd, Phelan	34.412058°-
				117.570083°

A lot of heavy-duty equipment activity on site. Abundant amount of construction PM. Non-paved, non-county-maintained access roads. Site is fenced, but not secure as fencing needs repair.



Figure 11 - Sheep Creek Water Company

#	Distance	Site Name	Site Address	GPS Coordinates
Н	3.91 km	Puma Canyon Ecological Reserve	Sand Canyon Rd, Pinon Hills	34.411606°, -
				117.619051°

The study center is located on non-maintained unpaved road approximately 1km from nearest paved road. In addition, the study center is located within the conservancy atop a hillside with a steep unpaved driveway about 0.3 kilometers which could prevent access in the wintertime due to road conditions. This is a small educational center available by appointment only. Does not allow for 27/7 access. The site is not completely secured by fencing which is concerning for potential vandalism. This is the same site as Pinon Hills Transition Habitat Conservancy and Pinon Hills Transition Habitat Study Center.



Figure 12 - Puma Canyon Ecological Reserve

#	Distance	Site Name	Site Address	GPS Coordinates
J	4.2 km	CAL Fire BDU – Phelan Fire	9600 Centola Rd, Phelan, CA	34.427609393147556,
		Station	92371	-117.54464618075379

Unpaved roadways. On site generator and above ground fuels storage tank. Frequent use of diesel-powered chipper/grinder.



Figure 13 - CAL Fire BDU - Phelan Fire Station



Figure 14 - Cal Fire Entrance



Figure 15 - Cal Fire Equipment



Figure 16 - Cal Fire Above Ground Storage Tank



Figure 17 - Cal Fire Equipment

#	Distance	Site Name	Site Address	GPS Coordinates
J	5.45 km	Piñon Hills Chamber of	10433 Mountain Rd,	34.439000 -
		Commerce/SBC Fire Station 13	Piñon Hills, CA 92372	117.647000

Facility not secured/fenced. No availability of infrastructure to house air monitoring equipment.



Figure 18 - Pinon Hills Chamber of Commerce/SBC Fire Station #13

#	Distance	Site Name	Site Address	GPS Coordinates
К	6.13 km	Heritage School	9542 Wilson Ranch Rd,	34.42451833156377, -
			Phelan, CA 92371	117.52269083502995

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols. This campus is also located adjacent to the District School Bus Yard.



Figure 19 - Heritage School & Bus Yard

#	Distance	Site Name	Site Address	GPS Coordinates
L	12.18 km	Quail Valley Middle School	10058 Arrowhead Rd, Phelan,	34.43357541364628, -
			CA 92371	117.45723930506549

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols.



Figure 20 - Quail Valley Middle School

#	Distance	Site Name	Site Address	GPS Coordinates
М	19.18 km	Oak Hills High School	7625 Cataba Rd, Oak Hills, CA	34.389926319849316,
			92344	-117.38475695006144

This is a school site which creates security concerns for vandalism of the equipment. This site also does not allow for 24-Hour access to the monitoring equipment due to present-day campus safety protocols. Lots of bus traffic, only 9.5 km from the Hesperia Air Monitoring site as opposed to 19.3 km from discontinued Phelan site.

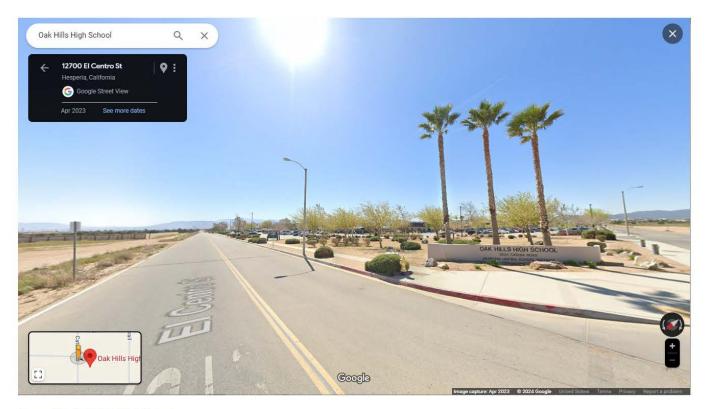


Figure 21 - Oak Hills High School

Ī	#	Distance	Site Name	Site Address	GPS Coordinates
ĺ	N	20.94 km	SCE Lugo Substation	13301 Whitehaven St, Hesperia	34.36839746675596,
					-117.3717125185596

24/7 access is not available. High Voltage Power Lines on Premises. Only 9.23 km from Hesperia AM site as opposed to 21.1 km from the discontinued Phelan site.



Figure 22 - SCE Lugo Substation

#	Distance	Site Name	Site Address	GPS Coordinates
0	27.7 km	Mojave Power Plant –	CA HWY 173, Hesperia	34.308022°,
		Cedar Springs Dam		-117.323373°

High security at site, 24/7 access not available. Network connection not available.



#	Distance	Site Name	Site Address	GPS Coordinates
Р	31.6 km	Mojave River Forks	18395 CA HWY 173, Hesperia	34.330241°
		Regional Park		-117.266814°

Not secured, no fencing.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX 75 Hawthorne Street San Francisco, CA 94105-3901

December 20, 2021

Christopher Collins Air Monitoring Supervisor Mojave Desert Air Quality Management District 14306 Park Ave Victorville, CA 92392

Dear Christopher Collins:

This letter provides the U.S Environmental Protection Agency's (EPA) review and approval for the Mojave Desert Air Quality Management District (MDAQMD) discontinuation of the sulfur dioxide (SO₂) State/Local Air Monitoring Station (SLAMS) monitors at the Victorville (Air Quality System (AQS) ID: 06-071-0306) and Trona (AQS ID: 06-071-1234) sites, and discontinuation of the carbon monoxide (CO) SLAMS monitors at the Victorville and Barstow (AQS ID: 06-071-0001) sites. A request for EPA approval of these network changes was submitted to EPA on November 17, 2021. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors.

Discontinuation of the CO and SO₂ SLAMS monitors was reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1). According to certified data submitted to EPA's AQS, the Victorville and Trona SO₂ monitors were in attainment of the 2010 1-hour SO₂ National Ambient Air Quality Standards (NAAQS) from 2016 through 2020. The EPA has determined that, based on design values from 2016-2020, there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at these sites. Preliminary 2021 data are consistent with the historical trend and continue to show low concentrations. These SO₂ monitors are not specifically required by an attainment or maintenance plan and are not located in a nonattainment or maintenance area.

According to certified data submitted to EPA's AQS, the Victorville and Barstow CO monitors were in attainment of the 1971 1-hour CO and 8-hour CO NAAQS from 2016 through 2020. The EPA determined that, based on design values from 2016-2020, there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at these sites. Preliminary 2021 data are consistent with the historical trend and continue to show low concentrations. These CO monitors are not specifically required by an attainment or maintenance plan and are not located in a nonattainment or maintenance area.

With these closures, fulfillment of SO₂ and CO minimum monitoring requirements (as specified in 40 CFR 58 Appendix D) for the Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area (MSA) will be dependent on monitoring conducted by the South Coast Air

Quality Management District (South Coast AQMD). 40 CFR 58 Appendix D §2(e) requires MDAQMD to establish a shared monitoring agreement with South Coast AQMD upon EPA approval of these monitor discontinuations. Please include a letter of agreement between the two agencies in your next Annual Network Plan (ANP).

Based on these analyses, EPA approves MDAQMD's discontinuation of the SO₂ SLAMS monitors at the Victorville and Trona sites, and CO SLAMS monitors at the Victorville and Barstow sites. Please include this letter, the relevant monitor and site information, and the letter of agreement between MDAQMD and South Coast AQMD in the next ANP.

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,

BEN MACHOL Digitally signed by BEN MACHOL Date: 2021.12.20 16:04:41-08'00'

for

Gwen Yoshimura, Manager Air Quality Analysis Office

cc (via e-mail): Greg Gilani, CARB
Manisha Singh, CARB
Kathleen Gill, CARB
Sylvia Vanderspek, CARB
Ravi Ramalingam, CARB
Jin Xu, CARB
Adolfo Garcia, CARB
Reggie Smith, CARB
Ranjit Bhullar, CARB



February 07, 2023

Ms. Gwen Yoshimura, Manager Air Quality Analysis Office U.S. Environmental Protection Agency, Region 9 Air Division 75 Hawthorne Street San Francisco, California 94105 Yoshimura.Gwen@epa.gov

Dear Ms. Yoshimura,

The California Air Resources Board (CARB) requests approval from the U.S. Environmental Protection Agency (U.S. EPA) for the relocation of all monitoring parameters (O3, PM2.5, and PM10) at the Mojave – 923 Poole Street (Poole) monitoring station (AQS: 060290011) to the nearby location at 1773 CA-58 Business (CA-58). 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.

Resultant of land use changes beyond CARB's control, monitoring operations at Poole were abruptly suspended at the end of August 2020. In coordination with and through extraordinary efforts by the Eastern Kern Air Pollution Control District (EKAPCD), the shelter was expeditiously relocated from Poole to a neighboring county property (CA-58) accessible to EKAPCD. Monitoring operations at CA-58 commenced on September 22, 2020; with subsequent CARB Site (15251) and AQS (060290019) identification numbers. Detailed site reports are provided in the attached documentation.

The CA-58 site is located approximately 1372 meters southwest of the original Poole site. As with Poole, the CA-58 site shares land use with another local government building and resides adjacent to a small parking lot. Trees approximately forty-feet tall outline the property perimeter to the north and west of the shelter, with the closest trees located approximately fifty feet from the shelter. In accordance with 40 CFR, §58.14(c)(6), the CA-58 location's proximity to Poole will maintain the existing scale of representation with no changes in monitored parameters or sampling methods. As shown in Figure 1 below, the Mojave Air and Spaceport remains to the north and northeast of CA-58, with residential neighborhoods to CA-58's south and west directions.



Figure 1: Poole and CA-58 Site Locations

Beyond the outlining trees adjacent to CA-58, the topography remains consistent as compared to Poole; mountainous terrain to the north and west of either location, the neighboring Mojave Air and Spaceport complex to the north, with the remaining southern and eastern areas sparsely developed. CA-58 maintains an unobstructed line of sight with Poole. Vehicle traffic at CA-58 is expected to remain consistent with Poole as both sites are accessible through the same major roadways, SR-14 and CA-58 Business. Based on a 2015 traffic count of 17,000 vehicles per day, CA-58 site distance of 60 meters to the CA-58 Business roadway meets minimum inlet probe distance requirements as shown in Table 1 of the attached doumentation.

Based on analysis of 2016 through 2020 Poole street data included in Attachment 1, all monitored parameters (O3, PM2.5 and PM10) do not meet the established five-year attainment criteria and are not eligible for removal. Please note the Poole site relocation in August 2020 and ensuing startup at CA-58 with a new AQS identification number, resulted in data capture incompleteness and subsequent undetermined Design Values for 2020 at Poole.

With respect to the region's ongoing nonattainment status and to provide verification that 40CFR, Part 58, Appendix D requirements will continue to be satisfied with the CA-58 relocation, CARB staff have compared recorded daily averaged pollutant concentrations between the Poole and CA-58 sites over a four calendar year period, 2019-2022 (refer to Attachment 2). As not all comparative data is available in AQS, for consistency CARB staff evaluated daily averages as reported from CARB's Air Quality and Meterological Information System (AQMIS) for the monitored O3, PM2.5, and PM10 parameters at both Poole and CA-58. Poole data consists of 2019 and 2020 calendar years, while CA-58 data consists of 2021 and 2022 calendar years.

Tables 2 through 4 in Attachment 2 documentation demonstrate that daily averaged concentration values recorded at CA-58 in 2021 and 2022 align with historical trends recorded at Poole in 2019 and 2020. Seasonal wind roses included in Figures 2 through 5, demonstrate wind patterns between Poole and CA-58 are comparable, with a predominantly western wind. CARB's Air Quality Science and Planning Division (AQPSD) and AQSB monitoring staff anticipate future CA-58 data trends to remain consistent with historical Poole trends based on proximity and similar topography between CA-58 and Poole.

This request comes as a precursor to an imminent request to relocate CA-58 to a final location. In consultation with CARB's AQPSD and U.S. EPA Region 9, a permanent site has been selected for relocation and is currently undergoing site improvements. A separate request will be submitted to U.S. EPA for that final relocation. Until that time, monitoring operations will continue indefinitely at CA-58. If you need any additional information, please contact Mr. Adolfo Garcia, Manager, Air Monitoring South Section within the Air Quality Surveillance Branch, at 951.542.3175 or Adolfo.Garcia@arb.ca.gov.

Sincerely,

Kathy Gill, Chief, Air Quality Surveillance Branch

Attachment(s): 5

Kathy Gill

cc: See next page

Ms. Gwen Yoshimura February 07, 2023 Page 4

cc: Dena Vallano
Air Quality Analysis Office
Region 9, Air Division
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105
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Walter Ham, Chief, Monitoring and Laboratory Division

Michael Benjamin, Chief, Air Quality Planning and Science Division

Michael Miguel, Assistant Chief, Monitoring and Laboratory Division

Manisha Singh, Chief, Quality Management Branch

Sylvia Vanderspek, Chief, Air Quality Planning Branch

Adolfo Garcia, Manager, Air Monitoring South Section

Thomas Lovejoy, Air Resources Engineer, Air Monitoring South Section

Attachment 1 Mojave - Poole Street System Modification Analysis

Site: Mojave - Poole Street (AQS# 060290011)
Pollutant: Ozone

2016 - 2020 8-Hour Ozone NAAQS

0.070 ppm	mdd	< Ozone 4	< Ozone 4th Maximum 8-Hour NAAQS	η 8-Hour NA	AQS				,		
2016 Jesign Value (ppm)	2017 Design Value (ppm)	2018 Design Value (ppm)	2019 Design Value (ppm)	2020¹ 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 NAAOS?
0.084	0.081	0.085	0.081	980.0	0.08	00.00	2.13	5	60.0	90.0	FAIL
1	200				1						

1. Poole Street monitoring operations discontinued in August 2020, completeness criteria not met. Displayed value is invalid, Probability Test - failed.

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

Source: EPA-AOS AMP450 and AMP480 Reports

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

Site: Mojave - Poole Street (AOS# 060290011)
Pollutant: PM 2.5

2016 - 2020 24-Hour NAAQS

	< 10% Probability of exceeding 80% of NAAQS?	FAIL
	80% of NAAOS (ug/m3)	28.0
	90% Upper Confidence Interval (ug/m3)	22.7
	Number of Data Values (n)	2
	Student's t value (90% confidence)	2.13
	Standard Deviation (s)	2.59
NAAOS	Average Design Value (ug/m3) (X)	20.2
tile 24-Hour NAAQS	2020 ¹ Design Value (ug/m3)	24.0
8th Percent	2019 Design Value (ug/m3)	19.0
< PM2.5 98th Percen	2018 Design Value (ug/m3)	21.0
35.000 ug/m³	2017 Design Value (ug/m3)	17.0
35.000	2016 Design Value (ug/m3)	20.0

^{1.} Poole Street monitoring operations discontinued in August 2020, completeness criteria not met. Displayed value is invalid, Probability Test - failed.

2016 - 2020 Annual Arithmetic Mean NAAOS

	< 10% Probability of exceeding 80% of NAAOS?	9.6 FAIL
	80% of NAAOS (ug/m3)	9.6
	90% Upper Confidence Interval (ug/m3)	7.0
	Number of Data Values (n)	5
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	0.52
NAAOS	Average Design Value (ug/m3) (X)	6.5
rithmetic Mean NAAOS	2020 ¹ Design Value (ug/m3)	7.3
nnual A rithr	2019 Design Value (ug/m3)	6.4
< PM2.5 Annual Ar	2018 Design Value (ug/m3)	6.7
	2017 Design Value (ug/m3)	0.9
12.000 ug/m³	2016 Design Value (ug/m3)	6.1

^{1.} Poole Street monitoring operations discontinued in August 2020, completeness criteria not met. Displayed value is invalid, Probability Test - failed.

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

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

Site: Mojave - Poole Street (AOS# 060290011)
Pollutant: PM 10

2016 - 2020 NAAQS 24-Hour Maximum Concentration

	< 10% Probability of exceeding 80% of NAAOS?	FAIL
	80% of NAAOS (ug/m3)	120.0
	90% Upper Confidence Interval (ug/m3)	198.4
	Number of Data Values (n)	2
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	65.3
	Average Maximum Conc. (ug/m3) (X)	136.2
AAOS	2020 ¹ Maximum Conc. (ug/m3)	111
4-Hour NAA	2019 Maximum Conc. (ug/m3)	248
< PM10 24-Hour NA	2018 Maximum Conc. (ug/m3)	92
	2017 Maximu Conc (ug/m	92
150.000 ug/m ³	2016 Maximum Conc. (ug/m3)	138

^{1.} Poole Street monitoring operations discontinued in August 2020, completeness criteria not met. Displayed value is invalid, Probability Test - failed.

2016 - 2020 NAAQS 24-Hour Design Concentration

	-	
	< 10% Probability of exceeding 80% of NAAOS?	FAIL
	80% of NAAOS (ug/m3)	120.0
	90% Upper Confidence Interval (ug/m3)	116.0
	Number of Data Values (n)	5
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	21.3
	Average Design Conc. (ug/m3) (X)	95.8
AAOS	2020 ¹ Design Conc. (ug/m3)	109
4-Hour NAA	2019 Design Conc. (ug/m3)	124
< PM10 24-Hour NA	2018 Design Conc. (ug/m3)	78
	2017 Design Conc. (ug/m3)	73
150.000 ug/m³	2016 Design Conc. (ug/m3)	95

^{1.} Poole Street monitoring operations discontinued in August 2020, completeness criteria not met. Displayed value is invalid, Probability Test - failed.

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

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

Attachment 2 Mojave - Poole Street and CA-58 Comparative Analysis

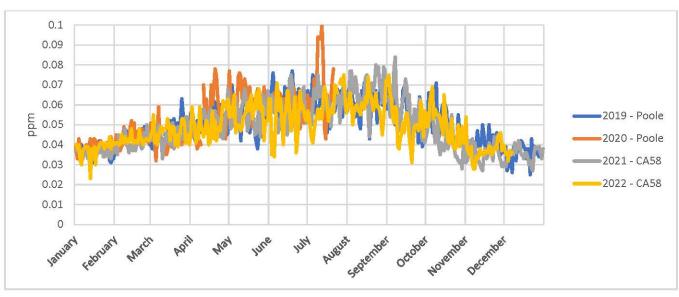
Table 1: Minimum Separation Distance between Roadways and Gaseous Inlet Probe

Roadway Average Daily Traffic (vehicle per day)	Minimum Distance ¹ (meters)
≤1,000	10
10,000	10
15,000	20
20,000	30
40,000	50
70,000	100
≥110,000	250

^{1.} Distance from the edge of the nearest traffic lane. The distance for immediate traffic counts should be interpolated from table values based on the actual traffic count.

