

NORTHERN NEVADA

# Public Health

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## Air Quality

### 2024 Ambient Air Monitoring Network Plan

June 28, 2024



## **MISSION**

**To improve and protect our community's quality of life and increase equitable opportunities for better health.**

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## Acronyms and Abbreviations

AADT	Annual Average Daily Traffic Count
AQMD	Northern Nevada Public Health – Air Quality Management Division
AQS	Air Quality System
ARM	Approved Regional Method
ATR	Automatic Traffic Recorder
BAM	Beta Attenuation Monitor
CARB	California Air Resources Board
CBSA	Core-Based Statistical Area
cc/min	Cubic centimeter per minute
CFR	Code of Federal Regulations
CO	Carbon Monoxide
EPA	U.S. Environmental Protection Agency
ESC	Environmental Systems Corporation
FEM	Federal Equivalent Method
FRM	Federal Reference Method
GFC	Gas Filter Correlation
MSA	Metropolitan Statistical Area
NAAQS	National Ambient Air Quality Standards
NCore	National Core multipollutant monitoring station
NDOT	Nevada Department of Transportation
NEI	National Emissions Inventory
NNPH	Northern Nevada Public Health
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Oxides of Nitrogen
NO <sub>y</sub>	Reactive Oxides of Nitrogen
O <sub>3</sub>	Ozone
ORD	EPA’s Office of Research and Development
PLPT	Pyramid Lake Paiute Tribe
PM <sub>2.5</sub>	Particulate Matter less than or equal to 2.5 microns in aerodynamic diameter
PM <sub>10</sub>	Particulate Matter less than or equal to 10 microns in aerodynamic diameter
PM <sub>coarse</sub>	PM <sub>10</sub> minus PM <sub>2.5</sub>
ppb	parts per billion
ppm	parts per million
PWEI	Population Weighted Emissions Index
RSIC	Reno-Sparks Indian Colony
SASS	Speciation Air Sampling System
SIP	State Implementation Plan
SLAMS	State and Local Air Monitoring Station
SO <sub>2</sub>	Sulfur Dioxide
SPM	Special Purpose Monitoring
SR	State Route
STN	Speciation Trends Network
TAPI	Teledyne Advanced Pollution Instrumentation, Inc.
WAMMS	Wadsworth Air and Meteorological Monitoring Site

## Introduction

### Purpose

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The U.S. Environmental Protection Agency (EPA) finalized amendments to the ambient air monitoring regulations on October 17, 2006.<sup>1</sup> The amendments revise the technical requirements for certain types of ambient air monitoring sites, add provisions for monitoring of PM<sub>coarse</sub>, and reduce certain monitoring requirements for criteria pollutants. Monitoring agencies are required to submit annual monitoring network plans, conduct network assessments every five years, perform quality assurance activities, and in certain instances, have NCore sites established by January 1, 2011.

This plan was prepared and submitted as part of the fulfillment of these regulations. It represents the Northern Nevada Public Health - Air Quality Management Division's (AQMD) ambient air monitoring program activities completed in 2023 and proposed network modifications for 2024-2025.

### Public Inspection Process

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This monitoring network plan was available for public inspection from May 25 to June 25, 2024, at the AQMD website ([OurCleanAir.com](https://www.ourcleanair.com)). A hardcopy of the plan was also available at the AQMD office. See Appendix A for AQMD's Public Inspection Plan.

### Agency Contacts

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For information or questions regarding the 2024 Ambient Air Monitoring Network Plan, please contact the following individuals of the AQMD.

Francisco Vega, Division Director  
(775) 784-7211, or [fvega@nnph.org](mailto:fvega@nnph.org)

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Daniel Timmons, Senior Air Quality Specialist  
(775) 784-7205, or [drtimmons@nnph.org](mailto:drtimmons@nnph.org)

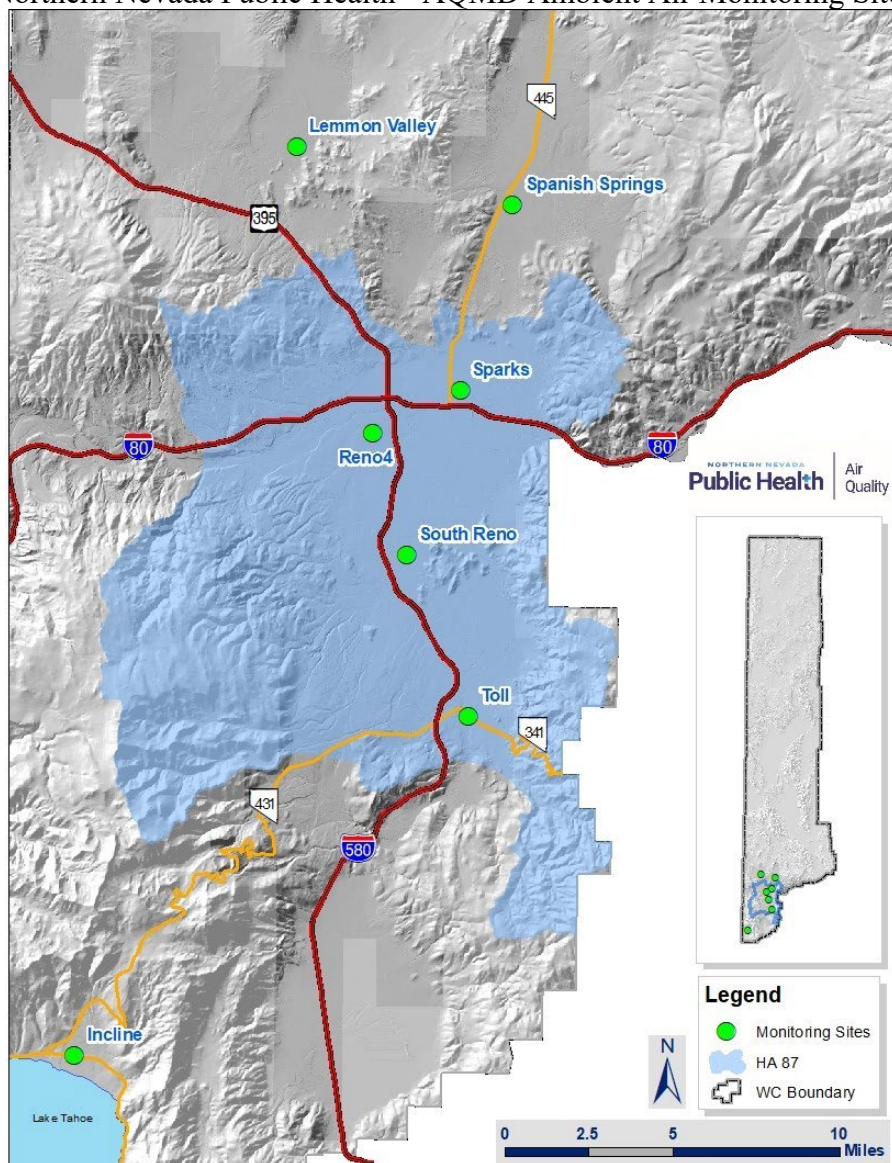
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<sup>1</sup> 71 FR 61236-61328.

### Network Design

The AQMD operated seven (7) ambient air monitoring sites in 2023 (Figure 1). The blue boundary delineates Hydrographic Area 87 (HA 87) as defined by the State of Nevada Division of Water Resources. This area was designated as “serious” non-attainment for the 24-hour PM<sub>10</sub> NAAQS until it was redesignated to “Attainment/Maintenance” effective January 7, 2016.<sup>2</sup> Washoe County is classified as “attainment” or “unclassifiable/attainment” for all other pollutants and averaging times. Table 1 lists the parameters monitored in 2023 sorted by network type and site.

Figure 1  
Northern Nevada Public Health - AQMD Ambient Air Monitoring Sites



<sup>2</sup> 80 FR 76232 (December 8, 2015).

Table 1  
Ambient Air Monitoring Sites and Parameters Monitored

Network Type Site	O <sub>3</sub>	CO	Trace CO	NO	NO <sub>2</sub>	NO <sub>x</sub>	Trace NO	NOy-NO	NOy	Trace SO <sub>2</sub>	PM <sub>10</sub> (manual)	PM <sub>10</sub> (continuous)	PM <sub>2.5</sub> (manual)	PM <sub>2.5</sub> (continuous)	PM <sub>coarse</sub> (manual)	PM <sub>coarse</sub> (continuous)	PM <sub>2.5</sub> Speciation	Meteorology
Incline	✓																	
Lemmon Valley	✓																	
South Reno	✓																	✓
Spanish Springs	✓											✓		✓		✓		✓
Sparks	✓											✓		✓		✓		✓
Toll	✓											✓		✓		✓		✓
NCore <sup>3</sup>																		
Reno4	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
STN																		
Reno4																	✓	
SPM																		

Notes: Meteorology for the NCore network includes ambient temperature, wind speed, wind direction, and relative humidity. The PM<sub>10</sub> manual method monitor at NCore is for PM<sub>coarse</sub> calculation only and is not submitted to AQS for data to be used in comparison to the NAAQS.

<sup>3</sup> NCore monitoring began December 2010.



## Minimum Monitoring Requirements

Except where otherwise noted, each monitor in AQMD's ambient air monitoring network meets the minimum monitoring requirements for all criteria pollutants pursuant to 40 CFR 58, Appendices A, B, C, D, and E, where applicable. Tables 2 through 10 provide pollutant specific monitoring requirements. Additional pollutant specific data may be found in the "[Washoe County, Nevada, Air Quality Trends Report, 2013-2022](#)". The 2023 population data are from the Nevada State Demographer's Office.<sup>4</sup>

Table 2  
Minimum Monitoring Requirements for O<sub>3</sub>

MSA	County	Population	8-hour Design Value (2021-2023)		Number of Sites		
			ppm	Site (ID)	Minimum Required	Active	Needed
Reno-Sparks	Washoe <u>Storey</u> Total	508,759 <u>4,454</u> 513,213	0.069	South Reno (0020) Sparks (1005) Spanish Springs (1007) Incline (2002)	2	7	0

Monitors required for SIP or Maintenance Plan: 2

Title 40 CFR 58, Appendix D, Section 4.1 requires O<sub>3</sub> monitoring in MSAs with populations above 350,000 people. Monitors are also required in MSAs with lower populations if measured O<sub>3</sub> values within that MSA are 85% or more of the NAAQS.

