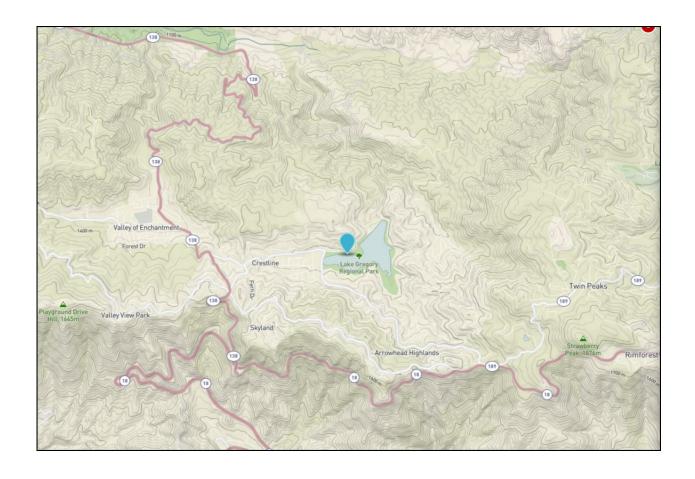
South Coast AQMD Site Survey Report for Central San Bernardino Mountains Last updated: May 7, 2024



| AQS ID | ARB Number | Site Start Date | Reporting Agency and Agency Code |
|-----------|------------|-----------------|----------------------------------|
| 060710005 | 36181 | 10/1973 | South Coast AQMD (0972) |

| Site Address | County | Air Basin | Latitude | Longitude | Elevation |
|---|----------------|-------------|-----------|-------------|-----------|
| 24171 Lake Drive Crestline, CA 92325 | San Bernardino | South Coast | 34.243100 | -117.272350 | 1387 |



Detailed Site Information

| Local site name | | Central San Bernardino Mountains | | | | |
|-----------------------------------|--|--|------------------------|---------------------|--|--|
| AQS ID | | 0607100 | | | | |
| GPS coordinates (decimal degrees) | | Latitude: 34.243100, Longitude: -117.272350 | | | | |
| Street Address | | 24171 Lake Drive, Crestline, CA 92325 | | | | |
| County | | San Berr | | | | |
| Distance to roadways | (meters) | 55 | | | | |
| Traffic count (AADT, | \ | 5114 / 20 | 022 | | | |
| Groundcover | • | Grass/W | eeds | | | |
| (e.g. asphalt, dirt, sand | | | | | | |
| Representative statistic | | 40140-Riverside-San Bernardino-Ontario, CA MSA | | | | |
| (i.e. MSA, CBSA, othe | er) | · | | | | |
| Pollutant, POC | Ozone, 1 | | PM10, 1 Continuous PM2 | | | |
| Primary / QA | N/A | | Primary | Other | | |
| Collocated / Other | | | | | | |
| Parameter code | 44201 | | 81102 | 88502 | | |
| Basic monitoring | NAAQS | | NAAQS | General Public Info | | |
| objective(s) | | | | | | |
| Site type(s) | Highest | | Population Exposure | Population Exposure | | |
| | Concentrati | on | GY 43.6G | 0.1 | | |
| Monitor (type) | SLAMS | | SLAMS | Other | | |
| Network Affiliation | N/A | | N/A | N/A | | |
| Instrument | Teledyne Teledyn Te | 400 | Tisch SSI TE- | Met One BAM 1022 | | |
| manufacturer and | | | PM10PLUS-BL | | | |
| model | 007 | | 1.41 | 171 | | |
| Method code | 087 | | 141 FRM | 171 Non-FEM | | |
| FRM/FEM/ARM/ | FEM | | FKM | Non-FEM | | |
| other Collecting Agency | South Coas | t AOMD | South Coast AQMD | South Coast AQMD | | |
| Analytical Lab (i.e., | N/A | | South Coast AQMD | N/A | | |
| weigh lab, toxics lab, | IN/A | | South Coast AQMD | IN/A | | |
| other) | | | | | | |
| Reporting Agency | South Coast AQMD | | South Coast AQMD | South Coast AQMD | | |
| Spatial scale (e.g. | Neighborhood | | Neighborhood | Neighborhood | | |
| micro, neighborhood) | i veignoomo | o u | 1 (orgino ornico d | T (engine of moota | | |
| Monitoring start date | 10/01/1973 | | 01/1985 | 07/24/2009 | | |
| (MM/DD/YYYY) | | | | | | |
| Current sampling | Continuous | | 1:6 | Continuous | | |
| frequency (e.g.1:3, | | | | | | |
| continuous) | | | | _ | | |
| Calculated sampling | N/A | | 1:6 | N/A | | |
| frequency | | | | | | |
| (e.g. 1:3/1:1) | | | | | | |
| Sampling season | 01/01-12/31 | | 01/01-12/31 | 01/01-12/31 | | |
| (MM/DD-MM/DD) | | | | | | |
| Probe height (meters) | | | 2.5 | 3.2 | | |
| Distance from | N/A | | N/A | N/A | | |
| supporting structure | | | | | | |
| (meters) | N T/ A | | 37/4 | NT/ A | | |
| Distance from | N/A | | N/A | N/A | | |
| obstructions on roof | | | | | | |
| (meters) | | | | | | |