Tables 2 through 4 below represent daily averaged concentration values recorded at Poole in 2019-2022 and CA-58 in 2021-2022. 2020 data only represents Poole data through August 2020, when monitoring operations were suspended. 2022 CA-58 data represents recorded data through December 2022, when the analysis was performed.

Table 2: Mojave Daily Maximum 8-Hour Ozone Comparison: Poole and CA-58



Note: 2020 Poole data through August 2020. 2022 CA-58 data through December 2022

80
70
60
50
30
2020 - Poole
—2021 - CA58
—2022 - CA58
—2022 - CA58

Table 3: Mojave PM2.5 Daily Average Comparison: Poole and CA-58

Note: 2020 Poole data through August 2020. 2022 CA-58 data through December 2022

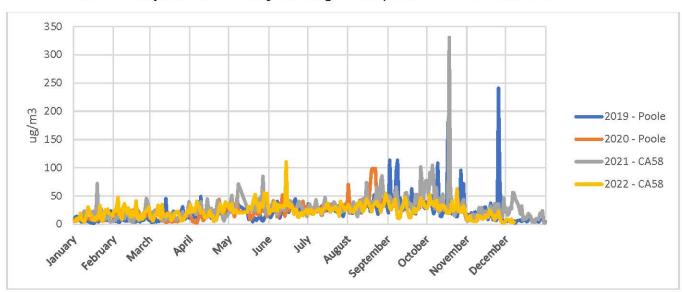


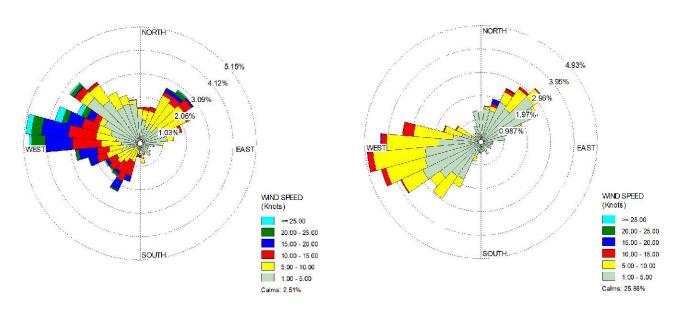
Table 4: Mojave PM10 Daily Average Comparison: Poole and CA-58

Note: 2020 Poole data through August 2020. 2022 CA-58 data through December 2022

Mojave wind roses below are based on recorded measurements at:

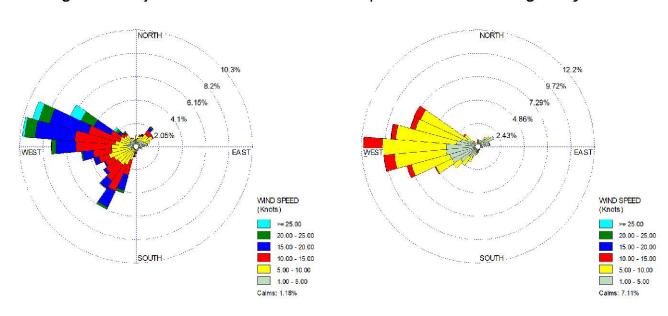
- 1. Mojave 923 Poole Street during 2019-2020. End of data available is August 31, 2020. Left column figures.
- 2. Mojave CA-58 Business during 2021-2022. First data January 6, 2021, through December 14, 2022. Right column figures.

Figure 2: Mojave Seasonal Wind Rose Comparison: December through February



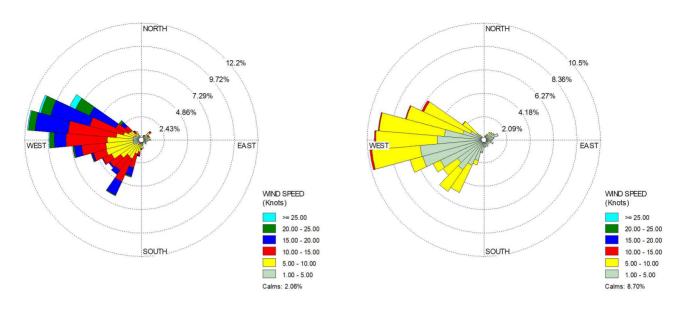
Poole: 2019-2020 CA-58: 2021-2022

Figure 3: Mojave Seasonal Wind Rose Comparison: March through May



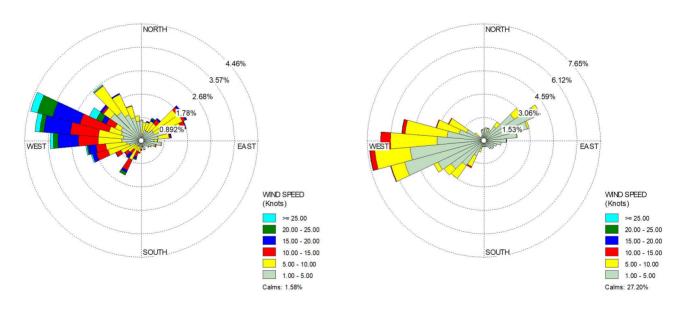
Poole: 2019-2020 CA-58: 2021-2022

Figure 4: Mojave Seasonal Wind Rose Comparison: June through August



Poole: 2019-2020 CA-58: 2021-2022

Figure 5: Mojave Seasonal Wind Rose Comparison: September through November



Poole: 2019-2020 CA-58: 2021-2022

Attachment 3 Mojave - Poole Street Detailed Site Report

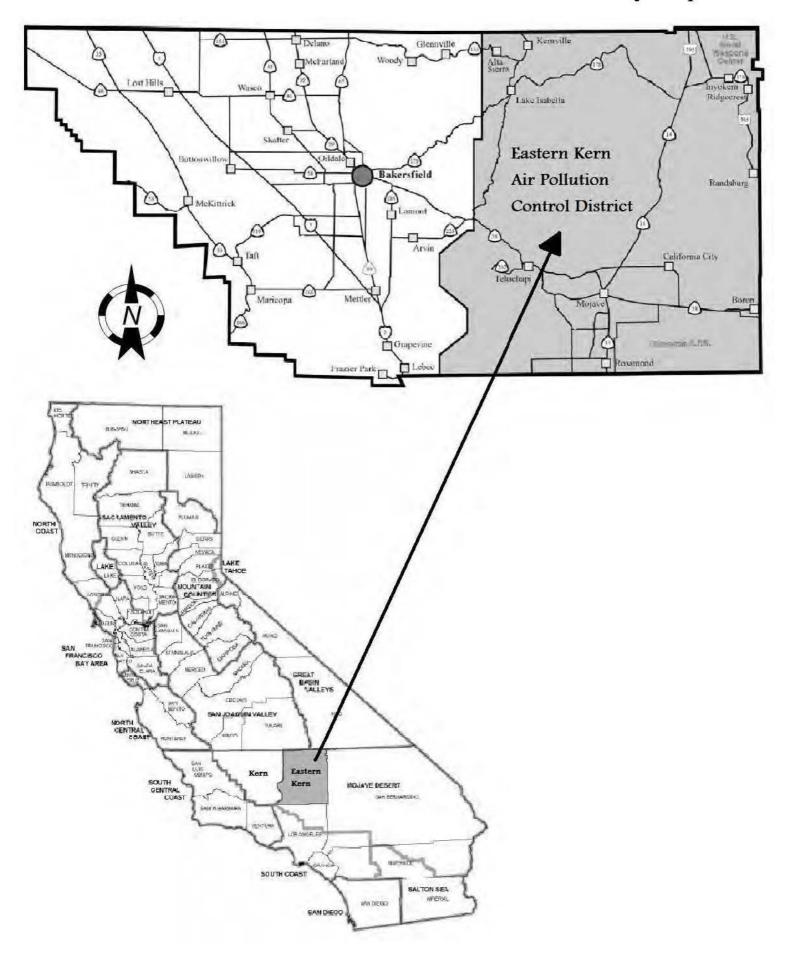
I ocal Sita Nama			Moisve	
AQS ID			06-029-0011	
GPS Coordinates			35.05045, -118.14778	
Street Address		92:	923 Poole Street, Mojave, 93501	501
County			Kem	
Distance to roadways (meters)			885 to CA-58	
Traffic Count (AADT,year)			17,000 (2015)	
Ground Cover			Asphalt	
Representative statistical area name (i.e. MSA, CBSA, other)		Baker	Bakersfield Metropolitan Statistical Area	al 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)	NAACS	NAAGS	NAAGS	
Site type(s)	Highest Concentration	Population Exposure	Highest Concentration	
Monto (ype(s) Network affiliation(s)	OLAIMIS 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	
FRW/FEM/ARM/Other	FEM	FEM	FEM	
Collecting Agency	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	A/N	
Reporting Agency	ARB	ARB	ARB	
Spatial scale	Regional	Neighborhood	Neighborhood	
Monitoring start date	8/1/1993	6/4/2013	4/1/2011	
Current sampling frequency	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	A/N	A/N	¥N .	
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 root (meters)	No obstructions	No obstructions	No obstructions	
Height above probe for obstructions on roof (meters)	No obstructions	No obstructions	N/A	
Distalled from posturetions for photographs as post (materia)	NO ODSUBCIOUS	NO ODSITICATORIS	SIMO ODSITICATIONS	
neight above probe for obsurctions not on root (meters) Distance to nearest tree drin line (meters)	× 10	√10 V10	√10 V10	
Distance to fumace or incinerator flue (meters)	A/N	N/A	₹/Z	
Distance between monitors fulfilling a QA collocation requirement (meters)	N/A	N/A	ΝΑ	
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. Pvrex. stainless steel, Teffon)	Teflon	N/A	N/A	
Residence time for reactive gases NONO2/NOy, SO2, O3, PAMS: VOCs, Carbonyls (seconds)	8.7	N/A	N/A	
Will there be changes within the next 18 months?	yes	yes	sek	
Is it suitable for comparison against the annual PM2.5 NAAQS?	N/A	ΑN	Yes	
Frequency of flow rate verification for manual PM samplers, including Pb samplers	A/N	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	1/31/2019	N/A	N/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for	N/A	1/31/2019	1/31/2019	
PMI monitors		1124/2019	(124/2019	

Attachment 4 Mojave - CA-58 Business Detailed Site Report

l ovel Site Name			Mojove	
AOS ID			RO290011	
GPS Coordinates			35 04649 -118 16295	
O Coolumnes		0 6221	A 50 Business Mainte O 8 0250	
Street Address		17/3	1773 CA-58 Business, Mojave CA 93501	
County			Кеш	
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)		Bakers	Bakersfield Metropolitan Statistical Area	1
Pollutant, POC	Ozone, 1	PM10, 2	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	A/N	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	W/N	A/N	
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	KEM	FEM	
Collecting Agency	ARB	ARB	ARB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	Y/N	N/A	
Reporting Agency	ARB	ARB	ARB	
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	Α/N	A/N	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 fumace or incinerator flue (meters)	A/N	A/N	A/N	
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, CarbonvIs (e.g. Pvrex. stainless steel. Teflon)	Teflon	N/A	N/A	
Residence time for reactive gases NONO2/NOy, SO2, O3; PAMS: VOCs,	8.6	A/N	Ψ'N	
Carbonyls (seconds)				
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	VIN	W/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	A/N	
Date of Annual performance evaluation conducted in the past calendar year for	ΨZ	A/N	A/N	
Date of two semi-annual flow rate audits conducted in the past calendar year for	A/N	A/N	Ψ/N	
PM monitors				

Attachment 5 Map of Eastern Kern APCD Air Monitoring Network

Eastern Kern Air Pollution Control District Boundary Map





April 05, 2024

Dr. Dena Vallano, Manager 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 Dr. Vallano,

The California Air Resources Board (CARB) requests approval from the U.S. Environmental Protection Agency (U.S. EPA) for the relocation of all monitoring parameters (O3, PM2.5, and PM10) at the Mojave – 1773 CA-58 Business, Mojave 93501(AQS: 060290019) (CA-58) monitoring station to 3200 Pat Avenue, Mojave 93501(AQS: 060290020) (Pat Avenue). 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.

This request comes as the final step in a series of relocations for the Mojave monitoring station, resultant of land use changes beyond CARB's control. U.S. EPA recently approved the temporary relocation from the original Poole location to CA-58 (see Attachments), when monitoring operations at the original Poole Street location were abruptly suspended and the shelter temporarily relocated to CA-58. CARB's continued efforts to secure another lease within the Mojave Air and Space Port (MASP) perimeter were unsuccessful as MASP would not consider lease periods greater than one-year and limited potential properties to those with existing utility meters only; requiring CARB to assume full non-refundable financial responsibility for required tenant improvements without consideration for extending one-year lease periods.

Ineffective negotiations with MASP over the course of two years forced CARB to expand the search area beyond the MASP perimeter. In consultation with U.S. EPA and CARB's Air Quality Science and Planning Division (AQPSD), CARB evaluated several potential nearby locations and ultimately secured a lease agreement with the Mojave Unified School District. In continued collaboration with the Eastern Kern APCD, the shelter was relocated from CA-58 to Pat Avenue in March 2023.

Pat Avenue is located approximately 2300 meters northwest of the CA-58 site as shown in Figure 1 of Attachment 2. As with CA-58, Pat Avenue shares land use with another local public building, specifically a former middle school currently utilized for school District offices and resides adjacent to a small parking lot as shown in Figure 2.

Dr. Dena Vallano April 05, 2024 Page 2

A residential track development surrounds Pat Avenue to the north and west, approximately 70 meters from the monitoring station. In accordance with 40 CFR, §58.14(c)(6), the Pat Avenue location's proximity to the CA-58 location will maintain the existing scale of representation without changes in monitored parameters or sampling methods as viewed in Figure 1. Analysis of 2018 through 2022 CA-58 data included in Attachment 1 confirm all monitored parameters (O3, PM2.5 and PM10) do not meet the established minimum five-year attainment criteria. With respect to the region's ongoing non-attainment status, the Pat Avenue relocation shall remain in compliance with 40CFR, Part 58, Appendix E requirements.

Beyond the adjacent neighborhood at Pat Avenue, the topography remains consistent with CA-58; mountainous terrain to the north and west, MSAP to the northeast, and the remaining southern and eastern areas remain largely undeveloped. Major contributors of stationary emission sources in the region remain unchanged and are comprised of permitted mining, cement production, commercial aerospace (MASP), agricultural, and military operations. The main objective of the Mojave monitoring station is the capture of regional transport emissions through the Tehachapi Mountain pass between the San Joaquin and South Coast air basins. Consistent with areas dominated by transport emissions, ozone values in Mojave typically peak in the late afternoon and evening hours lasting overnight.

Although Pat Avenue and CA-58 are accessible via SR-14, Pat Avenue is approximately 1400 meters west of SR-14 with an expected reduction in vehicle traffic given its residential location as compared to CA-58, which was located west of SR-14 in a thoroughfare between SR-14 and SR 58. Based on a 2022 peak area traffic count of 17,000 vehicles per day, Pat Avenue's approximate 1400-meter distance to SR-14 meets both gaseous and PM minimum inlet criteria as referenced in Attachment 2 tables. The Pat Avenue relocation is west of CA-58 and directly within the predominant westerly wind pattern of the region, CARB staff do not anticipate any negative impacts in captured transport emissions at Pat Avenue.

Attachment 2, Tables 3 through 6, provide a comparative analysis of preliminary daily concentration averages (O3, PM2.5, and PM10) over a one-year period between March 2023 (Pat Avenue inception) through February 2024, demonstrating consistent monitoring trends at Pat Avenue as compared to historical CA-58 trends. Observed anomalies in 2021 PM data collected at CA-58 were resultant of sustained high wind events and consistent with data recorded at CARB's Bakersfield monitoring station. Seasonal wind roses included in Attachment 2, reaffirm the predominant westerly wind pattern for the area. Pat Avenue's location west of SR-14 is expected to measure more accurate regional transport ozone and PM concentrations as measurements have less potential to be influenced by roadway emissions. With respect to the aforementioned consistency in emission sources, regional topography, and wind patterns, coupled with the proximity of Pat Avenue to CA-58; CARB staff have not observed any negative impacts to collected data at Pat Avenue to date.

Dr. Dena Vallano April 05, 2024 Page 3

If you need any additional information, please contact Mr. Adolfo Garcia, Manager, Air Monitoring South Section, at (951)542-3175 or Adolfo.Garcia@arb.ca.gov. CARB thanks all parties involved for their collaboration and continued efforts in successfully relocating the Mojave air monitoring station.

Sincerely,

Kathleen Gill

Kathleen Gill

Chief, Air Quality Surveillance Branch Monitoring and Laboratory Division California Air Resources Board

Attachment(s): 5

cc: See next page.