Table 3  
Minimum Monitoring Requirements for PM<sub>2.5</sub> SLAMS (FRM/FEM/ARM)

MSA	County	Population	Design Value (2021-2023)				Number of SLAMS Sites		
			Annual (µg/m <sup>3</sup> )	Annual Site (ID)	Daily (µg/m <sup>3</sup> )	Daily Site (ID)	Minimum Required	Active	Needed
Reno-Sparks	Washoe <u>Storey</u> Total	508,759 <u>4,454</u> 513,213	9.7	Sparks (1005)	59	Reno4 (0031)	2	4	0

Monitors required for: SIP or Maintenance Plan: 0; NCore: 1

Title 40 CFR 58, Appendix D, Section 4.7.1 requires PM<sub>2.5</sub> monitoring in MSAs with populations above 500,000 people and in MSAs with lower populations if measured PM<sub>2.5</sub> values for an MSA are 85% or more of the NAAQS.

<sup>4</sup> Nevada State Demographer, "Governor Certified Population Estimates of Nevada's Counties, Cities and Towns 2002 to 2023"

**Table 4**  
**Minimum Monitoring Requirements for Continuous PM<sub>2.5</sub> Monitors (FEM/ARM/non-FEM)**

MSA	County	Population	Design Value (2021-2023)				Number of Continuous Monitors		
			Annual ( $\mu\text{g}/\text{m}^3$ )	Annual Site (ID)	Daily ( $\mu\text{g}/\text{m}^3$ )	Daily Site (ID)	Minimum Required	Active	Needed
Reno- Sparks	Washoe <u>Storey</u> Total	508,759 <u>4,454</u> 513,213	9.7	Sparks (1005)	59	Reno4 (0031)	1	4	0

Monitors required for: SIP or Maintenance Plan: 0; NCore: 1

Title 40 CFR 58, Appendix D, Section 4.7.2 requires continuous PM<sub>2.5</sub> monitors equal to at least one-half (round up) of the minimum sites listed in Table D-5 of Title 40 CFR 58, Appendix D.

**Table 5**  
**Minimum Monitoring Requirements for PM<sub>10</sub>**

MSA	County	Population	Maximum Concentration (2021-2023)		Number of Sites		
			$\mu\text{g}/\text{m}^3$	Site (ID)	Minimum Required	Active	Needed
Reno- Sparks	Washoe <u>Storey</u> Total	508,759 <u>4,454</u> 513,213	319	Toll (0025)	4-8	4	0

Monitors required for SIP or Maintenance Plan: 4

Title 40 CFR 58, Appendix D, Section 4.6 specifies PM<sub>10</sub> monitoring requirements in MSAs based on population and design values. The number of PM<sub>10</sub> stations in areas where MSA populations are from 500,000-1,000,000 must be in the range of 4 to 8 stations, depending on ambient concentration levels.

**Table 6**  
**Minimum Monitoring Requirements for NO<sub>2</sub>**

CBSA	County	Population	Max AADT counts (year)	Number of Monitors					
				Required Near-Road	Active Near- Road	Near- Road Needed	Required Area-Wide	Active Area- Wide	Area- Wide Needed
Reno, NV	Washoe <u>Storey</u> Total	508,759 <u>4,454</u> 513,213	169,000 <sup>5</sup> (2022)	0	0	0	0	1	0

Monitors required for: SIP or Maintenance Plan: 0; NCore: 1

Monitors required for PAMS: 0

EPA Regional Administrator-required monitors per 40 CFR 58, App. D 4.3.4: 0

Title 40 CFR 58, Appendix D, Section 4.3.2 requires one near-road NO<sub>2</sub> monitoring station in each CBSA with populations over 1,000,000 people. Likewise, Title 40 CFR 58, Appendix D, Section 4.3.3 requires one area-wide NO<sub>2</sub> monitoring station in each CBSA with populations over 1,000,000 people. Based on the 2023 population data from the Nevada State Demographer's Office, the Reno, NV CBSA does not require a near-road or area-wide NO<sub>2</sub> monitoring station.

<sup>5</sup> NDOT ATR 0310634 between the Plumb-Villanova Interchange 'Exit 65' & Mill St Interchange 'Exit 66'.

Table 7  
Minimum Monitoring Requirements for SO<sub>2</sub>

CBSA	County	Population	Total SO <sub>2</sub> (tons/year)	PWEI (Million persons- tons/year)	Data Requirements Rule Source(s) using Monitoring	Number of Monitors		
						Minimum Required	Active	Needed
Reno, NV	Washoe <u>Storey</u> Total	508,759 4,454 513,213	339.0 <sup>6</sup>	173.9	n/a	0	1	0

Monitors required for SIP or Maintenance Plan: 0; NCore: 1

EPA Regional Administrator-required monitors per 40 CFR 58, App. D 4.4.3: 0

Title 40 CFR 58, Appendix D, Section 4.4.2 requires an SO<sub>2</sub> monitoring network based on a calculated population weighted emissions index (PWEI). This index is calculated by multiplying the population of a CBSA with the National Emission Inventory (NEI) data for counties within that CBSA. The calculated value is then divided by one million in order to obtain the PWEI value. PWEI monitoring requirements are as follows: 1) one monitor in CBSAs with a PWEI value greater than 5,000, 2) two monitors in CBSAs with a PWEI value greater than 100,000, and 3) three monitors in CBSAs with a PWEI value greater than 1,000,000. As shown in Table 8, AQMD used 2023 population data from the Nevada State Demographer's Office and 2020 National Emissions Inventory data to determine that no additional SO<sub>2</sub> monitoring is required.

Table 8  
Minimum Monitoring Requirements for CO

CBSA	County	Population	Number of Monitors		
			Required Near-Road	Active Near-Road	Needed
Reno, NV	Washoe <u>Storey</u> Total	508,759 4,454 513,213	0	0	0

Monitors required for: SIP or Maintenance Plan: 0; NCore: 1

EPA Regional Administrator-required monitors per 40 CFR 58, App. D 4.2.2: 0

Title 40 CFR 58, Appendix D, Section 3.0 requires high sensitivity CO monitors at NCore sites. Title 40 CFR 58, Appendix D, Section 4.2 requires one CO monitor to operate collocated with one required near-road NO<sub>2</sub> monitor in CBSAs having populations over 1,000,000 people. Based on the 2023 population data from the Nevada State Demographer's Office, the Reno, NV CBSA does not require a CO monitor collocated with a near-road NO<sub>2</sub> monitor.

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<sup>6</sup> U.S.EPA, 2020 National Emissions Inventory (NEI) Data

Table 9  
Source-Oriented Pb Monitoring

Source Name	Address	Pb Emissions (tons/year)	Emission Inventory Source & Data Year	Max 3-Month Design Value ( $\mu\text{g}/\text{m}^3$ )	Design Value Date (3 <sup>rd</sup> Month, Year)	Number of Monitors		
						Minimum Required	Active	Needed
Reno-Stead Airport	4895 Texas Ave Reno, NV	0.126	2020 NEI	n/a	n/a	0	0	0
Reno-Tahoe International Airport	2001 E Plumb Lane Reno, NV	0.123	2020 NEI	n/a	n/a	0	0	0

Monitors required for: SIP or Maintenance Plan: 0

EPA Regional Administrator-required monitors per 40 CFR 58, App. D 4.5(c): 0

Title 40 CFR 58, Appendix D, Section 4.5(a) requires one source-oriented SLAMS site located to measure the maximum Pb concentration in ambient air resulting from each non-airport Pb source which emits 0.50 or more tons per year and from each airport which emits 1.0 or more tons per year based on the most recent National Emission Inventory. All non-airport sources of Pb within the CBSA emit less than 0.5 tons per year and all airport sources within the CBSA emit less than 1.0 tons per year, according to the 2020 NEI. Table 10 includes the two largest sources of Pb emissions in Reno, NV CBSA.

Table 10  
Near-Road NO<sub>2</sub>, PM<sub>2.5</sub>, and CO Monitors

CBSA	Population (year)	Max AADT Counts (year)	Number of Monitors						
			Required NO <sub>2</sub>	Active NO <sub>2</sub>	Required PM <sub>2.5</sub>	Active PM <sub>2.5</sub>	Required CO	Active CO	Additional Needed
Reno, NV	508,759 (2023)	169,000 <sup>7</sup> (2022)	0	0	0	0	0	0	0

Title 40 CFR 58.13 and Appendix D to Title 40 CFR 58, Sections 4.2, 4.3, and 4.7 require one near-road CO monitor to operate collocated with one near-road NO<sub>2</sub> monitor in CBSAs having a population of 1,000,000 or more persons. An additional NO<sub>2</sub> monitor is required in CBSAs with a population of 2,500,000 or more persons.

<sup>7</sup> NDOT ATR 0310634 between the Plumb-Villanova Interchange 'Exit 65' & Mill St Interchange 'Exit 66'.

## Collocation Requirements

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Title 40 CFR 58, Appendix A, Section 3 describes the number of collocated monitors required for PM<sub>2.5</sub>, PM<sub>10</sub>, and Pb networks at the Primary Quality Assurance Organization (PQAO) level. Tables 11 and 12 display how AQMD is assessing and meeting these collocation requirements.

Table 11  
Collocation of Manual PM<sub>2.5</sub>, PM<sub>10</sub>, and non-NCore Pb Monitors

Method Code	Number of Primary Monitors	Number of Collocated Monitors	
		Required	Active
125	0	0	0

Title 40 CFR 58, Appendix A, Section 3.2.3 requires 15 percent (at least 1) of the manual method samplers be collocated. Being that AQMD only runs one manual method sampler for the calculation of PM<sub>10-2.5</sub> at the Reno4 NCore station, and all the Primary PM<sub>10</sub> monitors are continuous methods, there is no collocation requirement.

Table 12  
Collocation of Automated FEM PM<sub>2.5</sub> Monitors

Method Code	Number of Primary Monitors	Number of Required Collocated Monitors	Number of Active Collocated FRM Monitors	Number of Active Collocated FEM Monitors (same method designation as primary)
170	4	1	1	0

Title 40 CFR 58, Appendix A, Section 3.2.3 requires 15 percent of the primary monitors of each method designation (at least 1) be collocated. Values of 0.5 and greater round up. The first collocated monitor must be a designated FRM monitor. AQMD meets this requirement by having four Primary PM<sub>2.5</sub> FEM monitors with one at the Reno4 monitoring station collocated with a PM<sub>2.5</sub> FRM sampler.

## Process to Review Changes to PM2.5 Monitoring Network

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40 CFR 58.10(c) requires this annual network plan to “provide for the review of changes to a PM2.5 monitoring network that impact the location of a violating PM2.5 monitor.” There is no current plan to relocate or discontinue any PM2.5 monitor suitable for NAAQS comparison. Any changes to the PM2.5 monitoring network with impact to the location of a violating PM2.5 monitor will be documented in this section of future annual network plans.