| Distance from | N/A | N/A | N/A | |
|----------------------------------|-------------|-------------|-------------|---|
| obstructions not on | | | | |
| roof (meters) | | | | |
| Distance from trees | 10 | 10 | 10 | |
| (meters) | Hight ∼15 M | Hight ∼15 M | Hight ∼15 M | |
| Distance to furnace or | N/A | N/A | N/A | |
| incinerator flue | | | | |
| (meters) Distance between | N/A | N/A | N/A | |
| collocated monitors | N/A | N/A | N/A | |
| (meters) | | | | |
| Unrestricted airflow | 225° | 225° | 225° | |
| (degrees) | 223 | | | |
| Probe material for | Teflon | N/A | N/A | |
| reactive gases | | | | |
| (e.g. Pyrex, stainless | | | | |
| steel, Teflon) | | | | |
| Residence time for | 17.0 | N/A | N/A | |
| reactive gases | | | | |
| (seconds) | N. | N | N | |
| Will there be changes | No | No | No | |
| within the next 18 months? (Y/N) | | | | |
| Is it suitable for | N/A | N/A | N/A | |
| comparison against | IV/A | IV/A | IV/A | |
| the annual PM2.5? | | | | |
| (Y/N) | | | | |
| Frequency of flow | N/A | Monthly | N/A | |
| rate verification for | | - | | |
| manual PM samplers | | | | |
| Frequency of flow | N/A | N/A | Monthly | |
| rate verification for | | | | |
| automated PM | | | | |
| analyzers Frequency of one- | Nightly | N/A | N/A | |
| point QC check for | TAIRIITIA | 1W/ A | 1W/A | |
| ga seous instruments | | | | |
| Last Annual | 05/26/2023 | N/A | N/A | |
| Performance | | | | |
| Evaluation for | | | | |
| gaseous parameters | | | | |
| (MM/DD/YYYY) | | | | |
| Last two semi-annual | N/A | 04/11/2023 | 04/11/2023 | |
| flow rate audits for | | 09/13/2023 | 09/13/2023 | |
| PM monitors | | | | |
| (MM/DD/YYYY, MM/DD/YYYY) | | | | |
| IVIIVI/UU/IIII) | | | | l |

| Pollutant, POC | WS & D, 1/1 | RH/T, 1/1 | I | |
|------------------------|--------------------|------------------|---|--|
| Primary / QA | N/A | N/A | | |
| Collocated / Other | | | | |
| Parameter code | 61101/61102 | 62201/62101 | | |
| Basic monitoring | Research | Research | | |
| objective(s) | | | | |
| Site type(s) | Meteorological | Meteorological | | |
| Monitor (type) | SLAMS | SLAMS | | |
| Network Affiliation | N/A | N/A | | |
| Instrument | RM Young 05305V | Rotronic HC2-S3 | | |
| manufacturer and | Kivi Toung 05505 v | Kononic 11C2-33 | | |
| model | | | | |
| Method code | 065/065 | 063/063 | | |
| FRM/FEM/ARM/ | N/A | N/A | | |
| other | 11/17 | 11/17 | | |
| Collecting Agency | South Coast AQMD | South Coast AQMD | | |
| Analytical Lab (i.e., | N/A | N/A | | |
| weigh lab, toxics lab, | 1 V/ F1 | 1 N/ FA | | |
| other) | | | | |
| Reporting Agency | South Coast AQMD | South Coast AQMD | | |
| Spatial scale (e.g. | Neighborhood | Neighborhood | | |
| micro, neighborhood) | Treightourhood | reignoomood | | |
| Monitoring start date | 10/1973 | 10/1973 | | |
| (MM/DD/YYYY) | 10/17/3 | 10/17/3 | | |
| Current sampling | Continuous | Continuous | | |
| frequency (e.g.1:3, | Continuous | Continuous | | |
| continuous) | | | | |
| Calculated sampling | N/A | N/A | | |
| frequency | | | | |
| (e.g. 1:3/1:1) | | | | |
| Sampling season | 01/01-12/31 | 01/01-12/31 | | |
| (MM/DD-MM/DD) | | | | |
| Probe height (meters) | 10.0 | 9.0 | | |
| Distance from | N/A | N/A | | |
| supporting structure | | | | |
| (meters) | | | | |
| Distance from | N/A | N/A | | |
| obstructions on roof | | | | |
| (meters) | | | | |
| Distance from | N/A | N/A | | |
| obstructions not on | | | | |
| roof (meters) | | | | |
| Distance from trees | 15 | 10 | | |
| (meters) | Hight ∼15 M | Hight ∼15 M | | |
| Distance to furnace or | N/A | N/A | | |
| incinerator flue | | | | |
| (meters) | | | | |
| Distance between | N/A | N/A | | |
| collocated monitors | | | | |
| (meters) | 22.50 | 2250 | | |
| Unrestricted airflow | 225° | 225° | | |
| (degrees) | | | | |

| Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison a gainst the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for anutomated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual PM-comparaments Last Annual N/A N/A N/A N/A N/A Performance Evaluation for gaseous instruments Last Annual N/A N/A N/A N/A N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY) MM/DD/YYYY, | | | | | | 4 |
|--|------------------------|-------|----------|---------|--|---|
| (e.g. Pyrex, stainless steel, Teflon) Residence time for reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison a gainst the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual PM2.5? (N/A) N/A N/A N/A N/A N/A N/A N/A | Probe material for | N/A | N/A | | <u>'</u> | |
| steel, Teflon) Residence time for reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A N/A N/A N/A N/A N/A N/A | | 1 | | | | |
| steel, Teflon) Residence time for reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY), | (e.g. Pyrex, stainless | 1 | | | | |
| Residence time for reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for N/A Comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| reactive gases (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for annual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | N/A | N/A | | 1 | |
| (seconds) Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for annual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| Will there be changes within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| within the next 18 months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | No | No | | - | |
| months? (Y/N) Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual PMC Compared PMC Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PMC Monitors (MM/DD/YYYY, MMC) MAC N/A N/A N/A N/A N/A N/A N/A N/A | within the next 18 | 110 | 110 | | | |
| Is it suitable for comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| comparison against the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | N/A | N/A | + | | 1 |
| the annual PM2.5? (Y/N) Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 11/11 | 14/11 | | | |
| Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | the annual PM2 59 | 1 | | | | |
| Frequency of flow rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | - | 1 | | | | |
| rate verification for manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | NT/A | NT/A | + | | 1 |
| manual PM samplers Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | IV/A | IN/A | | | |
| Frequency of flow rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| rate verification for automated PM analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | | Tat/a | <u></u> | <u> </u> | 4 |
| automated PM analyzers Frequency of one- point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | N/A | N/A | | | |
| analyzers Frequency of one-point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| Frequency of one- point QC check for gaseous instruments Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| point QC check for gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 77/4 | 27/ | | <u> </u> | 4 |
| gaseous instruments Last Annual N/A N/A Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | N/A | N/A | | | 1 |
| Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | |
| Performance Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | <u> </u> | | | 1 |
| Evaluation for gaseous parameters (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, | | N/A | N/A | | | |
| gaseous parameters (MM/DD/YYYY) Last two semi-annual N/A N/A flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | 1 |
| (MM/DD/YYYY) Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, N/A | | 1 | | | | 1 |
| Last two semi-annual N/A N/A flow rate audits for PM monitors (MM/DD/YYYY, | | 1 | | | | 1 |
| flow rate audits for PM monitors (MM/DD/YYYY, | | | | | | |
| flow rate audits for PM monitors (MM/DD/YYYY, | Last two semi-annual | N/A | N/A | | | 1 |
| (MM/DD/YYYY, | flow rate audits for | 1 | | | | 1 |
| | PM monitors | 1 | | | | 1 |
| | (MM/DD/YYYY, | 1 | | | | 1 |
| | | 1 | | | | 1 |

Central San Bernardino Mountains Site Photos



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

Central San Bernardino Mountains Site Photos (Cont.)



Looking at the probe from the North.



Looking at the probe from the East.



Looking at the probe from the South



Looking at the probe from the West.