Dr. Dena Vallano April 05, 2024 Page 4

CC:

Julia Carlstad
Monitoring and Analysis Section
Region 9, Air Division
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105
Carlstad Julia@epa.gov

Gary Ray, Jr., Air Pollution Control Officer Eastern Kern Air Pollution Control District 2700 M Street, Suite 302 Bakersfield, California 93301 RayG@kerncounty.com

Bernave Garcia, Air Quality Administrative Manager Eastern Kern Air Pollution Control District 2700 M Street, Suite 302 Bakersfield, California 93301 BernaveG@kerncounty.com

Walter Ham, Chief, Monitoring and Laboratory Division

Michael Benjamin, Chief, Air Quality Planning and Sciences Division

Michael Miguel, Assistant Chief, Monitoring and Laboratory Division

Manisha Singh, Chief, Quality Management Branch

Sylvia Vanderspek, Chief, Air Quality Planning and Sciences División

Adolfo Garcia, Manager, Air Monitoring South Section

Thomas Lovejoy, Air Resources Engineer, Air Monitoring South Section

Attachment 1 EPA System Modification Analyses

Site: Mojave - CA-58 BUS (AOS# 060290019)
Pollutant: Ozone (44201)

2018 - 2022 8-Hour Ozone NAAQS 0.070 ppm <- Ozone 4th Maximun

15	< 10% obability of exceeding 80% of NAAOS?	III.
	< 10% Probability o exceeding 80% of NAAOS?	5 FAIL
	80% of NAAOS (ppm)	90.0
	90% Upper Confidence Interval (ppm)	0.00
	Number of Data Values (n)	5
	Student's t value (90% confidence)	2.13
	Standard Deviation (s)	00.00
LAOS	Average Design Value (X) (ppm)	0.08
um 8-Hour NAAQS	2022 Design Value (ppm)	0.081
th Maximur	2021 Design Value (ppm)	0.082
< Ozone 4th Maximu	2020 Design Value (ppm)	980.0
	2019 Design Value (ppm)	0.081
0.070 ppm	2018 Design Value (ppm)	0.085

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

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

Site: Mojave - CA-58 BUS (AQS# 060290019) Pollutant: PM 2.5 (88101)

2018 - 2022 24-Hour NAAQS

	< 10% Probability of exceeding 80% of NAAQS?	FAIL
	80% of NAAOS (ug/m3)	28.0
	90% Upper Confidence Interval (ug/m3)	32.0
	Number of Data Values (n)	2
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	5.89
NAAOS	Average Design Value (ug/m3) (X)	26.4
tile 24-Hour	2022 Design Value (ug/m3)	30.0
8th Percent	2021 Design Value (ug/m3)	31.0
< PM2.5 98th Percentile 24-Hour NAAOS	2020 Design Value (ug/m3)	31.0
	2019 Design Value (ug/m3)	19.0
35.000 ug/m ³	2018 Design Value (ug/m3)	21.0

2018 - 2022 Annual Arithmetic Mean NAAQS

	< 10% Probability of exceeding 80% of NAAQS?	9.6 PASS
	80% of NAAOS (ug/m3)	9.6
	90% Upper Confidence Interval (ug/m3)	7.5
	Number of Data Values (n)	5
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	0.51
NAAOS	Average Design Value (ug/m3) (X)	7.1
Arithmetic Mean NAAQS	2022 Design Value (ug/m3)	7.1
Annual Arith	2021 Design Value (ug/m3)	7.6
< PM2.5 Annual	2020 Design Value (ug/m3)	7.5
12.000 ug/m ²	2019 Design Value (ug/m3)	6.4
12.000	2018 Design Value (ug/m3)	6.7

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

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

Site: Mojave - CA-58 BUS (AQS# 060290019)
Pollutant: PM 10 (81102)

2018 - 2022 NAAQS 24-Hour Design Concentration

	NAAOS	Average Standard Maximum Conc. (ug/m3) (x) (x) (ug/m3)	95.7 03.1 0.9
		Student's t value (90% confidence) (t)	2 13
		Average Standard Conc. Deviation (ug/m3)	03.1
37 15	105	2022 Maximum Conc. (ug/m3)	7 78
		2021 Maximum Conc. (ug/m3)	104.0
	< PM10 24-Hour	2020 Maximum Conc. (ug/m3)	8 00
		2019 Maximum Conc. (ug/m3)	017
7 7 7 7 7 7 7	150.000 ug/m ³	2018 Maximum Conc. (ug/m3)	203

2018 - 2022 NAAQS 24-Hour Maximum Concentration

	of	
	< 10% Probability of exceeding 80% of NAAQS?	120.0 FAIL
	80% of NAAOS (ug/m3)	120.0
	90% Upper Confidence Interval (ug/m3)	290.9
	Number of Data Values (n)	5
	Student's t value (90% confidence) (t)	2.13
	Standard Deviation (s)	111.2
	Average Design Conc. (ug/m3) (X)	185.0
AAQS	2022 Design Conc. (ug/m3)	121.0
_	2021 Design Conc. (ug/m3)	351.0
< PM10 24-Hour N	2020 Design Conc. (ug/m3)	113.0
	2019 Design Conc. (ug/m3)	248.0
150.000 ug/m ³	2018 Design Conc. (ug/m3)	92.0

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

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

Attachment 2 Supporting Documentation and Comparative Data Analyses

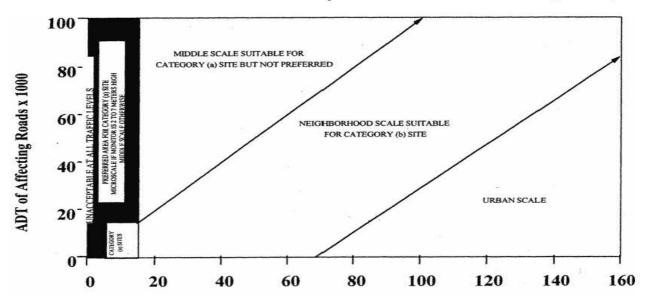
Tables 1 and 2 below are referenced to ensure Ozone and PM inlets at Pat Avenue meet siting criteria per 40CFR, Part 58, Appendix E requirements. A 2022 calendar year traffic count conducted by the California Department of Transportation lists a peak annual average daily traffic volume of 17,000 vehicles per day. Pat Avenue's 1400-meter distance west of SR-14 ensures Pat Avenue PM and gaseous inlets meet the required minimum setback distance.

Table 1: Minimum Separation Distance Between Roadways and Gaseous Inlet Probe

Roadway Average Daily Traffic (vehicle per day)	Minimum Distance ¹ (meters)	Minimum Distance ^{1,2} (meters)
≤1,000	10	10
10,000	10	20
15,000	20	30
20,000	30	40
40,000	50	60
70,000	100	100
≥110,000	250	250

^{1.} Distance from the edge of the nearest traffic lane. The distance for immediate traffic counts should be interpolated from table values based on the actual traffic count.

Table 2: Minimum Distance of PM Samplers To Nearest Traffic Lane (meters)



^{2.} Applicable for ozone monitors whose placement has not already been approved as of December 18, 2006

Tables 3 through 6 below represent comparative daily averaged concentration values recorded at CA-58 in 2021-2023 and Pat Avenue in 2023-2024. Pat Avenue monitoring operations commenced in March 2023, the provided tables are organized to provide a one-year period for comparison. Maximum 1-hr daily ozone values are also provided to display consistency in both 1-hr and 8-hr ozone trends between the two locations. Observed anomalies in 2021 PM data collected at CA-58 were resultant of sustained high wind events and consistent with data recorded at CARB's Bakersfield monitoring station.

0.140 0.120 0.080 0.080 0.040 0.020 0.020 0.000

Marcy, Norty, May, May, May, May, September October, September Septemb

Table 3: Mojave Daily Maximum 1-Hour Ozone Comparison: CA-58 and Pat Avenue

Note: 2023 Pat Avenue data commenced in March 2023

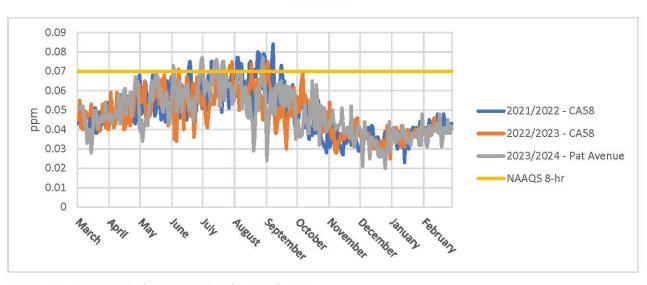


Table 4: Mojave Daily Maximum 8-Hour Ozone Comparison: CA-58 and Pat Avenue

Note: 2023 Pat Avenue data commenced in March 2023

60
50
40
2021/2022 - CA58
20
2022/2023 - CA58
2023/2024 - Pat Avenue
NAAQS - PM2.5

Table 5: Mojave PM2.5 Daily Average Comparison: CA-58 and Pat Avenue

Note: 2023 Pat Avenue data commenced in March 2023

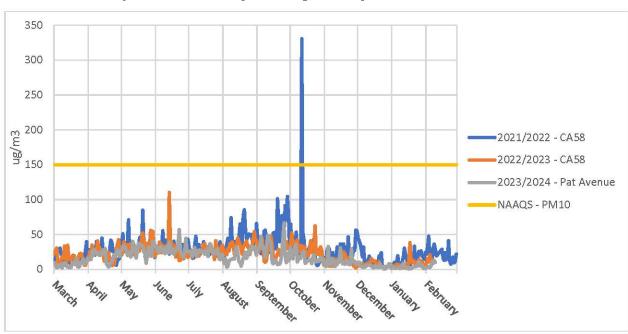


Table 6: Mojave PM10 Daily Average Comparison: CA-58 and Pat Avenue

Note: 2023 Pat Avenue data commenced in March 2023

Figure 1: CA-58, and Pat Avenue Site Locations



Figure 2: Pat Avenue Site Location



The provided wind roses depict the Mojave area's wind patterns over the 2020 through 2022 calendar years. Wind patterns remain consistent with a predominant westerly wind.

Figure 3: Mojave Seasonal Wind Rose Comparison: December through February

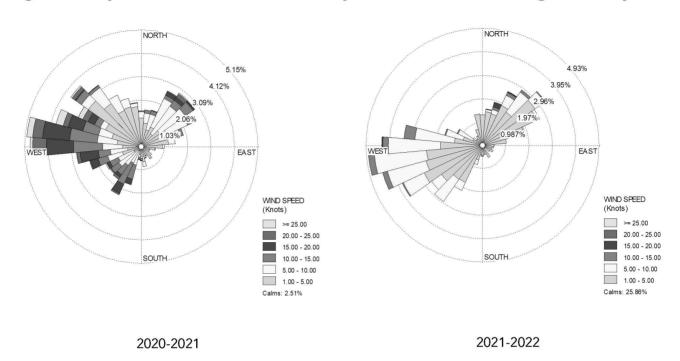
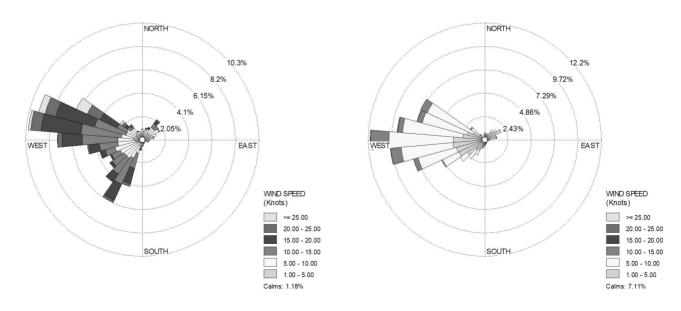


Figure 4: Mojave Seasonal Wind Rose Comparison: March through May



2020-2021 2021-2022

Figure 5: Mojave Seasonal Wind Rose Comparison: June through August

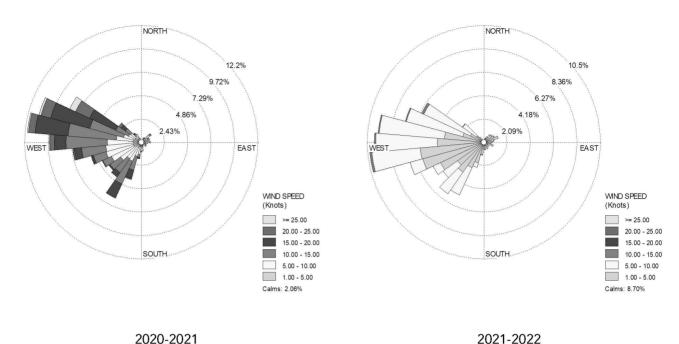
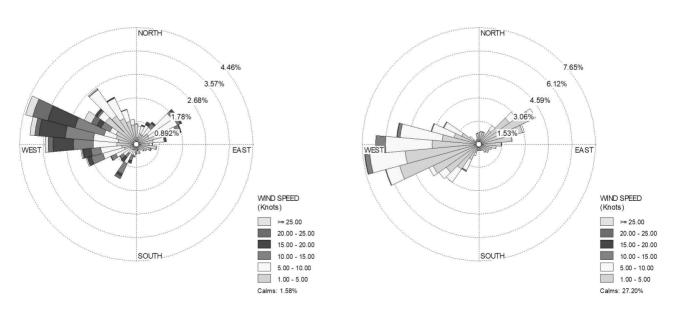


Figure 6: Mojave Seasonal Wind Rose Comparison: September through November



2020-2021 2021-2022

Attachment 3 EPA Approval for Mojave CA-58 Relocation



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 75 Hawthorne Street

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 O₃, PM_{2.5}, and PM₁₀ 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 O₃, PM_{2.5}, and PM₁₀ 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 O₃, PM_{2.5}, and PM₁₀, 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 O₃, PM_{2.5}, and PM₁₀ 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 O₃, PM_{2.5}, and PM₁₀ 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 Digitally signed by DENA VALLANO Date: 2023.04.11 15:02:49-07'00'

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

Attachment 4 Detailed Site Reports

Eastern Kern APCD

Local Site Name			Mojave	
AQSID			06-029-0019	
GPS Coordinates			35.05045, -118.14778	
Street Address		į.	1773 CA-58 , Mojave, 93501	
County			Kem	
Distance to roadways (meters)			64 to CA-58	
Traffic Count (AADT, year)			19,000 (2017)	
Ground Cover			Asphalt	
Representative statistical area name (i.e. MSA, CBSA, other)		Bakers	Bakersfield Metropolitan Statistical Area	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)	A/N +	N/A	N/A	
Instrument manutacturer and model	l eledyne API 400	Met One BAM 1020	Met One BAIM 1020	
Method code	8/	122	1/0	
FKW/FEM/AKM/Other	FEM	FEM	FEM	
Collecting Agency	AKB	AKB	AKB	
Analytical Lab (i.e. weigh lab, toxics lab, other)	A/N	N/A	N/A	
Reporting Agency	ARB	ARB	ARB	
Spatial scale	Regional	Neighborhood	Neighborhood	
Monitoring start date	8/1/1993	6/4/2013	4/1/2011	
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	A/N	
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	A/N	
Distance to nearest tree drip line (meters)	>10	>10	>10	
Distance to fumace or incinerator flue (meters)	N/A	N/A	A/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)	12.65	N/A	A/N	
Will there be changes within the next 18 months?	Yes	Yes	Yes	
Is it suitable for comparison against the annual PM2.5 NAAQS?	A/N	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	02/02/2022 08/30/2022	02/02/2022 08/30/2022	
		2202000	2222	

Eastern Kern APCD

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>a</u>			
Local Site Name			Mojave	
AQSID			06-029-0020	
GPS Coordinates			35.04944, -118.18893	
Street Address		320	3200 Pat Avenue, Mojave, 93501	501
County			Kem	
Distance to roadways (meters)			1,367 to SR 14	
Traffic Count (AADT, year)			17,000 (2022)	
Ground Cover			Dirt/Soil	
Representative statistical area name (i.e. MSA, CBSA, other)		Bakers	Bakersfield Metropolitan Statistical Area	al 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	SILAMS	
Network affiliation(s)	N/A	N/A	A/N	
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	A/N	
Reporting Agency	CARB	CARB	CARB	
Spatial scale	Regional	Urban	Urban	
Monitoring start date	3/8/2023	3/8/2023	3/8/2023	
Current sampling frequency	Continuous	Continuous	Continuous	
Required sampling frequency including exceptional events	N/A	N/A	A/N	
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	A/N	
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	A/N	
Distance to nearest tree drip line (meters)	>10	>10	>10	
Distance to fumace 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 NONO2/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)	10.5	N/A	A/N	
Will there be changes within the next 18 months?	N _o	No	o _N	
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	A/N	
Date of Annual performance evaluation conducted in the past calendar year for gaseous parameters	3/7/2024	N/A	W/W	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors	N/A	9/19/2023 3/7/2024	9/19/2023	

Attachment 5 Site Photos – Pat Avenue

Photo 1: Pat Avenue Shelter



Photo 5: Pat Avenue Shelter, Rooftop North View



Photo 3: Pat Avenue Shelter, Rooftop East View



Photo 4: Pat Avenue Shelter, Rooftop South View



Photo 2: Pat Avenue Shelter, Rooftop West View







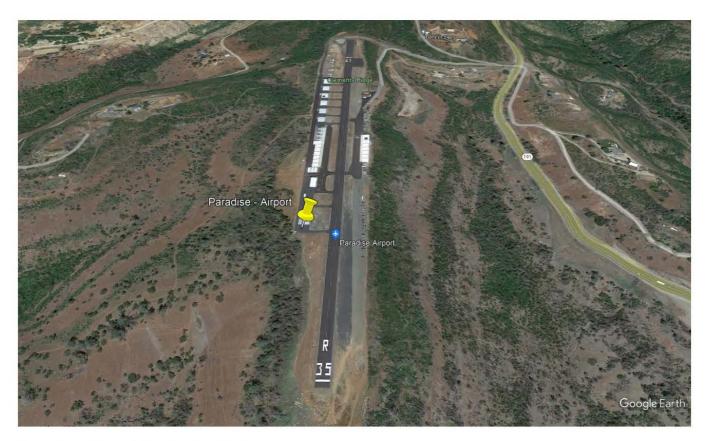
July 18, 2023

Ms. Dena Vallano, PhD
U.S. Environmental Protection Agency, Region 9
Air and Radiation Division
Monitoring and Analysis Section (AIR 2-3)
75 Hawthorne Street
San Francisco, California 94105
vallano.dena@epa.gov

Dear Ms. Vallano:

The California Air Resources Board (CARB) is requesting approval from U.S. EPA to relocate the ambient air monitoring station at Paradise – Airport (AQS # *060070007*) to a new location at 5921 Clark Road, Paradise, CA 95969. The basis for this relocation is per 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.

<u>Paradise – Airport monitoring station</u> (ozone/meteorology): The site address is 4405 Airport Road (Airport Road is connected to Clark Road). The Paradise – Airport station is a trailer which resides near the southern end of the Paradise Airport (site map below). Numerous site issues have developed over the last several years, ranging from site access, trailer condition, air conditioning/heating repairs, internet communications, and end-of-lease inquiries from property owners. The Airport trailer has reached its end-of-life and is estimated to be unusable for ambient air monitoring needs by the end of summer 2023. As the Airport monitoring site is a trailer, current and future air conditioning/heating repairs have become increasingly difficult, if not impossible. Airport activities have also increased which may potentially impact data quality (i.e. airplane/helicopter activity, vehicular traffic, emergency evacuee/staging area, etc.). In addition, the station operator was previously approached by airport property managers who inquired how much longer we planned to remain onsite as there is potential interest to repurpose the area where the trailer sits. Proactively, CARB began the long process to investigate alternative monitoring locations resulting in a suitable building location at 5921 Clark Road. This new location resides approximately 3.5 miles north of the existing Airport station. Early discussions with CARB's Air Quality Planning and Science Division (AQPSD) resulted in a new site location request, with AQPSD requesting the new site to reside within a block or two of the Clark Road corridor, between Pearson Road and south of the Theater. The new 5921 Clark site complies with this request.