## **Network Modifications Completed in 2023**

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### SLAMS:

#### CO (Sparks)

- Took existing CO analyzer offline and discontinued CO monitoring at the Sparks monitoring station. See Appendix B, Network Modification Request/Approval for approved Sparks CO monitor discontinuation.

### NCore:

- No modifications completed.

### Speciation Trends:

- No modifications completed.

### SPM:

- No modifications completed.

## **Additional Changes Completed in 2023**

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### SLAMS:

#### PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>coarse</sub> (Sparks)

- Install new Met One BAM 1020's as part of the 10-year replacement schedule. These monitors were purchased using one-time 103 grant funding received in 2022.

#### Meteorology (South Reno, Spanish Springs, Sparks, and Toll)

- Install new Met One 30.5 Wind Speed and Wind Direction sensors.

### NCore:

#### Meteorology (Reno 4)

- Install new Met One 30.5 Wind Speed and Wind Direction sensor.

#### SO<sub>2</sub>, NO<sub>x</sub> (Reno4)

- Install new T-Series Teledyne trace-level SO<sub>2</sub> and NO<sub>x</sub> analyzers as part of the 10-year replacement schedule.

#### PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>coarse</sub> (Reno4)

- Install new Met One BAM 1020's as part of the 10-year replacement schedule. These monitors were purchased using one-time 103 grant funding received in 2022.

### Speciation Trends:

- No changes completed.

### SPM:

- No changes completed.

## **Network Modifications Proposed for 2024-2025**

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### SLAMS:

O<sub>3</sub> and meteorology (South Reno)

- Discontinue all monitoring at the South Reno station. A formal request stating this proposal will be submitted prior to any modifications to follow the 40 CFR 58.14 criteria.

### NCore:

- No modifications proposed.

### Speciation Trends:

- No modifications proposed.

### SPM:

All pollutants and meteorology (Verdi)

- Begin monitoring PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>coarse</sub>, O<sub>3</sub>, and meteorology at a new site in Verdi. This station will be constructed with American Rescue Plan (ARP) grants funds from EPA. A formal request stating this proposal will be submitted prior to any modifications to follow the 40 CFR 58.14 criteria.

## **Additional Changes Proposed for 2024-2025**

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### SLAMS:

- No changes proposed.

### NCore:

CO (Reno 4)

- Install new CO analyzer as part of the 10-year replacement schedule.

### Speciation Trends:

- Install a new Met One SuperSASS as part of the 10-year replacement schedule. This sampler will be purchased using one-time 103 grant funding from EPA.

### SPM:

- No changes proposed.

## **PM<sub>2.5</sub> Monitoring Network Modifications Proposed for 2024-2025**

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### SLAMS:

#### PM<sub>2.5</sub>

- No modifications proposed.

### NCore:

#### PM<sub>2.5</sub>

- No modifications proposed.

### Speciation Trends:

- No modifications proposed.

### SPM:

#### PM<sub>2.5</sub> (Verdi)

- Begin monitoring PM<sub>2.5</sub> at a new site in Verdi. A formal request stating this proposal will be submitted prior to any modifications to follow the 40 CFR 58.14 criteria.

## **Data Submission Requirements**

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Quality Assurance Data for 2023 were submitted to AQS for the:

- 1st quarter in June 2023
- 2nd quarter in August 2023
- 3rd quarter in December 2023
- 4th quarter in March 2024

Annual Data Certification for all data for 2023 was submitted to EPA on April 26, 2024.

## **Environmental Justice and Underserved Communities**

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Historically Underserved Communities are defined as:

(1) A census tract:

- (I) Designated as a qualified census tract by the United States Secretary of Housing and Urban Development pursuant to 26 U.S.C. § 42(d)(5)(B)(ii); or
- (II) In which, in the immediately preceding census, at least 20 percent of households were not proficient in the English language.

(2) A community in this State with at least one public school:

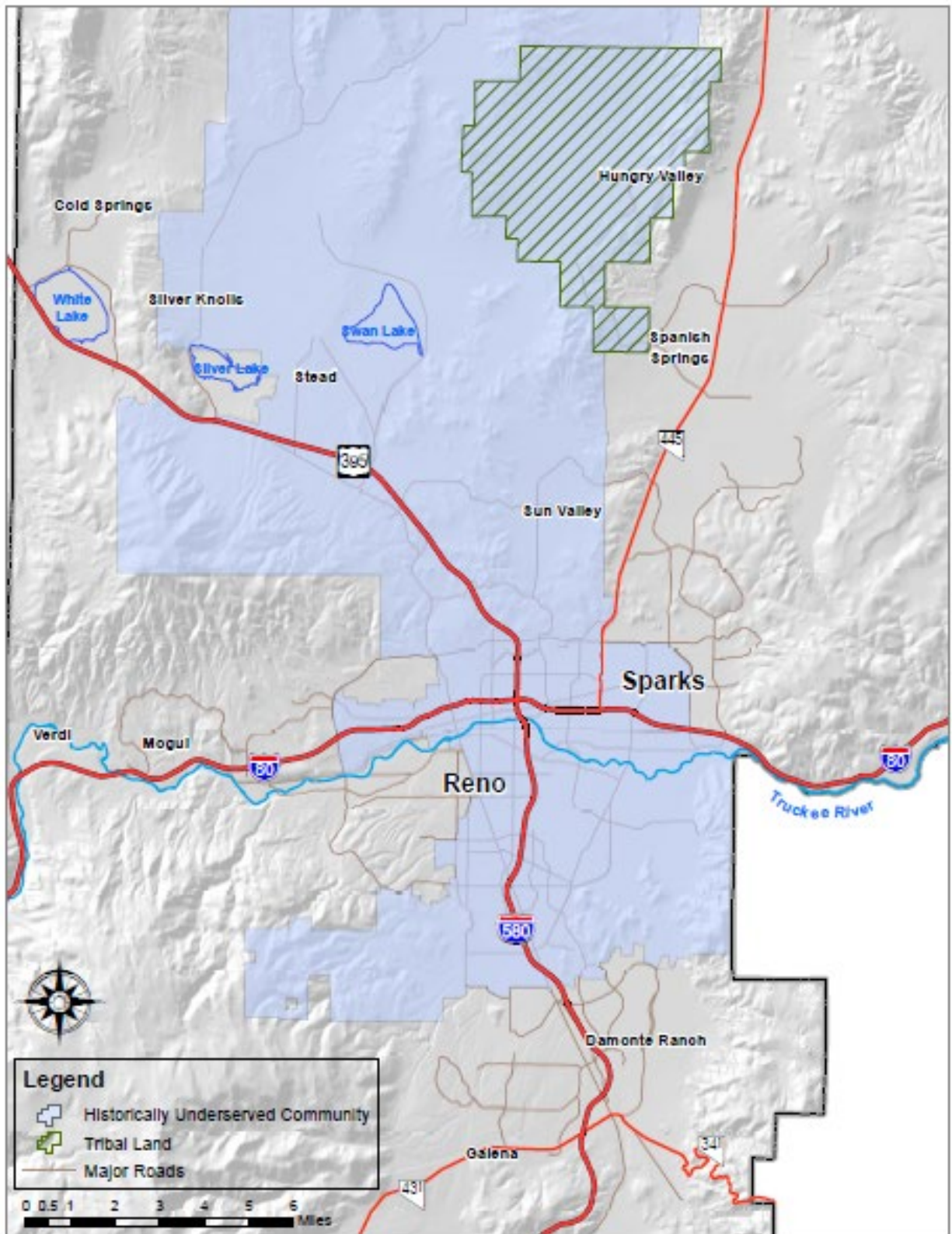
- (I) In which 75 percent or more of the enrolled pupils in the school are eligible for free or reduced-price lunches pursuant to 42 U.S.C. §§ 1751 et seq.; or
- (II) That participates in universal meal service in high poverty areas pursuant to Section 104 of the Healthy, Hunger-Free Kids Act of 2010, Public Law 111-296; or

(3) A community in this State located on qualified tribal land, as defined in NRS 370.0325.

Figure 2 highlights the Historically Underserved Communities in the Reno/Sparks area.



Figure 2  
Historically Underserved Communities in the Reno/Sparks Area



Four out of seven of AQMD's ambient air monitoring sites are located in communities defined above as historically underserved. Those sites are Lemmon Valley, Reno4, South Reno, and Sparks. AQMD will consider environmental justice factors during network design, siting, relocating, or discontinuing monitors, and engaging with specific communities when plans are out for public comment.

## Overview of Tribal Network Operations

### Network Design

One tribe operates an ambient air monitoring network within the geographic boundaries of Washoe County - The Pyramid Lake Paiute Tribe (PLPT). Table 13 summarizes the tribal sites and parameters monitored in 2023. Figure 3 shows the location of tribal lands for the Reno-Sparks Indian Colony (RSIC) and the PLPT, including PLPT's monitoring site. The RSIC does not currently operate an ambient air quality monitoring network in Washoe County. For additional detailed site information about the PLPT monitoring network including annual network plans, refer to the following contact information.