Paradise - Airport Monitoring Station

In addition, CARB operates a non-FEM PM2.5 continuous monitor located at 6701 Clark Road, identified as the Paradise – Theater monitoring site. The PM2.5 monitor is non-FEM, the data collected/reported is utilized for informational purposes, such as Air Quality Index (AQI) and agricultural burning. During the 2018 Camp Fire, the Paradise Theater building was partially damaged and the theater is not planned to reopen. CARB was informed by the Butte County Air Pollution Control Officer that the Theater may be demolished at a later unknown date. Routine Theater rooftop access is not an ideal situation for staff, creating safety concerns when staff install, remove and/or maintain rooftop monitoring equipment. The new 5921 Clark Road site resides approximately 1.7 miles to the south-southwest of the Theater and will be a beneficial opportunity to combine two sites (Airport and Theater) into a single site.



Paradise - Theater Monitoring Station

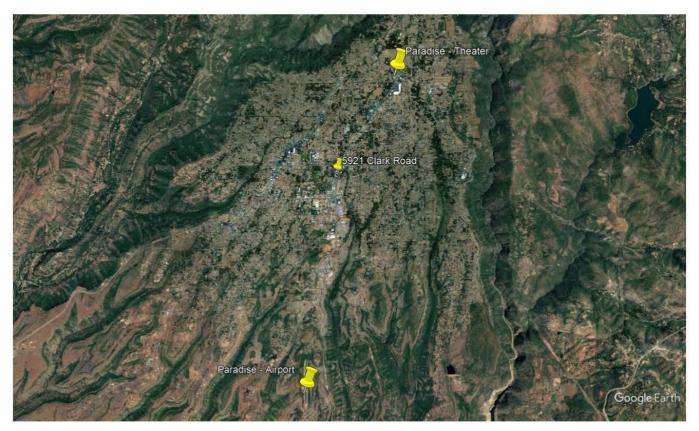
The new Paradise monitoring station (5921 Clark Road): As site relocations are taking CARB up to two (2) years or more, CARB proactively reached out to AQPSD to request approval to close/relocate both sites to a single location. The new Paradise monitoring station is located between the Airport and Theater sites (site map below). As this new site will reside within a permanent building, site repairs (including air conditioning/heating repairs), will proceed within the lease process, a process which significantly simplifies and expedites repair requests. This new Paradise site meets siting criteria and the building property management team has been readily agreeable to all site modification requests.

The proposed start date for the new Paradise – Clark site is May 2023, the proposed shutdown date for the Paradise – Airport site will at close of summer 2023, possibly sooner if the station trailer and/or air conditioning system cease to function as required. No ozone monitoring downtime is expected to occur between the closure of the Paradise - Airport site and the startup of the new Paradise - Clark site.



New Paradise Monitoring Site: 5921 Clark Road.

The map below displays all three (3) sites: Airport to the south, Theater to the north-northeast and the new site between them.



Map including all three (3) sites: New 5921 site resides between Airport and Theater

Seasonal wind speeds and direction at the new location are expected to remain similarly consistent. All parameters (and methods) previously monitored at the Airport and Theater stations will be monitored at 5921 Clark Road. Limited term parallel ozone monitoring is planned at Airport and the new location although the Airport site will most likely fail to meet inside station requirements when ambient temperatures increase.

Attachment 1 includes results of the "Site Closure Test', "DV metrics", "time series" (8-hr max O3 concentrations 2028 – 2022), "detailed site table", "ozone site year" (2003 – 2022), "ozone site day" (2018 – 2022) and "ozone site day pivot" (2022).

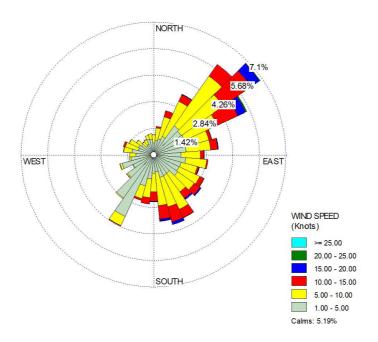
Attachment 2 includes displays the traffic count information.

The preliminary parallel monitoring data is not available.

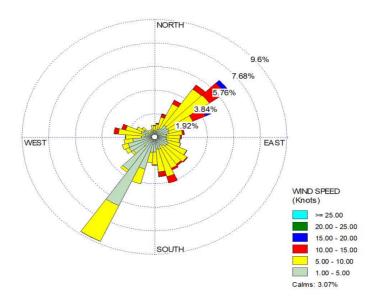
The table below displays the DV values for the past five years plus preliminary 2023 data:

Year						2023
	2018	2019	2020	2021	2022	(preliminary)
0.070 ppm 8-hr standard						
Design Value	0.079	0.074	0.073	0.07	0.071	0.064

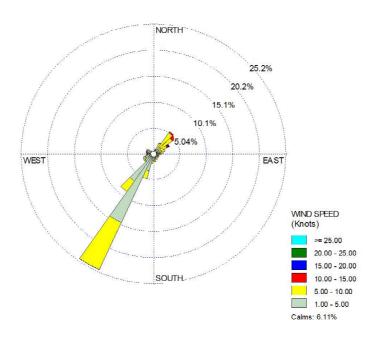
The following two pages display Paradise – Airport wind roses for the 2019 – 2021 time period. These wind roses are representative of the new Paradise site at 5921 Clark Road. Meteorology (wind) data was/is not measured at the Paradise-Theater monitoring site so the nearby Paradise – Airport (at 4405 Airport Road) 2019-2021 wind data was utilized for this analysis.



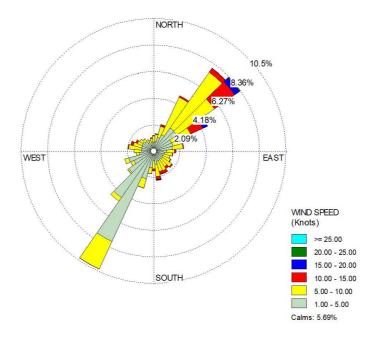
January, February, December during 2019-2021



March – May during 2019-2021



June – August during 2019-2021



September – November during 2019-2021

Dena Vallano 7/18/2023 Page 10

The new Paradise site at 5921 Clark is deemed representative of the exposure to sensitive groups, meets the siting criteria for the air monitoring network, and has similar spatial and land-use patterns as the Airport monitoring site. As the new 5921 Clark Road site is located 3.5 miles from Airport, the new Paradise site is expected to measure similar ozone levels while being located nearer to Paradise residents.

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,

Kathy Gill

Kathy Gill

Chief, Air Quality Surveillance Branch

Monitoring and Laboratory Division

cc: See next page

cc:

Julia Carlstad, Ph.D., U.S. EPA, Region 9, Monitoring and Analysis Section (Air-2-3)

Walter Ham, Chief, Monitoring and Laboratory Division

Mike Miguel, Assistant 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, Air Quality Surveillance Branch



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 75 Hawthorne Street

75 Hawthorne Street San Francisco, CA 94105-3901

October 30, 2023

Sylvia Vanderspek, Branch Manager Air Quality Planning Branch California Air Resources Board 1001 I Street Post Office Box 2815 Sacramento, California 95812

Dear Branch Manager Vanderspek:

Thank you for your submission of the California Air Resources Board (CARB) Annual Network Plan Covering Monitoring Operations in 25 California Air Districts, June 2023 ("Plan") on June 28, 2023. We have reviewed the submitted document based on the requirements set forth in 40 CFR Part 58. Based on the information provided in the plan, the U.S. Environmental Protection Agency (EPA) approves all portions of the network plan except those specifically identified below. With this plan approval, we also formally approve the O₃ season waivers for five O₃ sites: Echo Summit (Air Quality System (AQS) ID: 06-017-0012), Cool (AQS ID: 06-017-0020), Jerseydale (AQS ID: 06-043-0006), Sutter Buttes (AQS ID: 06-101-0004), and Tuscan Butte (AQS ID: 06-103-0004) for November 2023-March 2024. Please note that an updated request including 2023 data will be required for future ozone season waiver approvals after March 31, 2024. More information about these approvals is included in Enclosure A. With this plan approval, we also formally approve the following system modification: the relocation of Paradise – Airport (Air Quality System (AQS) Site ID: 06-007-0007) to the Paradise - Clark site (AQS ID: 06-007-2003). More information about this approval is included in Enclosure C.

In the State of California, ten district monitoring agencies submitted annual monitoring network plans this past year in accordance with 40 CFR 58.10. EPA received plans covering the 2022 calendar year from:

- · Bay Area Air Quality Management District,
- Monterey Bay Air Resources District,
- North Coast Unified Air Pollution Control District,
- Sacramento Metropolitan Air Quality Management District,
- Santa Barbara County Air Pollution Control District,
- San Diego County Air Pollution Control District,
- San Joaquin Valley Air Pollution Control District,
- San Luis Obispo County Air Pollution Control District, and
- South Coast Air Quality Management District.

EPA has reviewed and approved all of the monitoring agency plans listed above with the exception of

the Great Basin Unified Air Pollution Control District and Sacramento Metropolitan Air Quality Management District, which were submitted late. EPA has provided specific comments on all other plans we received from California local agencies through separate letters and have forwarded these to CARB. Please refer to these responses for additional comments pertinent to CARB's network. We have also highlighted those elements related to CARB sites in local agency plans where EPA is not taking action in Enclosure B.

Please note that we cannot approve portions of the annual network plan for which the information in the plan is insufficient to judge whether the requirement has been met, or for which the information provided does not meet the requirements as specified in 40 CFR 58.10 and the associated appendices. EPA Region 9 also cannot approve portions of the plan for which the EPA Administrator has not delegated approval authority to the regional offices. Enclosure A (A. Annual Monitoring Network Plan Checklist) is the checklist EPA used to review your plan for items that are required to be included in the annual network plan along with our assessment of whether the plan submitted by your agency addresses those requirements. Items highlighted in yellow are those EPA Region 9 is not acting on, as we either lack the authority to approve the specific item, or we have determined that a requirement is either not met or information in the plan is insufficient to judge whether the requirement has been met. Please note that we are not acting on the following system Stockton (AQS ID: 06-077-1003), Chico (AQS ID: 06-007-0008), and Modesto (AQS ID: 06-099-0005) CO monitors: they are required by a CO maintenance plan. The maintenance plan will have to be revised before EPA can approve on these requests. Items highlighted in green in Enclosure A require attention in order to improve next year's plan. All comments conveyed via this letter and enclosures should be addressed prior to submittal of next year's annual monitoring network plan to EPA.

Additionally, EPA supports state and local government partners in advancing environmental justice efforts while ensuring compliance with applicable civil rights laws. To this end, we see an opportunity for all monitoring organizations to address and advance environmental justice in their annual network plans. Through the development and implementation of annual network plans, activities to advance environmental justice could include identifying monitoring sites in or near communities with environmental justice concerns, describing how environmental justice is considered in network design, considering environmental justice factors in siting, relocating, or discontinuing air monitors, and engaging with specific communities when plans are out for public comment. EPA encourages monitoring organizations to continue considering these issues throughout the year, and to convey yearly updates to the public and EPA on these important areas through the annual network plan process. EPA's EJSCREEN mapping and screening tool, including the environmental justice indexes and demographic indicators, may be useful in support of these efforts. We also encourage you to provide us with any suggestions or requests that could further advance environmental justice in your ambient air monitoring programs.

¹ EPA has not received the 2023 Great Basin Unified Air Pollution Control District Annual Network Plan. Sacramento Metropolitan Air Quality Management District's 2023 Annual Network Plan was received by EPA on October 17, 2023. EPA's reviews are forthcoming and are not included in Enclosure B due to the late submittals. EPA will copy CARB on our responses to these plans. Please refer to these upcoming responses for additional comments pertinent to CARB's network.

² U.S. EPA. 2022. EJScreen: Environmental Justice Screening and Mapping Tool, Version 2.0, https://www.epa.gov/ejscreen.

If you have any questions regarding this letter or the enclosures, please feel free to contact me at (415) 972-3134 or Julia Carlstad at (415) 947-4107.

Sincerely,

DENA
VALLANO
Date: 2023.10.30
15:08:24 -07'00'

Dena Vallano, Manager Monitoring and Analysis Section

Enclosures:

A. Annual Monitoring Network Plan Checklist

B. Elements Related to CARB Sites in Local Agency Plans where EPA is Not Taking Action

C. Approval of Relocation of Paradise – Airport to Paradise – Clark

cc (via email): Michael Benjamin, CARB

Michael Miguel, CARB

Jin Xu, CARB

Alicia Adams, CARB

Sunghoon Yoon, CARB

Manisha Singh, CARB

Kathleen Gill, CARB

Michael Werst, CARB

Melissa Niederreiter, CARB

C. Approval of Relocation of Paradise - Airport to Paradise - Clark

This enclosure provides the U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board (CARB) relocation of the O₃ State/Local Air Monitoring Station (SLAMS) monitor from the Paradise - Airport site (Air Quality System (AQS) Site ID: 06-007-0007) to the Paradise - Clark site (AQS ID: 06-007-2003). On July 18, 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 Paradise – Airport monitoring site due to logistics beyond CARB's control (i.e., aging site infrastructure, internet communications, and end-of-lease inquiries from the property owners). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors. CARB also included in this request the relocation of a non-FEM PM_{2.5} monitor located at the Paradise – Theater monitoring site, but since this is a non-regulatory monitor, EPA approval is not required for this relocation, and it is outside the scope of this letter.

The Paradise – Airport O₃ monitor was not eligible for removal under 40 CFR 58.14(c)(1) - (c)(5). This monitor relocation was 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 Paradise - Airport site was located at 4405 Airport Road, Paradise, CA 95969. The relocation site, Paradise - Clark site, is located at 5921 Clark Road, Paradise, CA 93277, approximately 3.5 miles north of the original site location. Both sites have a regional scale of representation, meaning they are expected to have relatively uniform land use hundreds of kilometers spatial range. Both sites are in an area characterized by residential and undeveloped land use. The original and proposed relocation site are expected to measure similar O₃ 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 wind roses of data collected at Paradise –Airport from January 2019 through December 2021, and indicated that winds are expected to be similar at Paradise - Clark. The primary wind direction at Paradise - Airport was northeast during fall, winter, and spring, and southwest during summer. CARB also stated that limited parallel monitoring at both sites is also planned, but the data from that parallel monitoring was not available at the time of the request.

Based on the assessment of the scale of representation and discussion of wind data from Paradise - Airport, 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 Paradise - Airport O₃ SLAMS monitor to the proposed site, Paradise - Clark. 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 enclosure and include the relevant monitor and site information in your next Annual Monitoring Network Plan.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX 75 Hawthorne Street San Francisco, CA 94105-3901

OFFICE OF THE REGIONAL ADMINISTRATOR

May 30, 2023

Kathleen Gill
Chief, Air Quality Surveillance Branch
California Air Resources Board
1001 I Street
P.O. Box 2815
Sacramento, California 95812

Dear Kathleen Gill:

This letter provides the U.S Environmental Protection Agency's (EPA) review and approval for the California Air Resource's Board (CARB) discontinuation of the CO State/Local Air Monitoring Station (SLAMS) monitor at the Calexico ((Air Quality System (AQS) Site ID: 06-025-0005) monitoring site. A letter requesting EPA approval of this network change was submitted to EPA on September 9, 2022. This letter also included a request for closure for the CO SLAMS monitors at Chico – East (AQS Site ID: 06-007-0008), Stockton – University Park (AQS Site ID: 06-077-1003), and Modesto -14th Street (AQS Site ID:06-099-0005), and EPA is still reviewing those requests. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. EPA has reviewed CARB's discontinuation request and data associated with this monitor and concluded that the criteria contained in 40 CFR 58.14(c)(1) are met for the Calexico site; EPA therefore approves discontinuation of the CO SLAMS monitor at the Calexico site.

Discontinuation of the Calexico CO SLAMS monitor was reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1). According to certified data submitted to EPA's AQS, the Calexico CO monitor was in attainment of the 1971 1-hour CO and 8-hour CO National Ambient Air Quality Standards (NAAQS) based on the five most recent design values (design values 2018-2022, encompassing data years 2016-2022). EPA has determined that, based on design values from 2018-2022, there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at this site. The Calexico CO monitor is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. This monitor is not needed to fulfill 40 CFR 58 Appendix D CO minimum monitoring requirements. Therefore, the closure of the Calexico monitoring site will not prevent CARB from meeting 40 CFR 58 Appendix D requirements.

Based on these analyses, EPA approves CARB's discontinuation of the Calexico CO SLAMS monitor. Please include this enclosure and the relevant monitor and site information in next year's 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 Digitally signed by DENA VALLANO Date: 2023.05.30 09:39:20 -07'00'

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

cc (via email): Mike Miguel, CARB
Michael T. Benjamin, CARB
Sylvia Vanderspek, CARB
Mac McDougall, CARB
Adolfo Garcia, CARB
Walter Ham, CARB
Manisha Singh, CARB

Jin Xu, CARB

Melissa Niederreiter, CARB

SACRAMENTO METROPOLITAN



September 7, 2023

Ms. Dena Vallano Air Quality Analysis Office U.S. Environmental Protection Agency, Region IX 75 Hawthorne Street San Francisco, CA. 94105

Subject: Update on PAMS Monitoring at Sacramento- Del Paso Manor, (AQS ID: 06-067-0006)
Ambient Air Monitoring Site

Dear Ms. Vallano,

The District sent a request on December 20, 2022 to the Environmental Protection Agency (EPA) requesting approval to remove speciated VOC measurements and reactive oxides of nitrogen from Folsom-Natoma Street and speciated VOC measurements from Elk Grove Bruceville station. The request was approved through a letter from EPA received on March 20, 2023. This letter is to provide a status update on the additional information provided in the December 20, 2022 letter on the malfunction status of the VOC Xontech 910A sampler and Carbonyl Xontech 925 sampler at the Del Paso Manor station since 2021.

Renovation and construction work at Sacramento Del Paso Manor has taken significantly longer than expected due to station power needs and complications. The District is working with appropriate parties to bring enough power to the area to operate the station properly. While we are working diligently on the renovation to accommodate the new PAMs re-engineering requirements, the process has been delayed significantly. Therefore, VOC and carbonyl sampling at the Del Paso Manor site is not expected to resume until summer 2024.

We look forward to discussing this further if necessary. If you have any questions, please contact Janice Lam Snyder at illam@airquality.org or (916) 491-0929.

Sincerely,

Mark S. Leutzenhiser

Mark Loutzenhiser
Division Manager
Monitoring, Planning, and Rules Division
Sac Metro Air Quality Management District

CC:

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



TECHNICAL MEMORANDUM

EL CENTRO, CALIFORNIA PM_{2.5} FILTER BASED SAMPLING SHUTDOWN

April 18, 2024

Monitor ID:

06-025-1003

Parameter:

88101

Screening Group:

San Diego APCD

Site Address:

150 S 9th Street, El Centro, CA

Justification for the shutdown of the R & P Model 2025 PM_{2.5} Sequential Air Sampler w/VSCC (Sampler) on January 18, 2022.

TABLE A - HISTORICAL MONITORING METHODS IN EL CENTRO

Begin Date	End Date	Method Code	Filter Based Sample Collection
Jan 01, 1999	Jan 25, 2002	120	Anderson RAAS2.5-300 PM2.5 Seq w/WINS
Jan 26, 2002	Dec 31, 2004	118	R & P Model 2025 PM2.5 Sequential w/WINS
Jan 01, 2005	Jun 30, 2006	120	Anderson RAAS2.5-300 PM2.5 Seq w/WINS
Jul 01, 2006	Apr 01, 2016	118	R & P Model 2025 PM2.5 Sequential w/WINS
Apr 02, 2016		145	R & P Model 2025 PM2.5 Sequential air sampler w/VSCC
Nov 15, 2021		209	Met One BAM-1022 Mass Monitor w/VSCC Beta Attenuation or TE-PM2.5C

As noted above, PM_{2.5} sampling has occurred at the El Centro monitoring site since January 1, 1999, using gravimetric sampling on a 1:3-day sampling schedule. As part of the quality assurance monitoring staff conducted one-point flow rate verifications every 30 days separated by 14 days. As a practical matter, staff conducted one-point flow rate verifications every 14 days.

On May 14, 2021, the Sampler located at the Brawley Air Monitoring station failed a one-point flow verification. On May 17, 2021, the Air District reached out to the San Diego Air Pollution Control District (SDAPCD) to discuss and confer on the issues with the Brawley Sampler and next steps. Immediately after confirming a conference call with the United States Environmental Protection Agency (U.S. EPA), the Air District reached out the California Air Resources Board (CARB) for assistance. During these discussions, the Air District requested the replacement of the Brawley and El Centro Samplers with continuous air monitoring instruments.

On June 21, 2021, CARB responded via email addressing two issues regarding the use of a BAM-1022 in the network at the Brawley monitoring station and the permanent network changes at Brawley and El Centro air monitoring stations. Despite U.S. EPA considering the proposal a method change and not a discontinuation, thus not requiring a letter or parallel

¹ Email from CARB, Leah Mathews to Imperial County, Monica Soucier, dated June 21, 2021



TECHNICAL MEMORANDUM

monitoring, SDAPCD required a letter to update the Air Quality System maintained by U.S. EPA and CARB required parallel sampling.²

On November 12, 2021, the Air District installed a BAM 1022 and commenced a zero-background test which ended November 15, 2021.³

On December 22, 2021, the Air District reached out once again to CARB and EPA regarding the shutdown of the Sampler in El Centro constituting notification.⁴ The Air District received a response from U.S. EPA and shut the El Centro Sampler on January 18, 2022.⁵

Attached is the final Chain of Custody indicating the shutdown of the El Centro Sampler.

TABLE B - ONE-POINT FLOW RATE VERIFICATION FOR 2021 AT EL CENTRO

Sample Run	Sample Run	Flow Audit	Flow Audit		Data Review
Begin Date	End Date		Result	Calibration	
Jan 01, 2021	Jan 14, 2021	Jan 14, 2021	Pass	Pass	Annual Calibration performed
Jan 15, 2021	Jan 28, 2021	Jan 27, 2021	Pass		
Jan 29, 2021	Feb 11, 2021	Feb 16, 2021	Pass		
Feb 12, 2021	Feb 25, 2021	Feb 25, 2021	Pass		
Feb 26, 2021	Mar 11, 2021	Mar 16, 2021	Pass		
Mar 12, 2021	Mar 25, 2021	Mar 30, 2021	Pass		
Mar 26, 2021	Apr 08, 2021	Apr 14, 2021	Pass		
Apr 09, 2021	Apr 22, 2021	Apr 29, 2021	Pass		
Apr 23, 2021	May 06, 2021	May 14, 2021	Pass		
May 07, 2021	May 20, 2021	May 27, 2021	Pass		
May 21, 2021	Jun 03, 2021	Jun 14, 2021	Pass		
Jun 04, 2021	Jun 17, 2021	Jun 29, 2021	Pass		
Jun 18, 2021	Jul 01, 2021	Jul 14, 2021	Pass		
Jul 02, 2021	Jul 15, 2021	Jul 28, 2021	Pass		
Jul 16, 2021	Jul 29, 2021	Aug 12, 2021	Pass		
Jul 30, 2021	Aug 12, 2021	Aug 30, 2021	Pass		
Aug 13, 2021	Aug 26, 2021	Sep 08, 2021	Pass		
Aug 27, 2021	Sep 09, 2021	Sep 23, 2021	Pass		
Sep 10, 2021	Sep 23, 2021	Oct 06, 2021	Pass		
Sep 24, 2021	Oct 07, 2021	Oct 14, 2021	Pass	PASS	Semi-Annual Calibration performed
Oct 08, 2021	Oct 21, 2021	Oct 20, 2021	Pass		
Oct 22, 2021	Nov 04, 2021	Nov 02, 2021	Pass		
Nov 05, 2021	Nov 18, 2021	Nov 16, 2021	Pass		
Nov 19, 2021	Dec 02, 2021	Dec 01, 2021	Pass		
Dec 03, 2021	Dec 16, 2021	Dec 16, 2021	Pass		
Dec 17, 2021	Dec 30, 2021	Jan 13, 2022	Pass		
Jan 01, 2022	Jan 18, 2022	Jan 18, 2022	Pass		Instrument Shut Down



² Email from SDAPCD, David Medina to CARB, Harleen Khangura, dated January 19, 2022

³ November 2021 Logbook entries for the El Centro Air Monitoring Station

⁴ Email from Imperial County, Monica Soucier to CARB & U.S. EPA, Greg Gilani & Dena Vallano, dated December 22, 2021

⁵ Email from U.S. EPA, Jennifer Williams, to the Air District, Monica Soucier, dated December 22. 2021

From: Mathews, Leah@ARB
To: Monica Soucier

Cc: <u>Ismael Garcia; Michael Green; Jon Barroga; Matt Dessert; Vallano, Dena; Gilani, Greq@ARB</u>

Subject: RE: Discontinuation of R&P Samplers at the Brawley and El Centro Monitoring Sites

Date: Monday, June 21, 2021 10:34:52 AM

CAUTION: This email originated outside our organization; please use caution.

Good morning all,

I have met internally with AQPSD at CARB, and discussed with U.S. EPA regarding two issues:

- 1. Temporary use of the BAM-1022 in the network at Brawley.
- 2. Permanent network changes at Brawley and El Centro, converting filter based PM2.5 FRMs to continuous BAM-1022 PM2.5 monitoring.

Regarding item 1:

- CARB and U.S. EPA have no concerns and there is no network impact or collocation concerns utilizing a BAM-1022 temporarily at Brawley.
- There will need to be an update to AQS to include this change. CARB will need AQS access to upload data for the site. I will be working with EPA to get this sorted shortly.

Regarding item 2:

- There are no network or collocation impacts should Imperial move permanently to continuous PM2.5 monitoring with a BAM-1022 at El Centro and/or Brawley.
- U.S. EPA considers this a method change, not a discontinuation (unless there will be a major lapse in between the shutdown of the FRM and start of the FEM), so typically would not require a letter or parallel monitoring. A email notification to U.S. EPA or the method change would suffice. This is also consistent with the guidance given by Michael in the letter you attached.
- CARB AQPSD has requested Imperial maintain filter-based monitoring at the El Centro site through the end of the year, for reasons related to data completeness and attainment.
- CARB's AQPSD has requested parallel monitoring between the FRM and the BAM-1022 and at El Centro through the end of the year (I understand we don't know exactly when the new BAM will start at the El Centro site).

Please let me know if you have any questions.

Thank you,

Leah Mathews
Air Pollution Specialist
California Air Resources Board
Email: leah.mathews@arb.ca.gov

Phone: (530) 908-2689

From: Medina, David

To: Khangura, Harleen@ARB; Monica Soucier

Cc: Cooper, Ashley@ARB

Subject: RE: Shutdown of the R&P PM2.5 Unit at El Centro Date: Wednesday, January 19, 2022 12:02:17 PM

Attachments: <u>image001.png</u>

CAUTION: This email originated outside our organization; please use caution.

Hi Leena,

We have not sent filters for the second half of January. Monica had mentioned that CARB would be issuing an official letter for shutdown. I believe you may be working on this with Monica. We would need the letter for our official records since we will shut it down in AQS. We received a similar letter for the Brawley shutdown back in August. Please let me know if you need additional information.

David Medina, Ph. D.

Sr. Air Pollution Chemist

Monitoring and Technical Services Division

Ambient Monitoring Section

david.medina@sdapcd.org

In-Office: M-F, 7 AM – 3:30 PM

10124 Old Grove Rd, San Diego, CA 92131 Phone: (858) 586-2780 Mobile: (858) 935-5866



www.sdapcd.org



From: Khangura, Harleen@ARB < Harleen.Khangura@arb.ca.gov>

Sent: Wednesday, January 19, 2022 11:49 AM

To: monicasoucier < monicasoucier@co.imperial.ca.us>

Cc: Medina, David < David. Medina@sdapcd.org>; Cooper, Ashley@ARB < Ashley. Cooper@arb.ca.gov>

Subject: [External] RE: Shutdown of the R&P PM2.5 Unit at El Centro

Good afternoon Monica and David.

11/12 0845 IT 23.2 OT 25.5 Sunny W@ 3.5 mph 03 Stas 0.3/21.0 NOX 5 Reb 0.7/9.8 BAN 76.7 mg tape ok Set up 1022 to run zero background 03 + NOx weekly QC + filter change Nox Lenk SP 5.1/RC 5.1 1625 16 11/15 1610 17 245 07 361 Summy SEO 316 mph 03 Stab 0.9/35.0 NOX Stab 0,7/ 9,4 BAM 40.7 mg tape ok Ended 1022 zero background test new background = ,0003 left unit Sampling 16 1615 11/16 1620 17 24,2 OF 78.7 Scuttered Cloud NNE@ 4,5 mph 035thb 2.0/36.9 NOX5145 1,0/16.4 BAM 96.7 my tape ok EBAN Leak 0.5 Flow 16.7/16.38 2 Deltacul R+P Lenk 6 Flow 16.70/16.61 J 1096 (9-2-ZI) Londed RtP Filters Downloaded duta 16 1630

From: <u>Monica Soucier</u>
To: <u>Gilani, Greg@ARB</u>

Cc: Vallano, Dena; Kear-Padilla, Lora; Lin.Lu@sdapod.org; Michael Green; Jon Barroga; Ismael Garcia

Subject: Shutdown of the R&P PM2.5 Unit at El Centro
Date: Wednesday, December 22, 2021 9:48:00 AM

Attachments: EMAIL 20210621 Shutdown of R&P Samplers at the Brawely.pdf

El Centro PM 25 BAM 1022.xlsx

Importance: High

Good morning Greg and Dena

I hate the fact that I am sending this so... last minute. Anyway, attached is a June 2021 recap of a conversation acknowledging the shutdown of the R&P unit in Brawley and El Centro. Because, San Diego APCD supplies the filters for the R&P unit there is some urgency to this email request.

The Air District would like to shut down the R&P unit at the El Centro site effective December 31, 2021.

The last bullet point in the attached email indicates parallel monitoring between the FRM and the BAM-1022 at El Centro through the end of the year. There was an acknowledgement that the date of installation of the BAM-1022 at the El Centro site was unknown at the time of the writing of the email.

- The BAM-1022 unit at El Centro finalized the zero background test on November 15, 2021 at 16:10 hours.
- Once San Diego APCD submits the filter weight results into USEPA's AQS comparison data should include approximately 15 filter based samples, assuming no issues, encompassing November 16, 2021 through December 31, 2021.

Again I apologize for the late request **but we do need to let San Diego APCD know by**Monday, December 27, 2021 whether we will require additional filters for the R&P unit for January 2022.

P.S. AQMIS2 currently has data populated back to December 4, 2021.



Monica N. Soucier, MSL

APC Division Manager Planning and Monitoring 150 S 9th Street El Centro, CA 92243 **P.** 442.265.1800 **F.** 442.265.1799 From: Williams, Jennifer

 Monica Soucier; Tsai, Sheila; Kay, Rynda

 Cc:
 Gilani, Greq@ARB; Yoshimura, Gwen

Subject: RE: Shutdown of the R&P PM2.5 Unit at El Centro Date: Wednesday, December 22, 2021 12:55:47 PM

CAUTION: This email originated outside our organization; please use caution.

Hello Monica.

Apologies as I wasn't involved in earlier conversations, but from what I see in the correspondence, El Centro PM2.5 will essentially have a method change-out from an R&P to a BAM 1022, reporting regulatory data? If that is the case, EPA approval is not required, but will note QA collocation should be re-assessed if necessary, and this change should be reflected in future air monitoring network plans and in AQS.

Please let me know if you have any questions.

Thanks, Jennifer

From: Monica Soucier < Monica Soucier@co.imperial.ca.us>

Sent: Wednesday, December 22, 2021 10:18 AM

To: Williams, Jennifer < Williams, Jennifer@epa.gov>; Tsai, Sheila < Tsai. Sheila@epa.gov>; Kay, Rynda < Kay.Rynda@epa.gov>

Cc: Gilani, Greg@ARB < greg.gilani@arb.ca.gov>

Subject: Shutdown of the R&P PM2.5 Unit at El Centro

Importance: High

Hi

I sent this to Dena and Gwen both had Auto replies – So I am forwarding to you all



Monica N. Soucier, MSL

APC Division Manager Planning and Monitoring

150 S 9th Street

El Centro, CA 92243

P. 442.265.1800

F. 442.265.1799

From: Monica Soucier

Sent: Wednesday, December 22, 2021 9:48 AM **To:** Gilani, Greg@ARB < greg.gilani@arb.ca.gov>

SAN DIEGO AIR POLLU" 'N CONTROL DISTRICT 24-HOUR FIELD SAMPLE/CHAIN OF CUSTO. / REPORT FOR PM2.5 SEQUENTIAL SAMPLER

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

75 Hawthorne Street San Francisco, CA 94105-3901

October 28, 2022

Sylvia Vanderspek, Chief Air Quality Planning Branch California Air Resources Board Post Office Box 2815 Sacramento, California 95812

Dear Chief Vanderspek:

Thank you for your submission of the California Air Resources Board (CARB) Annual Network Plan Covering Monitoring Operations in 25 California Air Districts, July 2022 ("Plan") on June 29, 2022. We have reviewed the submitted document based on the requirements set forth in 40 CFR Part 58. Based on the information provided in the plan, the U.S. Environmental Protection Agency (EPA) approves all portions of the network plan except those specifically identified below. With this plan approval, we also formally approve the O₃ season waivers for five O₃ sites: Echo Summit (Air Quality System (AQS) ID: 06-017-0012), Cool (AQS ID: 06-017-0020), Jerseydale (AQS ID: 06-043-0006), Sutter Buttes (AQS ID: 06-101-0004), and Tuscan Butte (AQS ID: 06-103-0004) for November 2022-March 2023. Please note that an updated request including 2022 data will be required for future ozone season waiver approvals after March 31, 2023. More information about these approvals is included in Enclosure A. With this plan approval, we also formally approve the following system modifications: the discontinuation of White Cloud O₃ SLAMs monitoring (AQS ID: 06-057-0007), and the discontinuation of Anderson Springs (AQS ID: 06-033-3010) and Glenbrook (AQS ID: 06-033-3011) PM₁₀ SLAMS monitoring. More information about these approvals is included in enclosures C and D, respectively.

In the State of California, ten district monitoring agencies submitted annual monitoring network plans this past year in accordance with 40 CFR 58.10. EPA received plans covering the 2021 calendar year from:

- Bay Area Air Quality Management District,
- Great Basin Unified Air Pollution Control District,
- · Monterey Bay Air Resources District,
- North Coast Unified Air Pollution Control District,
- Sacramento Metropolitan Air Quality Management District,
- Santa Barbara County Air Pollution Control District,
- San Diego County Air Pollution Control District,
- San Joaquin Valley Air Pollution Control District,
- San Luis Obispo County Air Pollution Control District, and
- · South Coast Air Quality Management District.

EPA has reviewed and approved all of the monitoring agency plans listed above with the exception of the Great Basin Unified Air Pollution Control District, Sacramento Metropolitan Air Quality Management District, and San Joaquin Valley Air Pollution Control District plans, which were submitted late. EPA has provided specific comments on all other plans we received from California local agencies through separate letters and have forwarded these to CARB. Please refer to these responses for additional comments pertinent to CARB's network. We have also highlighted those elements related to CARB sites in local agency plans where EPA is not taking action in Enclosure B.

Please note that we cannot approve portions of the annual network plan for which the information in the plan is insufficient to judge whether the requirement has been met, or for which the information provided does not meet the requirements as specified in 40 CFR 58.10 and the associated appendices. EPA Region 9 also cannot approve portions of the plan for which the EPA Administrator has not delegated approval authority to the regional offices. Enclosure A (A. Annual Monitoring Network Plan Checklist) is the checklist EPA used to review your plan for items that are required to be included in the annual network plan along with our assessment of whether the plan submitted by your agency addresses those requirements. Items highlighted in yellow are those EPA Region 9 is not acting on, as we either lack the authority to approve the specific item, or we have determined that a requirement is either not met or information in the plan is insufficient to judge whether the requirement has been met. Items highlighted in green in Enclosure A require attention in order to improve next year's plan. All comments conveyed via this letter and enclosures should be addressed prior to submittal of next year's annual monitoring network plan to EPA.