#### Pyramid Lake Paiute Tribe

Tanda Roberts

Air Quality Specialist

Environmental Department

P.O. Box 256

Nixon, NV 89424

(775) 574-0101 ext.18

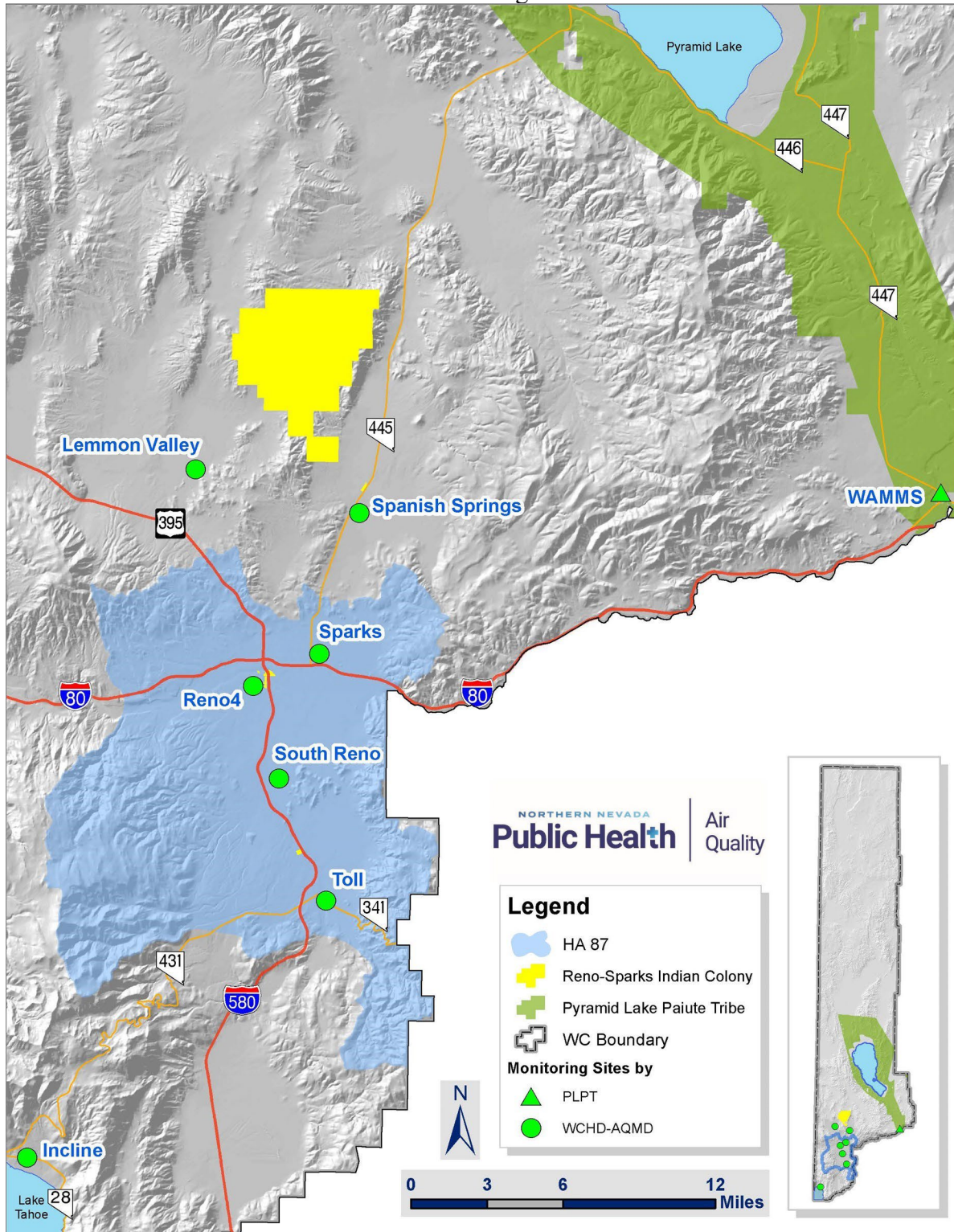
[troberts@plpt.nsn.us](mailto:troberts@plpt.nsn.us)

<https://plpt.nsn.us/>

Table 13  
Tribal Ambient Air Monitoring Sites and Parameters Monitored

Network Site Site ID																		
PLPT	O <sub>3</sub>	CO	Trace CO	NO	NO <sub>2</sub>	NO <sub>x</sub>	Trace NO	NOy-NO	NOy	Trace SO <sub>2</sub>	PM <sub>1.0</sub> (manual)	PM <sub>1.0</sub> (continuous)	PM <sub>2.5</sub> (manual)	PM <sub>2.5</sub> (continuous)	PM <sub>coarse</sub> (manual)	PM <sub>coarse</sub> (continuous)	PM <sub>2.5</sub> Speciation	Meteorology
WADSAQ T-561-1026												✓						✓

Figure 3  
Tribal Monitoring Network





## Northern Nevada Public Health Detailed Site Information

### Incline

This site is located in a Washoe County office building at 855 Alder Avenue and is outside HA 87. It is located in a residential/commercial neighborhood. The AQMD had monitored PM<sub>10</sub> (1993-2002) and CO (1993-2002) and currently monitors for O<sub>3</sub>. This site was temporarily closed from December 2005 to May 2008 for remodeling. By multi-agency cooperative agreement, the California Air Resources Board (CARB) monitored PM<sub>2.5</sub> (1999-2002) and NO<sub>2</sub> (1999-2002). Since May 2008, this site only monitors for O<sub>3</sub>.

<b>Site Name:</b>	Incline
<b>AQS ID:</b>	32-031-2002
<b>Geographical coordinates:</b>	39° 15.025'N, 119° 57.404'W
<b>Elevation:</b>	6,437'
<b>Assessor's Parcel Number:</b>	132-020-23
<b>Owner:</b>	Washoe County
<b>Location:</b>	Inside northeast corner of Washoe County office building.
<b>Street address:</b>	855 Alder Avenue Incline Village, NV 89451
<b>County:</b>	Washoe
<b>Distance to road:</b>	57 meters to Tahoe Boulevard
<b>Traffic count:<sup>8</sup></b>	9,617 AADT (2020-2022) (NDOT ATR 0310379 – SR28 (Tahoe Blvd), 450 feet south of Village Blvd)
<b>Groundcover:</b>	Paved / Vegetated
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	90

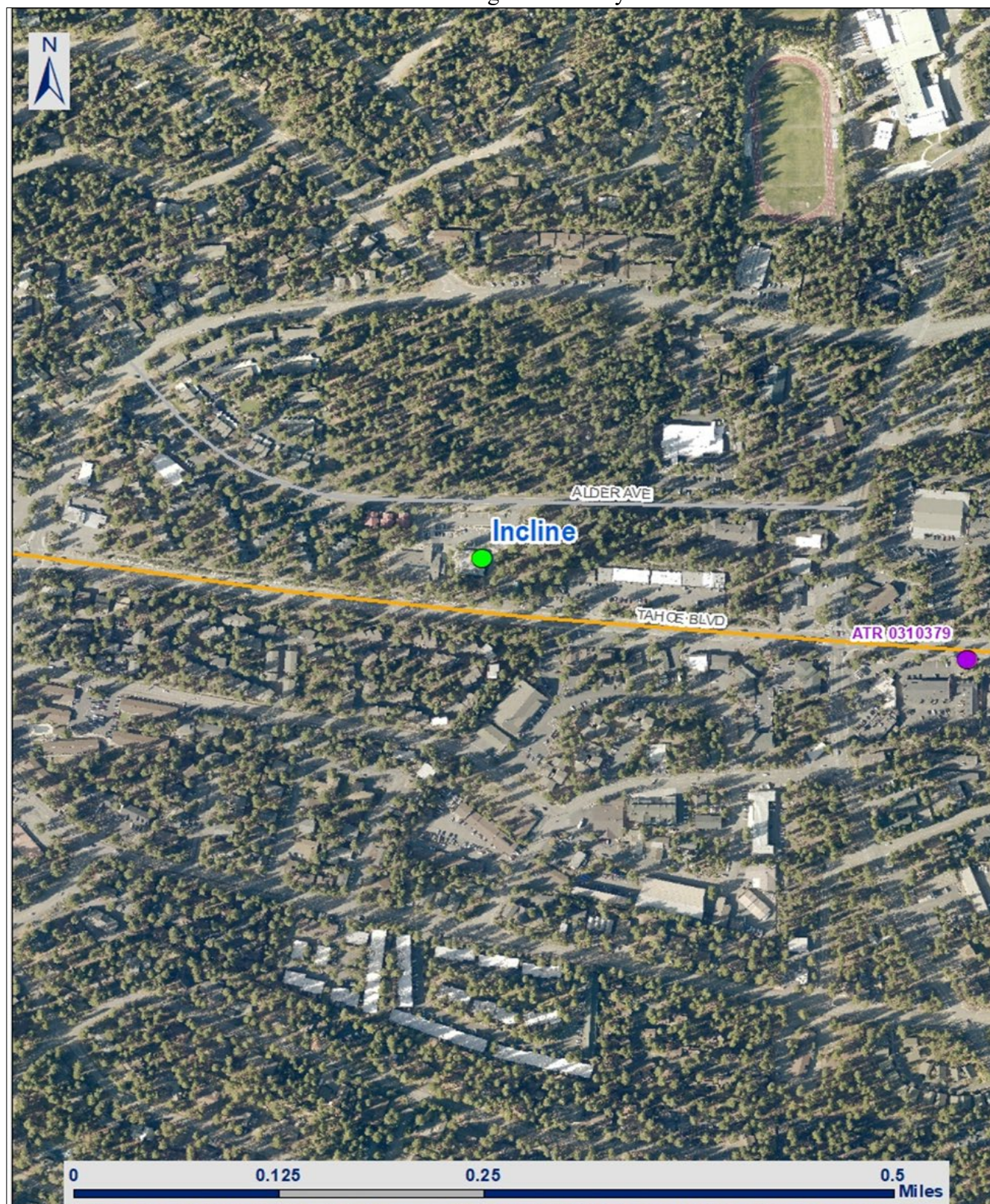
Figure 4  
Incline Monitoring Station



<sup>8</sup> [Nevada Department of Transportation Traffic Information](#)



Figure 5  
Incline Monitoring Site Vicinity Aerial





## Incline (continued)

Pollutant, POC	O <sub>3</sub> , 1
Primary / QA Collocated / Other	n/a
Parameter code	44201
Basic monitoring objective(s)	NAAQS comparison
Site type(s)	Highest Concentration
Monitor type	SLAMS
Network affiliation(s)	n/a
Instrument manufacturer / model	TAPI T400
Method code	087
FRM / FEM / ARM / Other	FEM
Collecting Agency	NNPH - AQMD
Analytical Lab	n/a
Reporting Agency	NNPH - AQMD
Spatial scale	Neighborhood
Monitoring start date	June 1993
Current sampling frequency	Continuous
Required sampling frequency	n/a
Sampling season	01/01 – 12/31
Probe height	5.3 meters
Distance from supporting structure	2.0 meters
Distance from obstructions on roof	n/a
Distance from obstructions not on roof	None
Horizontal distance from trees	10.8 meters <sup>1</sup>
Vertical height of tree above probe	8.7 meters
Distance to furnace or incinerator flue	6.3 meters <sup>2</sup>
Distance between collocated monitors	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a
Unrestricted airflow	360 degrees
Probe material	Teflon
Residence time	8 seconds
Proposed modifications within the next 18 months?	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a
Frequency of one-point QC check (gaseous)	Bi-weekly (3 point)
Date of annual performance evaluation (gaseous & meteorological)	03/17/23 06/21/23 09/20/23
Date of two semi-annual flow rate audits (PM)	n/a

<sup>1</sup>At least 90 percent of the monitoring path is at least 10 meters from the drip line of the trees.

<sup>2</sup>At least 90 percent of the monitoring path is away from the furnace flue.

## Lemmon Valley

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Located at the Boys and Girls Club at 325 Patrician Drive, this site is outside HA 87. It is in a transitional area among residences, parks, and open fields.

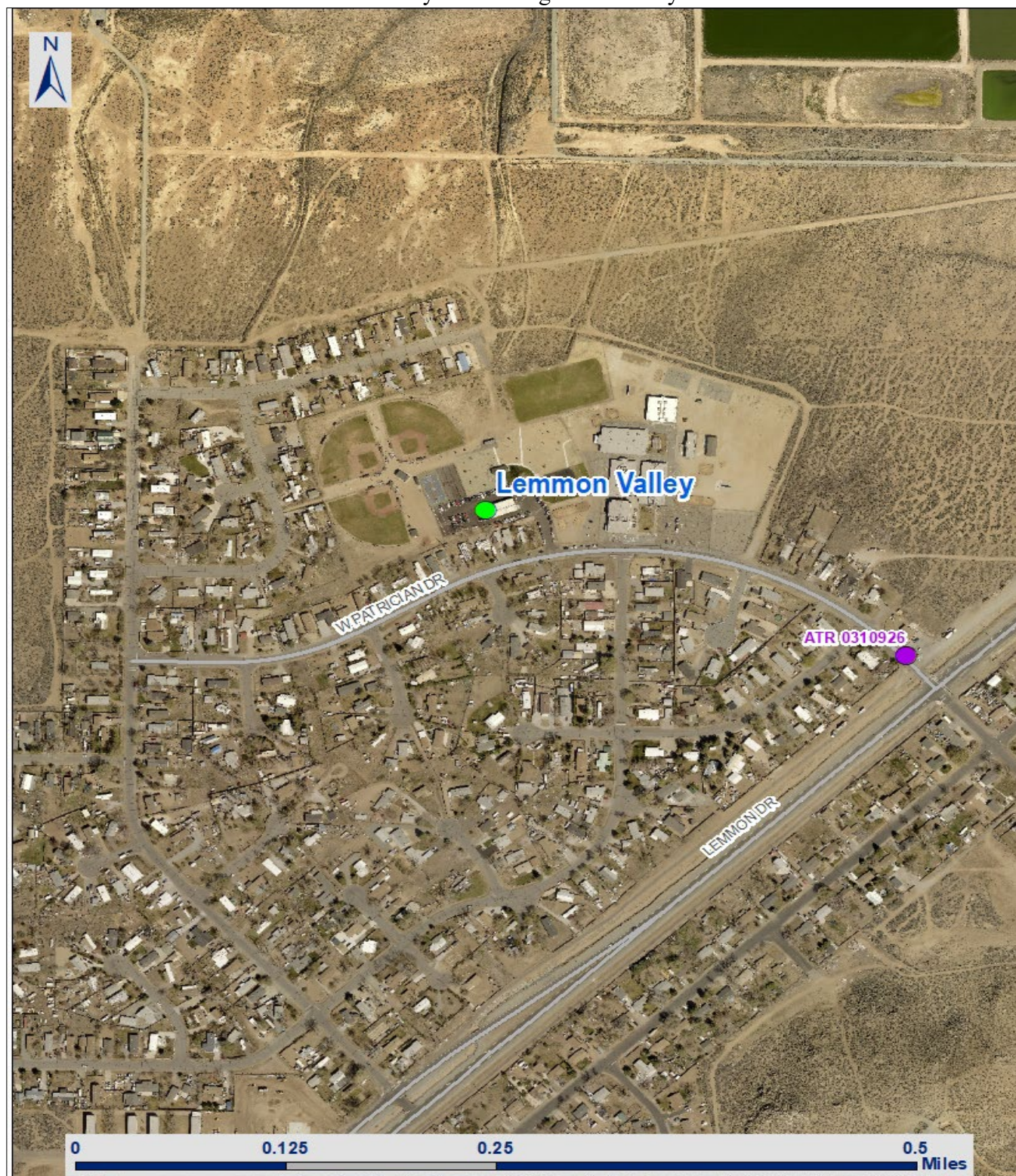
<b>Site name:</b>	Lemmon Valley
<b>AQS ID:</b>	32-031-2009
<b>Geographical coordinates:</b>	39° 38.716'N, 119° 50.401'W
<b>Elevation:</b>	4,925'
<b>Assessor's Parcel Number</b>	080-461-31
<b>Owner:</b>	Washoe County
<b>Location:</b>	Inside northwest corner of Boys and Girls Club.
<b>Street address:</b>	325 W. Patrician Drive Reno, NV 89506
<b>County:</b>	Washoe
<b>Distance to road:</b>	59 meters to Patrician Drive.
<b>Traffic count:</b>	747 AADT (2020-2022) (NDOT ATR 0310926 - Patrician Drive, 150 feet west of Lemmon Drive)
<b>Groundcover:</b>	Paved / Vegetated
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	92B

Figure 6  
Lemmon Valley Monitoring Station





Figure 7  
Lemmon Valley Monitoring Site Vicinity Aerial





## Lemmon Valley (continued)

Pollutant, POC	O <sub>3</sub> , 1
Primary / QA Collocated / Other	Primary
Parameter code	44201
Basic monitoring objective(s)	NAAQS comparison
Site type(s)	Population Exposure
Monitor type	SLAMS
Network affiliation(s)	n/a
Instrument manufacturer / model	TAPI T400
Method code	087
FRM / FEM / ARM / Other	FEM
Collecting Agency	NNPH - AQMD
Analytical Lab	n/a
Reporting Agency	NNPH - AQMD
Spatial scale	Urban
Monitoring start date	January 1987
Current sampling frequency	Continuous
Required sampling frequency	n/a
Sampling season	01/01 – 12/31
Probe height	5.5 meters
Distance from supporting structure	2.0 meters
Distance from obstructions on roof	n/a
Distance from obstructions not on roof	None
Horizontal distance from trees	21 meters
Vertical height of tree above probe	9.5 meters
Distance to furnace or incinerator flue	9.1 meters <sup>1</sup>
Distance between collocated monitors	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a
Unrestricted airflow	360 degrees
Probe material	Teflon
Residence time	7 seconds
Proposed modifications within the next 18 months?	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a
Frequency of one-point QC check (gaseous)	Bi-weekly (3 point)
Date of annual performance evaluation (gaseous & meteorological)	03/15/23 06/14/23 09/11/23 11/30/23
Date of two semi-annual flow rate audits (PM)	n/a

<sup>1</sup>At least 90 percent of the monitoring path is away from the furnace flue.

## Reno4

Located at Libby C. Booth Elementary School at 1450 Stewart Street in Reno, this site is near the northern edge of the playground and bus loading/unloading zone. Reno4 began monitoring in January 2020 as a relocation of the Reno3 site. Reno4 is an NCore site and monitors for O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, PM<sub>coarse</sub>, Trace CO, Trace SO<sub>2</sub>, NO<sub>x</sub>, and Trace NO<sub>y</sub>. Meteorological parameters including ambient temperature, relative humidity, wind speed, and wind direction are also monitored. This site is also part of EPA's national Speciation Trends Network (STN).

<b>Site name:</b>	Reno4
<b>AQS ID:</b>	32-031-0031
<b>Geographical coordinates:</b>	39° 31.316'N, 119° 47.724'W
<b>Elevation:</b>	4,461'
<b>Assessor's Parcel Number:</b>	013-042-01
<b>Owner:</b>	Washoe County School District Board
<b>Location:</b>	North edge of Libby Booth Elementary School property.
<b>Street address:</b>	1260-A Stewart St. Reno NV 89502
<b>County:</b>	Washoe
<b>Distance to road:</b>	10 meters to Stewart St. and 150 meters to Yori Ave.
<b>Traffic count:</b>	847 AADT (2020-2022) (NDOT ATR 0310886 - Yori Ave, 165 feet north of Stewart St.) ≤900 Approximate AADT (NDOT Estimate – Stewart Street)
<b>Groundcover:</b>	Decomposed Granite
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	87

Figure 8  
Reno4 Monitoring Station





Figure 9  
Reno4 Monitoring Site Vicinity Aerial





## Reno4 (continued)

<b>Pollutant, POC</b>	PM <sub>10</sub> , 2	PM <sub>2.5</sub> , 2	PM <sub>10-2.5</sub> , 2	PM <sub>2.5</sub> Speciation, 5
<b>Primary / QA Collocated / Other</b>	Primary	Primary	Primary	Primary
<b>Parameter code</b>	81102 & 85101	88101	86101	88502
<b>Basic monitoring objective(s)</b>	NAAQS comparison	NAAQS comparison	Research Support	Research Support
<b>Site type(s)</b>	Population Exposure	Highest Concentration	n/a	Population Exposure
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	NCore	NCore	NCore	STN, NCore
<b>Instrument manufacturer / model</b>	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020 Coarse Pair	Met One SASS; URG 3000N
<b>Method code</b>	122	170	185	SASS: 810 URG: 870
<b>FRM / FEM / ARM / Other</b>	FEM	FEM	FEM	Other
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	n/a	n/a	n/a	Wood
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	UC Davis
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	January 2020	January 2020	January 2020	January 2020
<b>Current sampling frequency</b>	Continuous	Continuous	Continuous	1:3
<b>Required sampling frequency</b>	n/a	n/a	n/a	1:3
<b>Sampling season</b>	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
<b>Probe height</b>	5.2 meters	5.1 meters	5.1 meters	SASS: 4.9 meters URG: 5.1 meters
<b>Distance from supporting structure</b>	2.2 meters	2.2 meters	2.2 meters	SASS: 1.8 meters URG: 2.1 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	None	None	None	None
<b>Horizontal distance from trees</b>	42.0 meters	43.2 meters	42.0 meters	SASS: 44.7 meters URG: 46.0 meters
<b>Vertical height of tree above probe</b>	9.8 meters	9.9 meters	9.9 meters	SASS: 10.1 meters URG: 9.9 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	1.2 meters	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	No	No	No	No
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	n/a	n/a	n/a	n/a
<b>Residence time</b>	n/a	n/a	n/a	n/a
<b>Proposed modifications within the next 18 months?</b>	None	None	None	None
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	Yes	n/a	No
<b>Frequency of flow rate verification for manual samplers (PM)</b>	n/a	n/a	n/a	Monthly verifications and quarterly audits
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	Bi-weekly verifications and quarterly audits	Bi-weekly verifications and quarterly audits	Bi-weekly verifications and quarterly audits	n/a
<b>Frequency of one-point QC check (gaseous)</b>	n/a	n/a	n/a	n/a
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	n/a	n/a	n/a	n/a
<b>Date of two semi-annual flow rate audits (PM)</b>	02/03/23 04/13/23 08/15/23 10/16/23	02/03/23 04/13/23 08/15/23 10/16/23	02/03/23 04/13/23 08/15/23 10/16/23	03/29/23 06/15/23 09/20/23 12/15/23 12/28/23