Additionally, EPA supports state and local government partners in advancing environmental justice efforts while ensuring compliance with applicable civil rights laws. To this end, we see an opportunity for all monitoring organizations to address and advance environmental justice in their annual network plans. Through the development and implementation of annual network plans, activities to advance environmental justice could include identifying monitoring sites in or near communities with environmental justice concerns, describing how environmental justice is considered in network design, considering environmental justice factors in siting, relocating, or discontinuing air monitors, and engaging with specific communities when plans are out for public comment. EPA encourages monitoring organizations to continue considering these issues throughout the year, and to convey yearly updates to the public and EPA on these important areas through the annual network plan process. EPA's EJSCREEN mapping and screening tool, including the environmental justice indexes and demographic indicators, may be useful in support of these efforts.² We also encourage you to provide us with any suggestions or requests that could further advance environmental justice in your ambient air monitoring programs.

-

¹ EPA received the Great Basin Unified Air Pollution Control District's 2022 Annual Air Quality Monitoring Network Plan on August 22, 2022, Sacramento Metropolitan Air Quality Management District's 2022 Annual Network Plan on Sept 12, 2022, and San Joaquin Valley Air Pollution Control District's 2022 Air Monitoring Network Plan on October 11, 2022. EPA's reviews are forthcoming and are not included in Enclosure B due to the late submittals. EPA will copy CARB on our responses to these plans. Please refer to these upcoming responses for additional comments pertinent to CARB's network.

² U.S. EPA. 2022. EJScreen: Environmental Justice Screening and Mapping Tool, Version 2.0, https://www.epa.gov/ejscreen.

If you have any questions regarding this letter or the enclosures, please feel free to contact me at (415) 947-4134 or Dena Vallano at (415) 972-3134.

Sincerely,

Yoshimura, Gwen Gwen Date: 2022.10.28 13:48:31 -07'00'

Gwen Yoshimura, Manager Air Quality Analysis Office

Enclosures:

- A. Annual Monitoring Network Plan Checklist
- B. Elements Related to CARB Sites in Local Agency Plans where EPA is Not Taking Action
- C. Approval of Discontinuation of White Cloud O₃ SLAMS monitoring
- D. Approval of Discontinuation of Anderson Springs and Glenbrook PM₁₀ SLAMS monitoring

cc (via email): Michael Benjamin, CARB

Michael Miguel, CARB

Jin Xu, CARB

Alicia Adams, CARB

Sunghoon Yoon, CARB

Manisha Singh, CARB

Kathleen Gill, CARB

Michael Werst, CARB

Melissa Niederreiter, CARB

D. Approval of Discontinuation of Glenbrook and Anderson Springs PM₁₀ SLAMS monitoring

Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. On December 21, 2021, Lake County Air Quality Management District (LCAQMD) sent a letter to EPA describing the proposal to discontinue PM₁₀ SLAMS monitoring at the Anderson Springs (Air Quality System (AQS) Site ID: 06-033-3010) and Glenbrook (AQS Site ID: 06-033-3011) monitoring sites. The closure date for PM₁₀ monitoring at both sites was December 31, 2021 due to resource constraints on their monitoring program and the desire to divert existing resources to more critical monitoring activities. Discontinuation of the PM₁₀ SLAMS monitors were reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1) and 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 National Ambient Air Quality Standard (NAAQS) and if the requirements of appendix D to this part, if any, continue to be met." EPA has reviewed LCAQMD's request and data associated with these monitors and concluded that the criteria contained in 40 CFR 58.14(c)(1) are met for the Glenbrook site and the criteria contained in 40 CFR 58.14(c) are met at the Anderson Springs site as described below; EPA therefore approves discontinuation of PM₁₀ SLAMS monitoring at the Glenbrook and Anderson Springs sites.

EPA has reviewed and concluded that the criteria contained in 40 CFR 58.1(c)(1) are met for the Glenbrook PM₁₀ SLAMS monitor. The Glenbrook PM₁₀ monitor was in attainment of the 1987 24-hour PM₁₀ NAAQS based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at this site. This monitor is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. This monitor is not needed to fulfill 40 CFR 58 Appendix D PM₁₀ minimum monitoring requirements. Therefore, the closure of the Glenbrook monitoring site will not prevent LCAQMD from meeting 40 CFR 58 Appendix D requirements.

EPA has reviewed and concluded that the criteria contained in 40 CFR 58.1(c) are met for the Anderson Springs PM₁₀ SLAMS monitor. The Anderson Springs PM₁₀ monitor was in attainment of the 1987 24-hour PM10 NAAQS based on the 2019-2021 design values; the 2017 and 2018 design values were invalid due to incomplete quarters in 2015 and 2016⁹. No 24-hour PM₁₀ exceedances were recorded from calendar years 2015 through its closure in 2021. Based on the historical data record, we would not expect exceedances to have occurred during the periods of missing data. This monitor is not specifically required by an attainment or maintenance plan. Therefore, the closure of the Anderson Springs monitoring site does not compromise data collection needed for implementation of the PM₁₀ NAAQS

⁹ The Anderson Springs PM₁₀ monitor closed temporarily between 9/14/2015 and 6/30/2016. This monitor therefore had one incomplete quarter in 2015 and two incomplete quarters in 2016 that resulted in invalid 2017 and 2018 design values for the 1987 24-hour PM₁₀ NAAQS.

LCAQMD currently operates one other PM₁₀ SLAMS site in the Clearlake Micropolitan Statistical Area, Lakeport-S. Main Street (AQS ID: 06-033-3002), exceeding 40 CFR 58 Appendix D minimum monitoring requirements for the area. Therefore, the closure of the Anderson Springs monitoring site will not prevent LCAQMD from meeting 40 CFR 58 Appendix D requirements.

Based on these analyses, EPA approves LCAQMD's discontinuation of the Glenbrook and Anderson Springs PM₁₀ SLAMS monitors. Please include this enclosure and the relevant monitor and site information in next year's annual monitoring network plan.



Antelope Valley Air Quality Management District 43301 Division St., Suite 206 Lancaster, CA 93535-4649

661.723.8070

In reply, please refer to AV1122/226

November 14, 2022

Gwen M. Yoshimura Air Quality Analysis Office, Manager U.S. EPA Region 9 75 Hawthorne Street Mail Code: AIR-7 San Francisco, California 94105

Dear Ms. Yoshimura:

The Antelope Valley Air Quality Management District (AVAQMD) is requesting approval from U.S. EPA to relocate all monitors operating at our 43301 Division Street site (Site ID:060379033) to a new location at the Antelope Valley Lancaster Fairgrounds, 2551 West Avenue H in Lancaster, CA (34.725389, -118.178601).

This relocation is a result of AVAQMD being informed by the 43301 Division Street property manager that the lease would not be renewed and AVAQMD must vacate the property no later than December 2022. Upon this notification, the District evaluated various new site locations in the area, and settled on the Fairgrounds as the preferred new site location. This preference was based on a variety of reasons, including that the Fairgrounds Board and AVAQMD Board share many of the same members, ensuring AVAQMD control and access over the Fairgrounds property (avoiding future moves), easily meeting 40 CFR 58 Appendix E sitting requirements, and the logistical advantage of the site located on the same property as AVAQMD offices.

AVAQMD initiated parallel monitoring (performed by Mojave Desert AQMD), reviewed details of the Fairgrounds location, reviewed historical pollutant patterns from the Division site, evaluated local sources for both locations and spatial scales, and evaluated if any monitors qualify for shutdown. The details of the parallel monitoring and these other investigations performed are attached as Appendix A.

AVAQMD believes all monitors qualify for re-location based on 40 CFR 58.14 (b). Additionally, it appears Nitrogen Dioxide qualifies for shutdown under 40 CFR 58.14 (c) 1 and 3 and PM2.5 qualifies for shutdown under 40 CFR 58.14 (c) 1. Note that AVAQMD is not requesting shutdown, just relocation of these monitors.

Upon approval of this request, AVAQMD will request that CARB include a discussion and documentation of this relocation in the 2023 Annual Network Plan.



Please contact me at 661-803-6122 or our consultant, Joel Craig at 805-712-5701 if we can answer any questions or provide any further information.

Sincerely,

Bret Banks

Air Pollution Control Officer

Cc (via email): Joel Craig, Consultant to AVAQMD

Greg Gilani, CARB

Sheila Tsai, EPA Region 9

PROPOSED SITE RELOCATION SUMMARY:

The Antelope Valley Air Quality Management District (AVAQMD) requests EPA approval to move the Lancaster (06-037-9033) air monitoring site from 43301 Division Street to the Lancaster Fairgrounds, 2551 W. Avenue H in the city of Lancaster, CA (34.725389, -118.178601).

Since its inception on July 1, 1997, the AVAQMD conducted air monitoring operations in the District office complex located at 43301 Division Street, Suite 206, Lancaster CA. In January 2022 AVAQMD was informed by the 43301 Division Street property manager that the lease would not be renewed and AVAQMD must vacate the property no later than December 2022. The need to vacate the Division Street location creates a logistical problem beyond the Districts control to continue monitoring operations at the Division Street location.

Upon receiving notification of the need to vacate, the District requested Mojave Desert Air Quality Management District (MDAQMD) staff begin parallel monitoring at the new District office location, the Lancaster Fairgrounds, in preparation for a relocation request. Early in the parallel monitoring period, Mojave staff met with Adolfo Garcia of CARB at the Fairgrounds location to discuss the site move. Adolfo liked the openness of the Fairgrounds site and did not note any issues to be concerned with. Mojave staff utilized a small home-made trailer set up to house air monitoring instrumentation, only large enough for the equipment and one person to crawl into. Performing temporary mobile monitoring is a challenging endeavor under these circumstances. Ozone, PM10, PM2.5, and meteorological parameters began officially recording data in January 2022. Gathering ozone data from the mobile site was quite successful until the monitor was needed for another project and was removed on 6/15/22. The PM measurements were made with a Teledyne T-640x optical instrument and unfortunately on 6/30/22 it was confirmed by Mojave staff that the instrument was operating way out of specification and was adjusted back into specification on that day. Detailed review of QC data from the T-640 confirmed that data prior to the 6/30/22 adjustment could not be validated. This issue limits the PM data available for parallel comparisons. Because of the added complexity of NO2 monitoring and that the NO2 data from the existing Division Street site would easily qualify for shutdown due to a lack of high measurements, no NO2 parallel monitoring was performed.

The District agrees with comments that it would be best to have parallel monitoring data for all seasons of the year. However, that is seldom possible in most site relocations, and considering shortage of equipment and the failed QC checks on the PM monitor resulting in the first 6 month of data being unusable, won't be logistically possible in this situation. The District needs some time prior to December 31, 2022 to accomplish the move and have the Division site building restored to original condition (reroofing where inlet penetrations were made and removing the hatch to access the roof). Additionally, if parallel monitoring was continued until mid November (to provide time to restore Division street location to original condition), the District would not have other options to move the site. So it appears to deal with logistical issues, the parallel data available now is the best that can be accomplished. Data plots have been updated to include the latest PM data, that covers the some of the fall season.

Reviewing the historical data from the Division street site can be a good indication of how seasonal changes would influence different pollutant concentrations. Review of 2021 data show the highest PM2.5 and PM10 concentrations do occur in the fall. This is somewhat different for PM2.5 in other parts of the state where higher concentrations do occur in the winter months. So this suggests the lack

of winter parallel data for PM parameters would not miss the peak seasonal concentrations. As noted, the parallel PM data available in this analysis runs through mid September, so does include part of the season where highest PM values were seen in the Division street historical data.

Close examination of the high PM values for 2021 at the Division Street site, shows that these very few episode days are always either due to state-wide high energy wind event (10/11/2021) or wildfire smoke impacts (8/16/2021) and 9/23/2021. The high energy wind event showed a PM2.5/10 ratio below 10% elevated windspeeds and high values recorded across much of the state. The wildfire smoke impacts had PM2.5/10 ratio $^{\circ}60-70\%$, lower windspeeds and other impacted sites in the area.

Another comment received by the District is that the Fairgrounds site measures higher wind speeds, which could result in higher PM concentrations. It is true that the parallel wind data does show somewhat higher wind speeds occurring at the Fairgrounds site. However, it is important to consider that the Division street site has some significant obstructions just upwind of the wind sensor that likely are reducing the wind speed where the sensor is located. In contrast, the Fairgrounds wind sensor is in a very open space with low surface roughness surrounding the location and no nearby obstructions nearby. A photo and more discussion of this issue is presented in the following section discussion the parallel wind comparisons.

The table below summarizes the current site monitor details (taken from CARB 2022 Annual Network Plan):

Site Name		Lancas	ter-Division Street							
AQS ID		06-03	'-9033							
GIS coordinates		34.669	59, -118.13068							
Address	4.		Division St, Lancaster, CA 935	35						
County		A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	geles County	114.007						
Dist. to road	5		eters to Sierra Hwy, 47 meters	to Division Street						
Traffic count			ailable							
(AADT, year)		the acres to	allabio							
Groundcover		Aspha	t							
Representative		Los Ar	Los Angeles-Long Beach-Anaheim Metropolitan Statistical							
area		Area	700.	9232						
Pollutant, POC	Ozone,1	NO2,1	PM _{2.5} ,1	PM ₁₀ ,2						
Monitor Type	SLAMS	SLAMS	SLAMS	SLAMS						
Network	NA	NA	NA	NA						
Affiliation										
Parameter Code	44201	42602	88101	81102						
Monitoring	NAAQS, public	NAAQS, publi	c NAAQS, public	NAAQS, public						
Objective	- 199	9000 95 NOIF		- VANDO						
Site type(s)	population	Population	population	population						
MFG/ Model	TAPI 400	TAPI 200	BAM 1020	BAM 1020						
Method Code	087	99	170	122						
FRM/FEM or	FEM	FRM	FEM	FEM						
other	3									
Collecting Agency	Antelope Valley	Antelope Valle		Antelope Valley						
Reporting Agency	Antelope Valley	Antelope Valle		Antelope Valley						
Spatial Scale	Middle	Middle	Neighborhood	Neighborhood						
Start date	11/1/2001	11/1/2001	11/1/2001	11/1/2001						
Operation	Continuous	Continuous	Continuous	Continuous						
schedule										
Sampling season	All Year	All Year	All Year	All Year						
Probe height	6.4 m	6.4 m	6.5 m	6.4 m						
Distance from	1.9 m	1.9 m	2 m	2 m						
supporting										
structure	4000	Person		600						
Distance from	None	None	None	None						
obstructions on										
roof	F1	N1	5N.1	***						
Distance from	None	None	None	None						
obstructions not										
on roof Distance from	>10 meters	>10 meters	>10 meters	>10 meters						
trees	>10 mereiz	>10 meters	>10 mereiz	>To merera						
Distance to	None	None	None	None						
furnace or	None	None	ivone	None						
incinerator										
Unrestricted	360°	360°	360°	360°						
airflow										

For low volume	NA	NA	No	No
PM instruments,	74 MAPP 17 YOUR	- 10000000		***************************************
is any PM				
instrument within				
1 m of the lo-vol?				
If yes, please list				
distance (meters)				
and				
instrument(s).				
Probe material	Teflon	Teflon	N/A	N/A
Residence time	15.8 s	16.3 s	N/A	N/A
Will there be	Yes-Proposed	Yes-Proposed	Yes-Proposed Move	Yes-Proposed Move
changes in next	Move	Move		
18 months?				
Frequency of	Every two	Every two Weeks	N/A	N/A
one-point QC	Weeks			91001
check (gaseous)				
Frequency of	N/A	N/A	Monthly	Monthly
flow rate	***	9.4		146
verification for				
automated PM				
analyzers				
Last annual	9/14/2021	9/14/2021	N/A	N/A
performance				
evaluation				
(gaseous)				
Last two semi-	N/A	N/A	3/25/2021	3/25/2021
annual flow rate			9/14/2021	9/14/2021
audits for PM				NAT 222
monitors				
Is it suitable for	N/A	N/A	N/A	Yes
comparison				
against the				
annual PM _{2.5} ?				

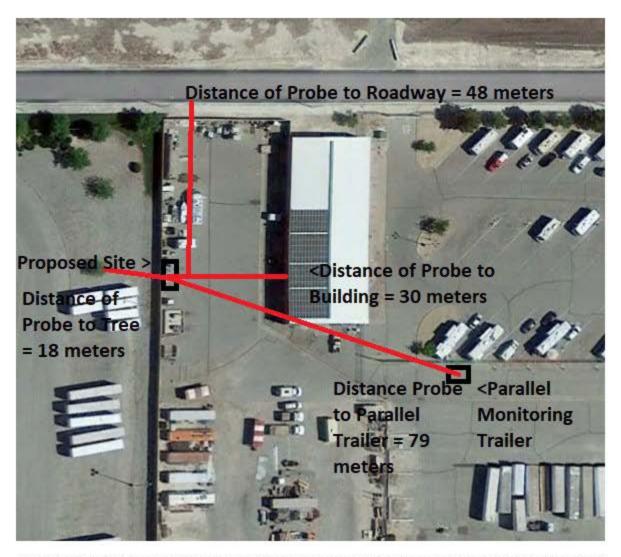
PROPOSED NEW SITE DETAILS:

The proposed new site (Lancaster Fairgrounds) will be located in a paved storage area in the northwest portion of the fairground complex. This area is adjacent to the maintenance building and is used for long term storage of equipment. The stored equipment and supplies in this area do not protrude above the site inlets.

The aerial view below shows the proposed site location and the existing Division Street site location:



The aerial view below shows a close up of the proposed site location, the location where parallel monitoring was performed, and distances to potential obstructions and nearby roadways.



The aerial view below shows the entire Fairgrounds complex to present distance to higher traveled roadways in the area:



The image below shows the specific location of the proposed site. Note that equipment currently stored in this area will be moved to allow the site shelter to be located close to the wall.



The proposed site will utilize an 8'X20' modified cargo container for the temperature-controlled shelter with all sample probe inlets located 2 meters above the shelter roof and approximately 4.6 meters above ground level. A ten meter tower will be utilized for the meteorological sensors.