## Reno4 (continued)

<b>Pollutant, POC</b>	PM <sub>10</sub> , 1	PM <sub>2.5</sub> , 1	PM <sub>10-2.5</sub> , 1	Trace CO, 1
<b>Primary / QA Collocated / Other</b>	Other	QA Collocated	Other	n/a
<b>Parameter code</b>	85101	88101	86101	42101
<b>Basic monitoring objective(s)</b>	Research Support	NAAQS comparison	Research Support	NAAQS comparison
<b>Site type(s)</b>	n/a	Population Exposure	n/a	Highest Concentration
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	NCore	NCore	NCore	NCore
<b>Instrument manufacturer / model</b>	Met One E-SEQ	Met One E-SEQ	Met One E-SEQ	TAPI 300EU
<b>Method code</b>	246	545	247	593
<b>FRM / FEM / ARM / Other</b>	FRM	FRM	FRM	FRM
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	n/a
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	January 2020	January 2020	January 2020	January 2020
<b>Current sampling frequency</b>	1:3	1:3	1:3	Continuous
<b>Required sampling frequency</b>	1:3	1:3	1:3	n/a
<b>Sampling season</b>	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
<b>Probe height</b>	5.0 meters	5.0 meters	5.0 meters	4.9 meters
<b>Distance from supporting structure</b>	2.0 meters	2.0 meters	2.0 meters	1.9 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	None	None	None	None
<b>Horizontal distance from trees</b>	42.0 meters	43.2 meters	42.0 meters	45.7 meters
<b>Vertical height of tree above probe</b>	10 meters	10 meters	10 meters	10.1 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	1.2 meters	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	No	No	No	n/a
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	n/a	n/a	n/a	Teflon
<b>Residence time</b>	n/a	n/a	n/a	6 seconds
<b>Proposed modifications within the next 18 months?</b>	None	None	None	None
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	Yes	n/a	n/a
<b>Frequency of flow rate verification for manual samplers (PM)</b>	Monthly verifications and quarterly audits	Monthly verifications and quarterly audits	Monthly verifications and quarterly audits	n/a
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of one-point QC check (gaseous)</b>	n/a	n/a	n/a	Weekly
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	n/a	n/a	n/a	03/28/23 06/16/23 09/22/23 12/20/23
<b>Date of two semi-annual flow rate audits (PM)</b>	03/29/23 06/15/23 09/20/23 12/15/23	03/29/23 06/15/23 09/20/23 12/15/23	03/29/23 06/15/23 09/20/23 12/15/23	n/a

## Reno4 (continued)

Pollutant, POC	O <sub>3</sub> , 1	NO, 1	NO <sub>2</sub> , 1	NO <sub>x</sub> , 1
Primary / QA Collocated / Other	n/a	Primary	Primary	Primary
Parameter code	44201	42601	42602	42603
Basic monitoring objective(s)	NAAQS comparison	Research Support	NAAQS comparison	Research Support
Site type(s)	Population Exposure	n/a	Highest Concentration	n/a
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	NCore	NCore	NCore	NCore
Instrument manufacturer / model	TAPI T400	TAPI 200U	TAPI 200U	TAPI 200U
Method code	087	099	099	099
FRM / FEM / ARM / Other	FEM	FRM	FRM	FRM
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 2020	January 2020	January 2020	January 2020
Current sampling frequency	Continuous	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a	n/a
Sampling season	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31
Probe height	5.1 meters	5.1 meters	5.1 meters	5.1 meters
Distance from supporting structure	2.1 meters	2.1 meters	2.1 meters	2.1 meters
Distance from obstructions on roof	n/a	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None	None
Horizontal distance from trees	45.7 meters	46.9 meters	46.9 meters	46.9 meters
Vertical height of tree above probe	9.9 meters	9.9 meters	9.9 meters	9.9 meters
Distance to furnace or incinerator flue	n/a	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees	360 degrees
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time	6 seconds	5 seconds	5 seconds	5 seconds
Proposed modifications within the next 18 months?	None	None	None	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	Weekly	Weekly (4 point w/ GPT)	Weekly (4 point w/ GPT)	Weekly (4 point w/ GPT)
Date of annual performance evaluation (gaseous & meteorological)	03/28/23 06/16/23 09/22/23 12/20/23	03/29/23 06/16/23 09/21/23 12/21/23	03/29/23 06/16/23 09/21/23 12/21/23	03/29/23 06/16/23 09/21/23 12/21/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a	n/a

## Reno4 (continued)

<b>Pollutant, POC</b>	Trace NO, 1	NO <sub>y</sub> -NO, 1	NO <sub>y</sub> , 1	Trace SO <sub>2</sub> , 1
<b>Primary / QA Collocated / Other</b>	n/a	n/a	n/a	n/a
<b>Parameter code</b>	42601	42612	42600	42401
<b>Basic monitoring objective(s)</b>	Research Support	Research Support	Research Support	NAAQS comparison
<b>Site type(s)</b>	n/a	n/a	n/a	Highest Concentration
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	NCore	NCore	NCore	NCore
<b>Instrument manufacturer / model</b>	TAPI T200U with 501	TAPI T200U with 501	TAPI T200U with 501	TAPI T100U
<b>Method code</b>	699	699	699	600
<b>FRM / FEM / ARM / Other</b>	Other	Other	Other	FEM
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	n/a	n/a	n/a	n/a
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	January 2020	January 2020	January 2020	January 2020
<b>Current sampling frequency</b>	Continuous	Continuous	Continuous	Continuous
<b>Required sampling frequency</b>	n/a	n/a	n/a	n/a
<b>Sampling season</b>	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31
<b>Probe height</b>	8.6 meters	8.6 meters	8.6 meters	5.1 meters
<b>Distance from supporting structure</b>	8.6 meters	8.6 meters	8.6 meters	2.1 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	None	None	None	None
<b>Horizontal distance from trees</b>	47.7 meters	47.7 meters	47.7 meters	45.7 meters
<b>Vertical height of tree above probe</b>	6.4 meters	6.4 meters	6.4 meters	9.9 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	n/a	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	n/a	n/a	n/a	n/a
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	Teflon	Teflon	Teflon	Teflon
<b>Residence time</b>	8 seconds	8 seconds	8 seconds	6 seconds
<b>Proposed modifications within the next 18 months?</b>	None	None	None	None
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	n/a	n/a	n/a
<b>Frequency of flow rate verification for manual samplers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of one-point QC check (gaseous)</b>	Weekly (4 point w/ GPT)	Weekly (4 point w/ GPT)	Weekly (4 point w/ GPT)	Weekly
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	03/28/23 06/16/23 09/21/23	03/28/23 06/16/23 09/21/23	03/28/23 06/16/23 09/21/23	03/28/23 06/16/23 09/22/23 12/20/23
<b>Date of two semi-annual flow rate audits (PM)</b>	n/a	n/a	n/a	n/a



## Reno4 (continued)

Pollutant, POC	Wind Speed, 1	Wind Direction, 1	Ambient Temperature, 1	Relative Humidity, 1
Primary / QA Collocated / Other	n/a	n/a	n/a	n/a
Parameter code	61101 & 61103	61102 & 61104	62101	62201
Basic monitoring objective(s)	Research, Public Information	Research, Public Information	Research, Public Information	Research, Public Information
Site type(s)	n/a	n/a	n/a	n/a
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	NCore	NCore	NCore	NCore
Instrument manufacturer / model	Met One 50.5H Met One 30.5	Met One 50.5H Met One 30.5	Met One 063-1	Met One 083E
Method code	061 071	061 071	040	061
FRM / FEM / ARM / Other	n/a	n/a	n/a	n/a
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 2020	January 2020	January 2020	January 2020
Current sampling frequency	Continuous	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a	n/a
Sampling season	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height	9.7 meters	9.7 meters	9.7 meters	9.7 meters
Distance from supporting structure	9.7 meters	9.7 meters	9.7 meters	9.7 meters
Distance from obstructions on roof	n/a	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None	None
Horizontal distance from trees	47.7 meters	47.7 meters	47.7 meters	47.7 meters
Vertical height of tree above probe	5.3 meters	5.3 meters	5.3 meters	5.3 meters
Distance to furnace or incinerator flue	n/a	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees	360 degrees
Probe material	n/a	n/a	n/a	n/a
Residence time	n/a	n/a	n/a	n/a
Proposed modifications within the next 18 months?	None	None	None	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	n/a	n/a	n/a	n/a
Date of annual performance evaluation (gaseous & meteorological)	03/17/23 04/27/23 11/29/23	03/17/23 04/27/23 11/29/23	03/17/23 12/15/23	03/21/23 12/15/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a	n/a

## South Reno

Located on the NV Energy property at 4110 Delucchi Lane, this site is in a transitional environment between open fields and office buildings.