Evaluation of the proposed site shows it meets all siting criteria in 40 CFR 58 Appendix E and will be described as such in the next Annual Network Plan. There are no trees within 10 meters, the closest tree dripline is approximately 18 meters from the probe. The only obstruction is the maintenance building to the east of the proposed site that is greater than two times the distance the building protrudes above the probe height. The closest roadway, has an estimated daily traffic count of <250 (Ave G8), is 48 meters from the probe. The next closest roadway is over 450 meters away. The area due west of the proposed site (west of the wall) is covered with thick gravel or paved, as shown in the image below:

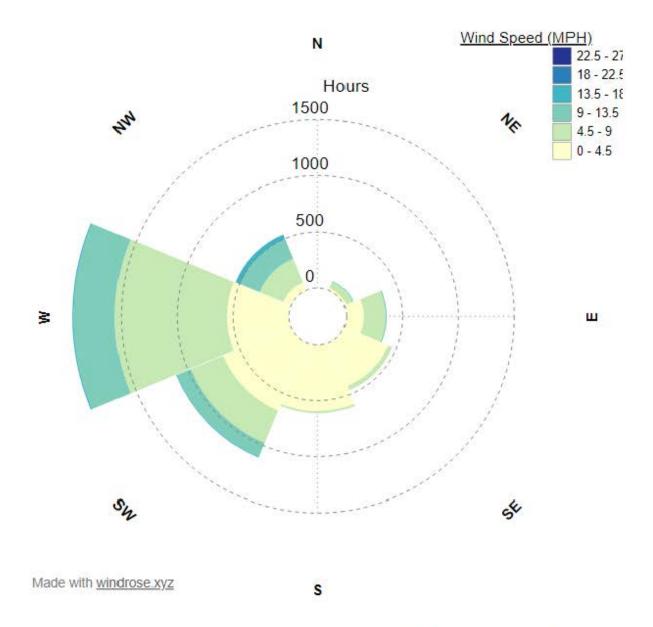


Parallel monitoring was performed by Mojave Desert Air Quality Management District (MDAQMD) for some of the measured parameters, including wind direction and wind speed. Below are windroses for the existing Division Street site and the proposed Fairgrounds site.

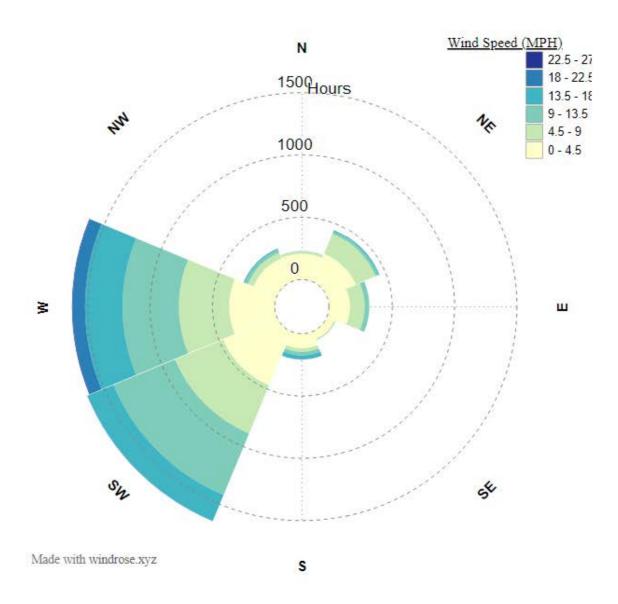
When evaluating wind data, it is important to first consider the sensor exposure. Sensors located in an open area, without any nearby obstructions and low surface roughness, will measure significantly higher wind speeds than a sensor located with nearby obstructions and a high surface roughness. Some of the minor differences in wind patterns are likely due to differences in the two site's sensor exposure and surrounding surface roughness. The Division Street site sensor, shown in the following picture is mounted about 3 meters above the roof, and about 7.5 meters above ground level and has numerous buildings nearby, resulting is significant surface roughness in the vicinity. The nearby rooftops and the wall due west of the sensor are upwind of the sensor for the predominate wind direction and are about

as high as the sensor itself (wall). So the obstructions are biasing the winds measured by the sensor. In contrast, the parallel monitoring wind sensors were mounted about 3 meters above the mobile trailer (used for parallel monitoring) rooftop, and about 4.5 meters above ground level. The parallel monitoring location does not have any significant obstructions upwind from the predominate wind direction resulting in much less surface roughness. Even with the noted differences in sensor exposure, the general wind pattern is quite similar for the two locations. It is likely that the winds in the vicinity of both sites are quite similar in most cases, just that the obstructions at the Division street site lower the wind speed where the sensor is located.





Existing Division Street Site Windrose 1/1/2022 through 8/2/2022



Proposed Fairgrounds Site Windrose 1/1/2022 through 8/2/2022

Evaluating Local Source Impacts and Site Spatial Scale

There are no known non-vehicular associated significant combustion sources in the vicinity of the existing Division Street site or the proposed Fairgrounds site.

Local Vehicular Sources-

Division Street Site:

- The parking lot for the building complex where the site is located is approximately 23 meters
 east of the site probe. There would only be sporadic emissions from vehicles in the parking lot.
- Division Street edge is about 34 meters (based on Goggle Earth measurements) east of the site probe (note that the previous existing site table taken from CARB annual network plan appears to be in error and also incorrect in AQS). Division Street in this area has a listed ADVT of 13,757¹.
- A railroad that has occasional, but regular traffic is located about 90 meters to the west of the probe. It is estimated that once to twice a day railroad traffic is present.
- Sierra Highway is located about 118 meters west of the site probe. The Sierra Highway is a
 major thoroughfare through Lancaster and Palmdale with a listed ADVT in this area of 20,450¹.
- A heavy equipment storage area is located about 78 meters to the south of the site probe.
 Heavy industrial vehicles will periodically be emitting in this storage area in order to move the heavy equipment.

Fairgrounds Site:

- Avenue G8 is located about 48 meters north of the proposed probe and has very little traffic as it is only used to access the northern portion of the Fairgrounds Complex.
- Sporadic vehicular activity in the storage area where the proposed site will be located will occur. This activity will be very rare, typically only to move stored equipment in/or.
- Parking for the maintenance building is located about 25 meters to the west of the proposed probe. Only sporadic vehicular activity accessing the parking lot occurs.
- RV parking that begins about 76 meters to the west of the proposed probe potentially could have occasional gasoline generator operation (as well as occasional RV traffic) emissions.
- A Rite-Aid warehouse container storage area where industrial vehicular traffic occasionally is
 present is located (area where vehicles can operate) beginning about 27 meters to the west of
 the proposed probe. Observations by District staff of the operation at this facility show that the
 area adjacent to the proposed site is only a storage area for containers and have only rare
 vehicular activity to move stored containers.
- As noted about the other roadways in the area are over 450 meters from the proposed site location and are not heavily traveled roadways (Ave H has a listed ADVT of only 3,750).

¹ Traffic Count | City of Lancaster (cityoflancasterca.org)

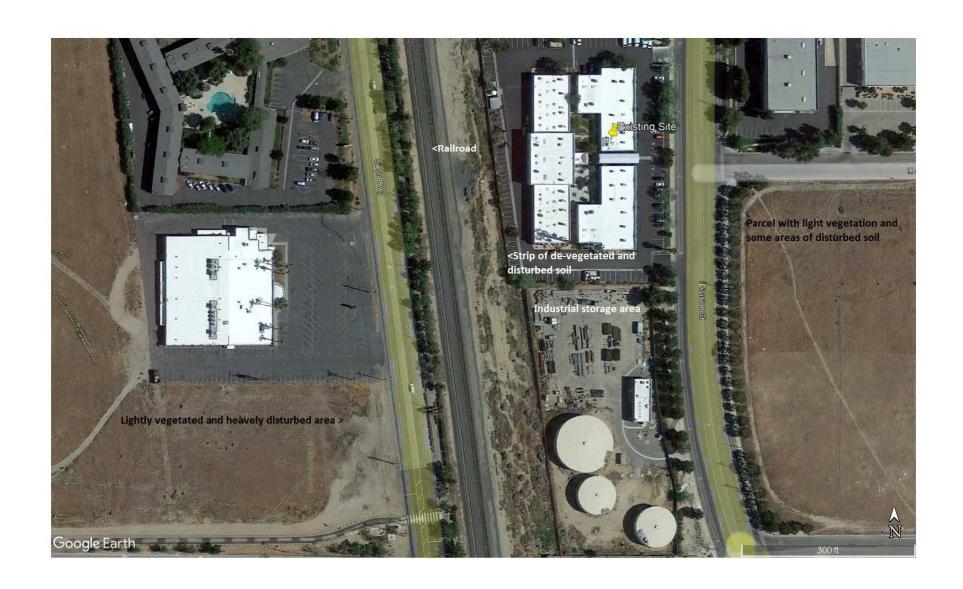
Local Dust Sources-

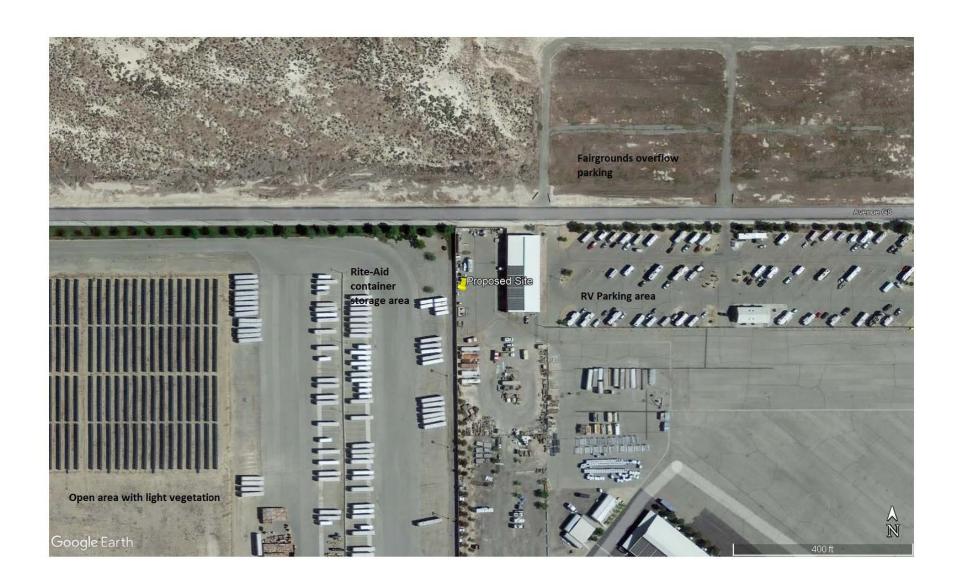
Division Street Site:

- A strip of largely de-vegetated land running north south is located about 65 meters to the west
 of the probe. This strip adjacent to the railroad tracks appears very disturbed soil due to
 unauthorized OHV activity. Close examination of aerial images show a well established pathway
 as well as what may be homeless encampments.
- A vacant parcel with only light vegetation and evidence of unauthorized OHV activity is located about 175 meters southwest of the probe. The OHV activity has de-vegetated and disturbed a significant portion of the northeast part of the parcel.
- A vacant parcel with large vegetation removed (only light vegetation present) is located about 75 meters southeast of the probe.

Fairgrounds Site:

- The closest edge of overflow parking for the Fairgrounds is located about 85 meters northeast of the proposed probe. This overflow parking is only utilized once a year during the week when the fair is in operation. During fair operations and immediately afterwards, fair personnel are actively mitigating the potential for windblown dust by use of water trucks, wood chips, and other soil stabilization techniques. The area has been previously graded, but most of the area (except access roads) maintains light vegetation which stabilize the soil surface.
- The closest edge of an open lightly vegetated area adjacent to a solar panel field is located almost 200 meters to the southwest of the proposed probe. Note the area with installed solar panels is also only lightly vegetated, but the surface roughness of the panels will substantially reduce the wind sheer on the soil surface minimizing windblown dust emissions from those areas.





Evaluating Local Source Impacts and Implications to the Spatial Scale of Monitoring Sites-

All of the vehicular and dust sources identified above will likely have some impact on the measurements from both sites. Impacts from local sources can be evaluated based on wind conditions and estimates of emission activity from each local source as well as the distance from the local source to the measurement location.

Vehicular Emissions:

Localized vehicular emissions can impact measurements to ozone, NOx, and particulates.

Emissions from both site parking lots are seldom upwind from either site location and the occurrence is very sporadic, so the impacts at both sites appear to be insignificant.

Division Street Site:

Emissions from the railroad is directly upwind from the Division Street site during the predominate wind direction, but the occurrence of railroad traffic is only a few times a day, so would seem insignificant. Similarly, the industrial storage area to the south would only have sporadic vehicle emissions and is located outside the predominate wind direction, but winds do at times put the storage area upwind of the probe and those winds typically are calm with less dispersion. The Sierra Highway is located upwind of the predominate wind direction, but is located over 100 meters from the probe.

Fairground Site:

The RV parking lot is not upwind (during typical winds) from the proposed Fairground site location and is over 75 meters away. The sporadic industrial vehicle activity moving containers in the Rite-Aid warehouse storage area is located upwind during the predominate wind direction, but the closest these vehicles will be to the proposed site probe is 27 meters or so. Note that the containers are parked on gravel and are accessed by vehicles from the paved roadway, not the gravel area.

EPA provides regulatory guidance on vehicle emissions expressed in distance to roadway and average daily traffic count (ADVT) in 40 CFR 58 Appendix E. For both sites, there are no local vehicular sources that exceed Tables E-1 and E-2 in Appendix E for neighborhood spatial scale. Is should be noted that based on this analysis it appears the existing Division Street site appears improperly classified as middle scale for Ozone and NO2.

Overall, both sites have similar local vehicular emission sources as each other, suggesting a similar local bias to measurements at both locations.

Dust Emissions:

De-vegetated and disturbed soils have been shown to be more emissive under high wind conditions than naturally vegetated undisturbed soils. Both site locations have areas of de-vegetated and varying levels of disturbed soils.

The closest area of disturbed/de-vegetated land is 65 meters for the Division Street site (upwind for predominate wind direction) and 85 meters for the proposed Fairground site (not upwind in the predominate wind direction). The other potential emission areas are quite a distance from the existing and proposed site.

Unfortunately, EPA does not provide clear regulatory guidance on dust sources, only a statement that "Particulate matter sites **should** not be located in an unpaved area unless there is vegetative ground cover year round, so that the impact of wind blown dusts will be kept to a minimum." The proposed site will be located on a paved surface, with paved or heavily graveled surfaces adjacent to the site location.

The overall evaluation of potential local dust sources is that there are no sources closer than 65 meters for the Division Street site and 85 meters for the proposed Fairground site. The lack of nearby emissive surfaces strongly suggest that local dust source impacts are minimal (and probably similar for both sites) and should not influence the spatial scale of these monitors.

Examination of these local sources strongly suggest that both site locations would have similar spatial scales (neighborhood) for all monitored pollutants.

JUSTIFICATION FOR RELOCATION OF MONITORS:

Some of the monitored parameters qualify for shutdown under 40 CFR 58.14 (c) eliminating the need for parallel monitoring to move the monitoring location. Note that no actual shutdown is being proposed, just using the shutdown criteria as justification for moving the monitoring location.

Nitrogen Dioxide:

As shown in the following tables, the nitrogen dioxide monitor appears to qualify for shutdown under both 40 CFR 58 (c) 1 and 3.

Site	Monitor		Standard	AB456A4	Value		Value				Design		POSE PROCESTANCE	>10% Prob of exceed 80% of NAAQS?
Lancaster	NO2	1 hour	100	80	41	40	41	42	42	Υ	41.2	0.83666	42.09104	N
Lancaster	NO2	Annual	53	42.4	8.26	8.35	8.17	8.66	7.79	Υ	8.246	0.31469	8.581145	N

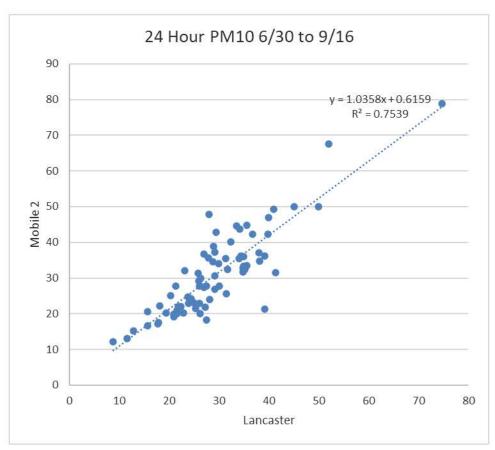
								Exceed NAAQS for 5
Site	Monitor		Max 2021	Max 2020	Max 2019	Max 2018	Max 2017	years?
Lancaster	NO2	1 hour	46.1	51.5	49.8	47 .6	46.5	N
Lancaster	NO2	Annual	8.26	8.35	8.17	8.66	7.79	N

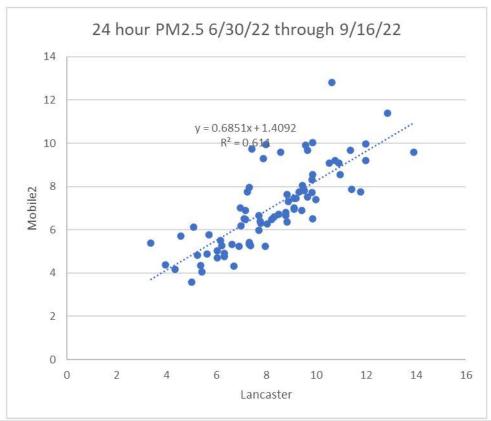
PM10 and PM2.5:

PM2.5 appears to meet the data requirement for shutdown under 40 CFR 58.14 (c) 1 based on the table below.