<b>Site name:</b>	South Reno
<b>AQS ID:</b>	32-031-0020
<b>Geographical coordinates:</b>	39° 28.153'N, 119° 46.521'W
<b>Elevation:</b>	4,449'
<b>Assessor's Parcel Number:</b>	025-460-35
<b>Owner:</b>	Sierra Pacific Power Co.
<b>Location:</b>	Northeast corner of NV Energy campus.
<b>Street address:</b>	4110 Delucchi Lane Reno, NV 89502
<b>County:</b>	Washoe
<b>Distance to road:</b>	37 meters to Delucchi Lane.
<b>Traffic count:</b>	4,467 AADT (2020-2022) (NDOT ATR 0310690 - Neil Road, 515 feet north of Delucchi Lane)
	9,633 AADT (2020-2022) (NDOT ATR 0311159 - Airway Drive, south of McCarran Blvd.)
	≤900 Approximate AADT (NDOT Estimate – Delucchi Lane)
<b>Groundcover:</b>	Gravel / Dirt / Vegetated
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	87

Figure 10  
South Reno Monitoring Station





Figure 11  
South Reno Monitoring Site Vicinity Aerial



## South Reno (continued)

Pollutant, POC	O <sub>3</sub> , 1	Wind Speed, 1	Wind Direction, 1	Ambient Temperature, 1
Primary / QA Collocated / Other	n/a	n/a	n/a	n/a
Parameter code	44201	61101	61102	62101
Basic monitoring objective(s)	NAAQS comparison	Public Information	Public Information	Public Information
Site type(s)	Highest Concentration	n/a	n/a	n/a
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	n/a	n/a	n/a	n/a
Instrument manufacturer / model	TAPI T400	Met One 50.5H Met One 30.5	Met One 50.5H Met One 30.5	Met One 063-1
Method code	087	061 071	061 071	040
FRM / FEM / ARM / Other	FEM	n/a	n/a	n/a
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 1988	January 2014	January 2014	January 2014
Current sampling frequency	Continuous	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a	n/a
Sampling season	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height	4.0 meters	10.0 meters	10.0 meters	5.0 meters
Distance from supporting structure	1.2 meters	10.0 meters	10.0 meters	5.0 meters
Distance from obstructions on roof	n/a	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None	None
Horizontal distance from trees	27 meters	27 meters	27 meters	27 meters
Vertical height of tree above probe	13 meters	3 meters	3 meters	12 meters
Distance to furnace or incinerator flue	n/a	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees	360 degrees
Probe material	Teflon	n/a	n/a	n/a
Residence time	6 seconds	n/a	n/a	n/a
Proposed modifications within the next 18 months?	Yes, see page 10	Yes, see page 10	Yes, see page 10	Yes, see page 10
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	Bi-weekly (3 point)	n/a	n/a	n/a
Date of annual performance evaluation (gaseous & meteorological)	03/22/23 06/13/23 09/12/23 12/12/23	12/13/23	12/13/23	09/01/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a	n/a



## Spanish Springs

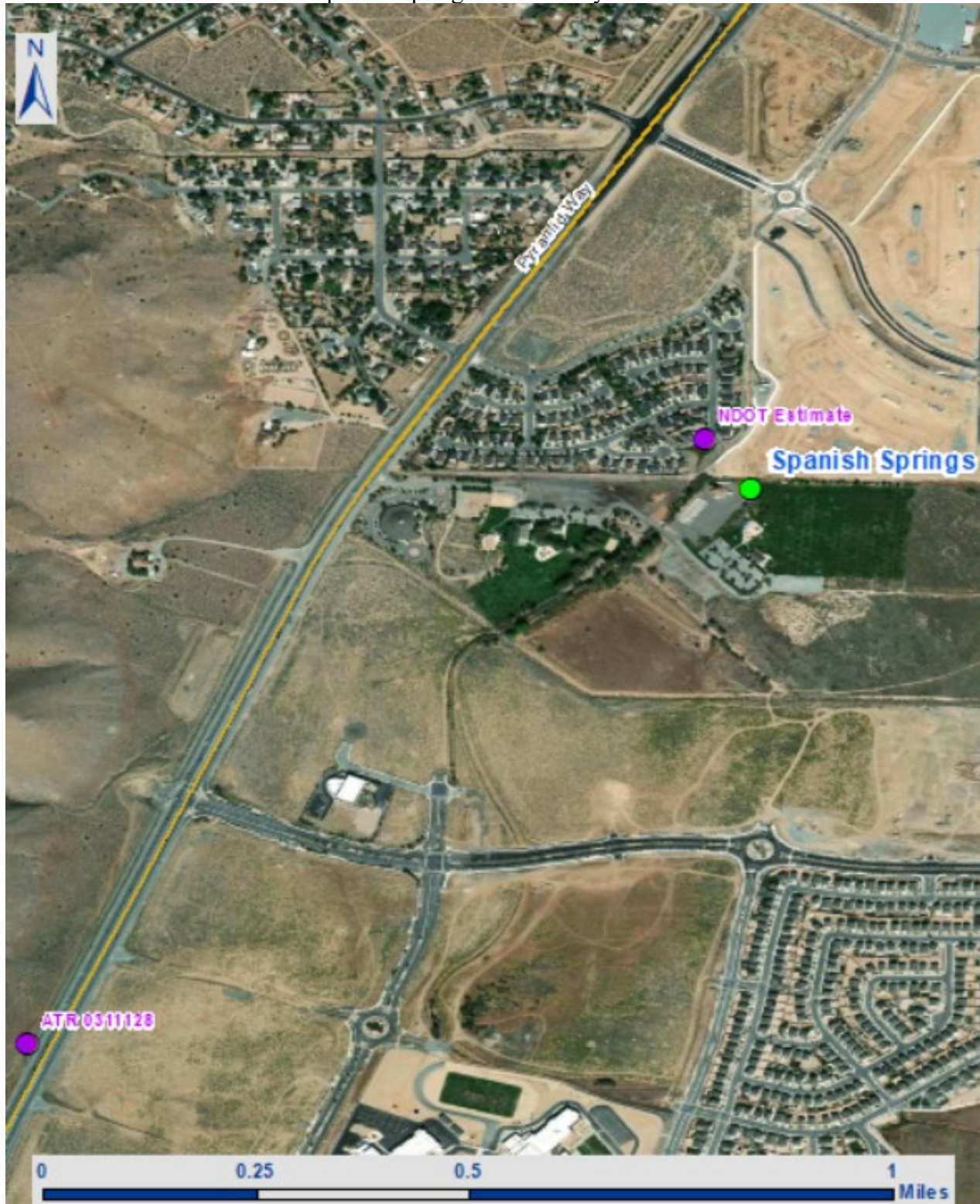
Located on the north side of Lazy 5 Regional Park in Spanish Springs, this site is located outside of HA 87. It is in a transitional area between open rangeland, residential areas, and the Washoe County Public Library. The Spanish Springs site began monitoring O<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and PM<sub>10-2.5</sub> as a SPM on January 1, 2017, and was converted to a SLAMS on July 1, 2018. It began monitoring wind speed, wind direction, and ambient temperature as a SPM on January 1, 2019, and was converted to a SLAMS on January 1, 2020.

<b>Site name:</b>	Spanish Springs
<b>AQS ID:</b>	32-031-1007
<b>Geographical coordinates:</b>	39°37.287' N, 119°43.124' W
<b>Elevation:</b>	4,485'
<b>Assessor's Parcel Number:</b>	083-024-06
<b>Owner:</b>	Washoe County
<b>Location:</b>	North side of Lazy 5 Regional Park.
<b>Street address:</b>	7200 Pyramid Way Sparks, NV 89436
<b>County:</b>	Washoe
<b>Distance to road:</b>	460 meters to Pyramid Hwy and 99 meters to Aquene Court.
<b>Traffic count:</b>	39,500 AADT (2020-2022) (NDOT ATR 0311128 – SR445 (Pyramid Hwy), 0.25 miles north of Sparks Blvd.) ≤900 Approximate AADT (NDOT Estimate – Aquene Court)
<b>Groundcover:</b>	Paved / Vegetated
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	85

Figure 12  
Spanish Springs Monitoring Station



Figure 13  
Spanish Springs Site Vicinity Aerial



## Spanish Springs (continued)

<b>Pollutant, POC</b>	PM <sub>10</sub> , 1	PM <sub>2.5</sub> , 1	PM <sub>10-2.5</sub> , 1	O <sub>3</sub> , 1
<b>Primary / QA Collocated / Other</b>	Primary	Primary	Primary	n/a
<b>Parameter code</b>	81102 & 85101	88101	86101	44201
<b>Basic monitoring objective(s)</b>	NAAQS comparison	NAAQS comparison	Research Support	NAAQS comparison
<b>Site type(s)</b>	Population Exposure	Population Exposure	n/a	Highest Concentration
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	n/a	n/a	n/a	n/a
<b>Instrument manufacturer / model</b>	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020 Coarse Pair	TAPI T400
<b>Method code</b>	122	170	185	087
<b>FRM / FEM / ARM / Other</b>	FEM	FEM	FEM	FEM
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	n/a	n/a	n/a	n/a
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	January 2017	January 2017	January 2017	January 2017
<b>Current sampling frequency</b>	Continuous	Continuous	Continuous	Continuous
<b>Required sampling frequency</b>	n/a	n/a	n/a	n/a
<b>Sampling season</b>	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
<b>Probe height</b>	5.0 meters	5.1 meters	5.1 meters	4.0 meters
<b>Distance from supporting structure</b>	2.1 meters	2.2 meters	2.2 meters	1.1 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	n/a	n/a	n/a	n/a
<b>Horizontal distance from trees</b>	33 meters	34 meters	33 meters	35 meters
<b>Vertical height of tree above probe</b>	n/a	n/a	n/a	1.0 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	n/a	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	No	No	No	n/a
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	n/a	n/a	n/a	Teflon
<b>Residence time</b>	n/a	n/a	n/a	6 seconds
<b>Proposed modifications within the next 18 months?</b>	None	None	None	None
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	Yes	n/a	n/a
<b>Frequency of flow rate verification for manual samplers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	n/a
<b>Frequency of one-point QC check (gaseous)</b>	n/a	n/a	n/a	Bi-weekly (3 point)
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	n/a	n/a	n/a	03/15/23 06/13/23 09/11/23 11/30/23
<b>Date of two semi-annual flow rate audits (PM)</b>	02/16/23 05/18/23 08/18/23 12/21/23	02/16/23 05/18/23 08/18/23 12/21/23	02/16/23 05/18/23 08/18/23 12/21/23	n/a



## Spanish Springs (continued)

Pollutant, POC	Wind Speed, 1	Wind Direction, 1	Ambient Temperature, 1
Primary / QA Collocated / Other	n/a	n/a	n/a
Parameter code	61101	61102	62101
Basic monitoring objective(s)	Public Information	Public Information	Public Information
Site type(s)	n/a	n/a	n/a
Monitor type	SLAMS	SLAMS	SLAMS
Network affiliation(s)	n/a	n/a	n/a
Instrument manufacturer / model	Met One 50.5H Met One 30.5	Met One 50.5H Met One 30.5	Met One 063-1
Method code	061 071	061 071	040
FRM / FEM / ARM / Other	n/a	n/a	n/a
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 2019	January 2019	January 2019
Current sampling frequency	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a
Sampling season	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height	10.0 meters	10.0 meters	5.0 meters
Distance from supporting structure	10.0 meters	10.0 meters	5.0 meters
Distance from obstructions on roof	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None
Horizontal distance from trees	32 meters	32 meters	32 meters
Vertical height of tree above probe	n/a	n/a	n/a
Distance to furnace or incinerator flue	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees
Probe material	n/a	n/a	n/a
Residence time	n/a	n/a	n/a
Proposed modifications within the next 18 months?	None	None	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	n/a	n/a	n/a
Date of annual performance evaluation (gaseous & meteorological)	02/16/23 05/02/23 06/08/23 10/05/23	02/16/23 05/02/23 06/08/23 10/05/23	02/16/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a



## Sparks

The Sparks site is located on US Postal Service property at 750 Fourth Street. The site is surrounded by commercial property, a residential neighborhood and is adjacent to Dilworth Middle School. In 2007 the Sparks site was moved approximately 55 meters north of its previous location, due to tree growth affecting siting criteria.