				80% of	Value	Value	Value	Value	STATISTICS.	Water particular	Design		90%	>10% Prob of exceed 80% of
Site	Monitor		Standard	Standard	2021	2020	2019	2018	2017	years?	Value	Std Dev.	Upper CI	NAAQS?
Lancaster	PM2.5	24 hour	35	28	24	23	15	18	18	Υ	19.6	3.781534	23.62733	N
Lancaster	PM2.5	Annual	12	9.6	7.8	7.5	6.9	7.4	7.5	Υ	7.42	0.327109	7.768371	N

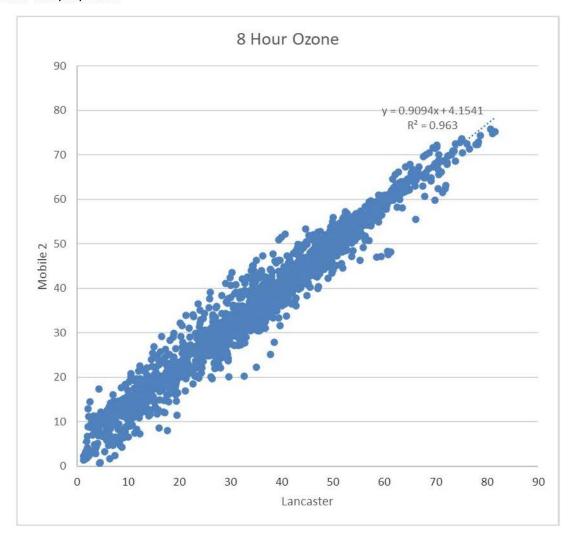
Parallel monitoring for PM parameters was initiated on January 1, 2022 utilizing a Teledyne API T-640X. On 6/30/22 Mojave staff discovered that the T-640X was operating out of specification and performed a significant adjustment to the PMT high voltage (from 1,440 to 1,533 volts). QC data prior to this adjustment was reviewed and no periods were bracketed in time with in-tolerance checks, so unfortunately the data prior to the 6/30 adjustment could not be utilized in the parallel data comparisons. Below is a scattergraph of the 24 hour PM10 and PM2.5 averages from 6/30/22 to 9/16/22 between the two sites. In viewing these plots it is important to consider that the comparison was made with quite different measurement methods, which have been shown to account for some significant differences in collocated measurements. Additionally, particularly for the PM2.5 comparisons, the 24 hour detection limit for both monitors is +/-1 ug/m3. At these low concentrations the method variability (as represented by the detection limit) can account for some of the differences.





Ozone:

Ozone does not qualify for shutdown under 40 CFR 58 (c) 1-5. Therefore, parallel monitoring data was gathered to justify the movement of the ozone monitor. Below is a scattergraph of the 8 hour average ozone concentrations between the two sites, showing generally good agreement between the two locations. The collocation period for ozone measurements was January 1, 2022 through 6/15/2022. The ozone monitor utilized for the parallel monitoring was needed by Mojave staff elsewhere and was removed on 6/15/2022.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 75 Hawthorns Street

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 O₃, PM_{2.5}, PM₁₀, and NO₂ State/Local Air Monitoring Station (SLAMS) monitors at the Lancaster-Division Street (Air Ouality System (AOS) ID: 06-037-9033) site. On November 16, 2022, AVAOMD 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, AVAOMD 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 O₃, PM_{2.5}, PM₁₀, and NO₂ 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 O₃, PM_{2.5}, PM₁₀, and NO₂, 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 O₃, PM_{2.5}, PM₁₀, and NO₂ 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 O₃, PM_{2.5}, and PM₁₀. The O₃ study period occurred between January 1, 2022, and June 15, 2022, and the PM_{2.5} and PM₁₀ study period occurred between January 1, 2022 and September 16, 2022. However, the PM_{2.5} and PM₁₀ 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 NO₂ 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 O₃, PM_{2.5}, PM₁₀, and NO₂ 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



May 23, 2024

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 U.S. Environmental Protection Agency's (EPA) review and approval for the California Air Resources Board (CARB) relocation of the O₃, PM_{2.5}, and PM₁₀ State/Local Air Monitoring Station (SLAMS) monitors from the Mojave CA-58 site (Air Quality System (AQS) Site ID: 06-029-0019) to the Mojave Pat Avenue site (AQS Site ID: 06-029-0020). On April 8, 2024, 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 CA-58 monitoring site due to logistics beyond CARB's control (i.e., land use changes and challenges securing a long-term lease). Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the relocation of SLAMS monitors. EPA notes that Mojave CA-58 was previously relocated from Mojave Poole, and with the relocation approved on April 11, 2023, data from the two sites were combined in AQS and used for this analysis.

The Mojave CA-58 PM $_{10}$ monitor relocation was reviewed under 40 CFR 58.14(b). Generally, relocations may be appropriate for approval if the new site is at a nearby location with the same scale of representation and if the relocation does not compromise data needed for implementation of the National Ambient Air Quality Standards (NAAQS) or if one of the criteria for the PM $_{10}$ monitor discontinuation under 40 CFR 58.14(c)(1) through (c)(5) are satisfied.

EPA reviewed the PM_{10} data against criteria in 40 CFR 58.14(c)(2). As the site stopped collecting data at the end of February 2023, EPA reviewed the most recently available complete calendar years of data. According to certified data from 2018-2022 in AQS, EPA determined that this monitor meets the requirements for discontinuation under 40 CFR 58.14(c)(2). This monitor was not specifically required by an attainment or maintenance plan and had consistently measured lower concentrations than another monitor for the same pollutant in the same county during the previous five years. PM_{10} data available from calendar year 2023 were consistent with the historical trend and continued to show similar concentrations. Lastly, since both monitors remain in the same planning area, any control

measures scheduled to be implemented or discontinued during the next five years would apply to areas around both monitors compared in analysis above.

The Mojave CA-58 O_3 and PM_{2.5} monitors were not eligible for removal under 40 CFR 58.14(c)(1) - (c)(5). These monitor relocations were reviewed under 40 CFR 58.14(c)(6), which describes the relocation requirements if a SLAMS monitor is not eligible for removal under the criteria in 40 CFR 58.14(c)(1) through (c)(5), and states that "[a] SLAMS monitor ... may be moved to a nearby location with the same scale of representation if logistical problems beyond the State's control make it impossible to continue operation at its current site."

The original Mojave CA-58 site is located at 1773 CA-58 Business, Mojave, CA 93501. The relocation site, 3200 Pat Avenue, Mojave 93501, is approximately 2,343 meters northwest 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 CA-58 from March 2021 through February 2023 and at Mojave Pat Avenue from March 2023 through February 2024. The resulting data supported the expectation of similar concentrations from similar sources for all pollutants. CARB also provided seasonal wind roses for the Mojave area 2020 through 2022.

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 CA-58 O₃, PM_{2.5}, and PM₁₀ SLAMS monitors to the proposed site, Mojave Pat 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 there are any questions regarding this letter, 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

Bernave Garcia, 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

Detailed Site Reports – CARB Sites Outside of CARB ANP

Sacramento Metropolitan AQMD *CARB operated sites outside of the CARB ANP

*CARB operated sites outside of the CARB ANP					
Local Site Name			Sacramento-1309 T Street	t	
AQS ID			06-067-0010		
GPS Coordinates		38	3.568440°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 1	1th St.: 3,102 (City of Sacr	amento, 2009)	
Ground Cover			op site (residential area is r		
Representative statistical area name (i.e. MSA, CBSA, other)		Sacram	entoArden-ArcadeRose	ville. 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,	Teflon	Teflon	N/A	N/A	N/A
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	12.8	19.8	N/A	N/A	N/A
Carbonyls (seconds)					
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	8/14/2023	8/14/2023	N/A	N/A	N/A
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM			02/10/23	02/10/23	02/10/23
monitors			08/14/23	08/14/23	08/14/23

San Joaquin Valley APCD *CARB operated sites outside of the CARB ANP

*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, 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)	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,	Teflon							
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	7.0							
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.0							
Carbonyls (seconds)								
Will there be changes within the next 18 months?	Yes							
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							
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	10/18/23							
gaseous parameters								
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A							
monitors								
		· · · · · · · · · · · · · · · · · · ·						

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		401 E. Flanz Ivu., Daketsheid CA 95507						
		500 m (west)						
Distance to roadways (meters)	47.007./2040	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, 1							
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)	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)	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,	N/A							
Carbonyls (e.g. Pyrex, stainless steel, Teflon)								
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A							
Carbonyls (seconds)								
Will there be changes within the next 18 months?	Yes							
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	N/A							
gaseous parameters								
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	03/21/23							
monitors	08/29/23							
Infolitors	08/29/23							

Local Site Name			Bakersfield-California					
AQS ID			06-029-0014					
GPS Coordinates			35.35662, -119.06261					
Street Address		5558 Ca	Ilifornia Ave Bakersfield C	V 03300				
County		5556 Ca	, -	A 93309				
			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, 1	NO2, 1						
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)	>10//C	>10m						
Distance to hearest tree drip line (meters) Distance to furnace or incinerator flue (meters)	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			+			
Probe material for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	Teflon	Teflon			+			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	I GIIOH	I GIIOII						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.0	8.3			+			
Carbonyls (seconds)	7.0	0.3						
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	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	0/20/2022	9/20/2023						
gaseous parameters	8/29/2023	8/29/2023						
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A						
monitors								
<u> </u>		•		•	•			

(Continued)

					(Continued)
Local Site Name			Bakersfield-California		
AQS ID			06-029-0014		
GPS Coordinates			35.35662, -119.06261		
Street Address		5558 Ca	alifornia Ave., Bakersfield C	A 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, 7	PM2.5, 1	PM2.5, 2	PM2.5, 3	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	QA-Collocated	N/A	
Parameter Code	81102	88101	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,	Teflon	N/A	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A	N/A	N/A	
Carbonyls (seconds)					
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	N/A	N/A	N/A	N/A	
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	03/21/23	03/21/23	03/21/23	03/21/23	
monitors	08/29/23	08/29/23	08/29/23	08/29/23	

Local Cita Nama			Edison		1			
Local Site Name								
AQS ID			06-029-0007					
GPS Coordinates			35.3456 N, -118.8518 W					
Street Address		Johr	nson Farm-Shed Rd, Edisor	n 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,	NAAQS, Research,						
	Public Info.	Public Info.						
Site type(s)	Highest Concentration,	Population Exposure						
	Regional Transport							
Monitor type(s)	SLAMS	SLAMS						
Network affiliation(s)	N/A	N/A						
Instrument manufacturer and model	Teledyne API 400	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	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,	Teflon	Teflon						
Carbonyls (e.g. Pyrex, stainless steel, Teflon)								
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.4	9.4						
Carbonyls (seconds)								
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	8/7/23	12/5/23						
gaseous parameters								
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A						
monitors								
-	<u> </u>	ļ						

7,520/2011 (First Stre Ozone, 1 Primary	-	Paved									
Ozone, 1	-	36.7853 N, -119.7732 W First St., Ste.104, Fresno C Fresno 30 m (south) surce: Fresno COG Fresno Paved									
Ozone, 1	-	First St., Ste.104, Fresno C Fresno 30 m (south) ource: Fresno COG Fresno Paved									
Ozone, 1	-	Fresno 30 m (south) surce: Fresno COG Fresno Paved									
Ozone, 1	et near Dakota Avenue. So	30 m (south) ource: Fresno COG Fresno Paved	County Regional Traffic Mo								
Ozone, 1	et near Dakota Avenue. So	ource: Fresno COG Fresno Paved	County Regional Traffic Mo								
Ozone, 1	et near Dakota Avenue. So	Paved	County Regional Traffic Mo	7,520/2011 (First Street near Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013)							
		Fresno									
Primary	NO2,3	CO, 3	SO2, 3								
	Primary	Primary	Primary								
		Ncore									
,		,									
				·							
ARB	ARB	ARB	ARB	·							
	,	- 41 -									
Urban	Urban	Urban	Urban								
12/23/2011	2/1/2012	1/18/2012	1/18/2012								
Continuous	Continuous	Continuous	Continuous								
N/A	N/A	N/A	N/A								
1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec	1-Jan-31-Dec								
6.8	6.8	6.6	6.6								
2.8	2.8	2.8	2.8								
No Obstructions	No Obstructions	No Obstructions	No Obstructions								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
360	360	360	360								
Teflon	Teflon	Teflon	Teflon	<u> </u>							
17.2	17.6	13.7	15.2								
No	No	No	No								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
N/A	N/A	N/A	N/A								
1/31/2023	1/31/2023	4/4/2023	4/4/2023								
N/A	N/A	N/A	N/A								
	44201 NAAQS Population Exposure SLAMS NCore Teledyne API T400 87 FEM ARB N/A ARB Urban 12/23/2011 Continuous N/A 1-Jan-31-Dec 6.8 2.8 No Obstructions N/A	44201 42602 NAAQS NAAQS Population Exposure Population Exposure SLAMS SLAMS NCore Ncore Teledyne API T400 Thermo 42IQTL 87 74 FEM FRM ARB ARB N/A N/A ARB ARB Urban Urban 12/23/2011 2/1/2012 Continuous Continuous N/A N/A 1-Jan-31-Dec 1-Jan-31-Dec 6.8 6.8 2.8 2.8 No Obstructions No Obstructions N/A N/A N/A N/A	44201 42602 42101 NAAQS NAAQS NAAQS Population Exposure Population Exposure Population Exposure SLAMS SLAMS SLAMS NCore Ncore Ncore Teledyne API T400 Thermo 42IQTL Teledyne API T300 87 74 593 FEM FRM FRM ARB ARB ARB N/A N/A N/A N/A N/A N/A Urban Urban Urban 12/23/2011 2/1/2012 1/18/2012 Continuous Continuous Continuous N/A N/A N/A N/A N/A N/A 1-Jan-31-Dec 1-Jan-31-Dec 1-Jan-31-Dec 6.8 6.8 6.8 6.6 2.8 2.8 2.8 No Obstructions No Obstructions No Obstructions N/A N/A N/A N/A N/A N/A								

Local Cita Nama	<u></u>		France Contact		(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 C	CA 93726	
County			Fresno		
Distance to roadways (meters)			30 m (south)		
Traffic Count (AADT,year)	7,520/2011 (First Stre	eet near Dakota Avenue. So	ource: Fresno COG Fresno	County Regional Traffic M	onitoring Report 2013)
Ground Cover			Paved		
Representative statistical area name (i.e. MSA, CBSA, other)			Fresno		
Pollutant, POC	PM10, 3	PM2.5, 2	PM2.5, 3	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	QA Collocated	
Parameter Code	81102	88101	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)	NCore	Ncore	Ncore	Ncore	
Instrument manufacturer and model	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020	Thermo 2025i	
Method code	122	170	185	145	
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,	N/A	N/A	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	N/A	N/A	N/A	N/A	
Carbonyls (seconds)					
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	N/A	N/A	N/A	N/A	
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	01/31/23	01/31/23	01/31/23		
		08/08/23	08/08/23	i e	i l

Local Site Name	Modesto –14th St				
AQS ID	06-099-0005				
GPS Coordinates	37.6421 N120.9942 W				
Street Address	37.6421 N, -120.9942 W 814 14th Street, Modesto CA 95354				
		814	,	5354	
County			Stanislaus		
Distance to roadways (meters)			1,010 m (southwest)		
Traffic Count (AADT,year)		132,00	00 (Caltrans Traffic AADT,	2022)	
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	Primary	Primary	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,	Teflon	Teflon	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.3	6.4	N/A	N/A	
Carbonyls (seconds)	-	-	•		
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	12/1/2023	12/1/2023	N/A	N/A	
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A	05/17/23	05/17/23	
monitors			12/01/23	12/01/23	

Local Site Name	Oildale				
AQS ID			06-029-0232		
GPS Coordinates	35.4380 N, -119.0167 W				
Street Address		221	1 Manor St. Oildale CA 93	200	
		331	,	300	
County			Kern		
Distance to roadways (meters)	0.000/0	040 (14 0)	150 m (northwest)		
Traffic Count (AADT,year)	6,683/2	018 (Manor St. between Da	-	ce: Kern Council of Gove	rnments.)
Ground Cover			Dirt, vegetative		
Representative statistical area name (i.e. MSA, CBSA, other)			Bakersfield		
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)	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,	Teflon	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	8.0	N/A			
Carbonyls (seconds)					
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			
	·	ŕ			
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	8/31/23	N/A			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	03/22/23			
monitors		08/31/23			

Local Site Name	Shafter				
AQS ID	06-029-6001				
GPS Coordinates	35.5034 N, -119.2726 W				
Street Address		E70	Walker St., Shafter, CA 932	160	
		5/8	, , ,	103	
County			Kern		
Distance to roadways (meters)			10m (southwest)		
Traffic Count (AADT,year)		4,002/2018 (Central Ave ar	nd Walker St., Source: Kern	Council of Governmen	ts.)
Ground Cover			Paved		
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	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)	7.2	7.2			
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)	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,	Teflon	Teflon			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	16.3	18.1			
Carbonyls (seconds)					
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	12/6/2023	12/6/2023			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A			
monitors					
		•	•		•

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)	3600/20	20 (Traffic count estimated	•	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	Primary	Primary	Primary	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	Thermo 42iQ	Met One BAM-1020	Met One BAM-1020	
Method code	87	593	74	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,	Teflon	Teflon	Teflon	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)						
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	10.6	10.2	15.5	N/A	N/A	
Carbonyls (seconds)			,		,	
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	2/23/2023	2/23/2023	2/23/2023	N/A	N/A	
gaseous parameters						
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A	N/A	02/23/23	02/23/23	
monitors				09/06/23	09/06/23	

Local Site Name	Visalia – West Ashland Avenue				
AQS ID	06-107-2003				
GPS Coordinates	36.308150N, -119.312900W				
Street Address	30.308150N, -119.312900W 2005 W. Ashland Ave., suite G, Visalia CA 93277				
		2005 W. AS	<u> </u>	a 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, 1	NO2, 1	PM10	PM2.5	
Primary, QA-Audit, Supplementary, or N/A	Primary	Primary	Primary	Primary	
Parameter Code	44201	42602	81102	88101	
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	170	
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)	25	25	20	20	
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,	Teflon	Teflon	N/A	N/A	
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	7.8	14.7	N/A	NA	
Carbonyls (seconds)					
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	10/31/23	12/12/23	N/A N/A	N/A	
gaseous parameters	10/31/23	12/12/23	IN/A	IN/A	
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	N/A	05/16/23	05/16/23	
monitors	1 1// 1	14//1	12/12/23	12/12/23	
monitoro		ļ.	12/12/23	12/12/23	<u> </u>

San Luis Obispo APCD *CARB operated sites outside of the CARB ANP

*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)		Sa	an 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,	Teflon	N/A			
Carbonyls (e.g. Pyrex, stainless steel, Teflon)					
Residence time for reactive gases NO/NO2/NOy, SO2, O3; PAMS: VOCs,	14.1	N/A			
Carbonyls (seconds)					
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	4/11/23	N/A			
gaseous parameters					
Date of two semi-annual flow rate audits conducted in the past calendar year for PM	N/A	04/11/23			
monitors		11/02/23			

Appendix E

Summary of Public Comments and CARB Responses

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