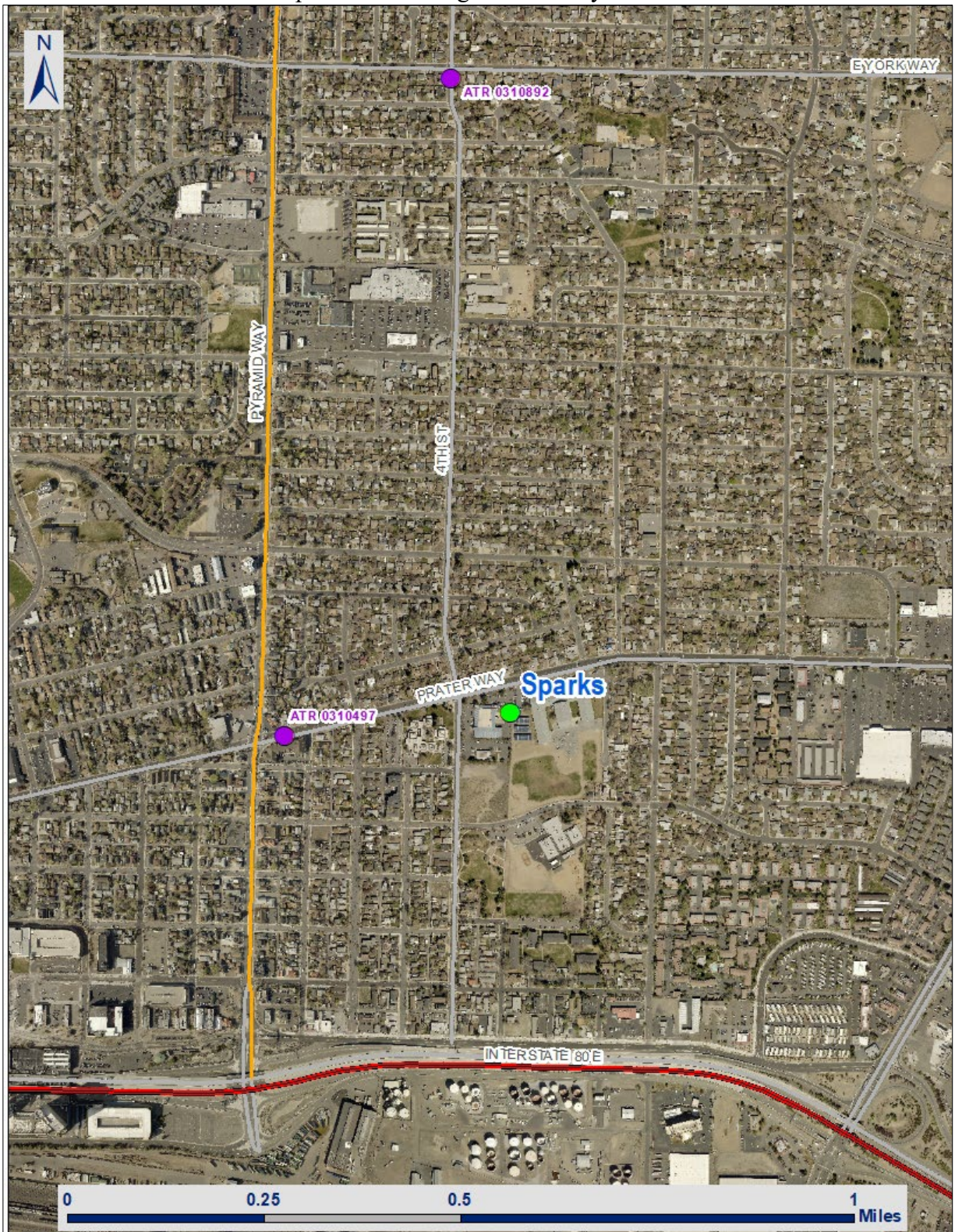
<b>Site name:</b>	Sparks
<b>AQS ID:</b>	32-031-1005
<b>Geographical coordinates:</b>	39° 32.455'N, 119° 44.806'W
<b>Elevation:</b>	4,409'
<b>Assessor's Parcel Number:</b>	033-253-04
<b>Owner:</b>	United States Postal Service
<b>Location:</b>	East end of US Postal Service back parking lot.
<b>Street address:</b>	750 4 <sup>th</sup> Street Sparks, NV 89431
<b>County:</b>	Washoe
<b>Distance to road:</b>	50 meters to Prater Way and 103 meters to 4 <sup>th</sup> Street.
<b>Traffic count:</b>	13,300 AADT (2020-2022) (NDOT ATR 0310497 - Prater Way, 100 feet east of Pyramid Way) 1,850 AADT (2020-2022) (NDOT ATR 0310892 - 4th Street, 123 feet north of Tasker Way & 129 feet south of York Way)
<b>Groundcover:</b>	Paved / Vegetated / Decomposed Granite
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	87

Figure 14  
Sparks Monitoring Station





Figure 15  
Sparks Monitoring Site Vicinity Aerial





## Sparks (continued)

<b>Pollutant, POC</b>	PM <sub>10</sub> , 4 & 3	PM <sub>2.5</sub> , 1	PM <sub>10-2.5</sub> , 1	CO, 1
<b>Primary / QA Collocated / Other</b>	Primary	Primary	Primary	n/a
<b>Parameter code</b>	81102 & 85101	88101	86101	42101
<b>Basic monitoring objective(s)</b>	NAAQS comparison	NAAQS comparison	Research Support	NAAQS comparison
<b>Site type(s)</b>	Population Exposure	Highest Concentration	n/a	Population Exposure
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	n/a	n/a	n/a	n/a
<b>Instrument manufacturer / model</b>	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020 Coarse Pair	TAPI 300EU
<b>Method code</b>	122	170	185	093
<b>FRM / FEM / ARM / Other</b>	FEM	FEM	FEM	FRM
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	n/a	n/a	n/a	n/a
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	April 1988	January 2012	July 2014	January 1980
<b>Current sampling frequency</b>	Continuous	Continuous	Continuous	Continuous
<b>Required sampling frequency</b>	n/a	n/a	n/a	n/a
<b>Sampling season</b>	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
<b>Probe height</b>	5.1 meters	5.0 meters	5.0 meters	4.6 meters
<b>Distance from supporting structure</b>	2.1 meters	2.1 meters	2.1 meters	1.7 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	None	None	None	None
<b>Horizontal distance from trees</b>	26 meters	26 meters	26 meters	27 meters
<b>Vertical height of tree above probe</b>	10.9 meters	11 meters	11 meters	11.4 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	n/a	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	No	No	No	n/a
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	n/a	n/a	n/a	Teflon
<b>Residence time</b>	n/a	n/a	n/a	3 seconds
<b>Proposed modifications within the next 18 months?</b>	None	None	None	Discontinue
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	Yes	n/a	n/a
<b>Frequency of flow rate verification for manual samplers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	n/a
<b>Frequency of one-point QC check (gaseous)</b>	n/a	n/a	n/a	Bi-weekly (3 point)
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	n/a	n/a	n/a	03/17/23 06/13/23 09/12/23 11/30/23
<b>Date of two semi-annual flow rate audits (PM)</b>	02/03/23 04/14/23 08/14/23 10/16/23	02/03/23 04/14/23 08/14/23 10/16/23	02/03/23 04/14/23 08/14/23 10/16/23	n/a

## Sparks (continued)

Pollutant, POC	O <sub>3</sub> , 1	Wind Speed, 1	Wind Direction, 1	Ambient Temperature, 1
Primary / QA Collocated / Other	n/a	n/a	n/a	n/a
Parameter code	44201	61101	61102	62101
Basic monitoring objective(s)	NAAQS comparison	Public Information	Public Information	Public Information
Site type(s)	Highest Concentration	n/a	n/a	n/a
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s)	n/a	n/a	n/a	n/a
Instrument manufacturer / model	TAPI T400	Met One 50.5H Met One 30.5	Met One 50.5H Met One 30.5	Met One 063-1
Method code	087	061 071	061 071	040
FRM / FEM / ARM / Other	FEM	n/a	n/a	n/a
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 1979	January 2014	January 2014	January 2014
Current sampling frequency	Continuous	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a	n/a
Sampling season	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height	4.6 meters	10.0 meters	10.0 meters	5.0 meters
Distance from supporting structure	1.7 meters	10.0 meters	10.0 meters	5.0 meters
Distance from obstructions on roof	n/a	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None	None
Horizontal distance from trees	26 meters	27 meters	27 meters	27 meters
Vertical height of tree above probe	11.4 meters	6 meters	6 meters	11 meters
Distance to furnace or incinerator flue	n/a	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees	360 degrees
Probe material	Teflon	n/a	n/a	n/a
Residence time	3 seconds	n/a	n/a	n/a
Proposed modifications within the next 18 months?	None	None	None	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	Bi-weekly (3 point)	n/a	n/a	n/a
Date of annual performance evaluation (gaseous & meteorological)	03/17/23 06/13/23 09/12/23 11/30/23	12/13/23	12/13/23	09/19/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a	n/a

## Toll

The Toll Road site is located at 684A State Route 341 (Geiger Grade), one-half mile east of US Highway 395. The site is near the edge of a residential neighborhood and adjacent to an area that is becoming commercially developed with an apartment complex and storage units. The Toll site began monitoring PM<sub>2.5</sub> and PM<sub>10-2.5</sub> on January 1, 2019, and was converted to a SLAMS on January 1, 2020.

<b>Site name:</b>	Toll
<b>AQS ID:</b>	32-031-0025
<b>Geographical coordinates:</b>	39° 23.990'N, 119° 44.376'W
<b>Elevation:</b>	4,570'
<b>Assessor's Parcel Number:</b>	017-011-22
<b>Owner:</b>	Washoe County School District Board
<b>Location:</b>	North end of Washoe County School District parking lot.
<b>Street address:</b>	684A State Route 341 Reno, NV 89521
<b>County:</b>	Washoe
<b>Distance to road:</b>	21 meters to SR341 (Geiger Grade Road).
<b>Traffic count:</b>	12,167 AADT (2020-2022) (NDOT ATR 0310137 - SR 341, 0.4 miles east of US 395)
<b>Groundcover:</b>	Paved parking lot
<b>Representative area:</b>	Reno-Sparks MSA
<b>Hydrographic area:</b>	87

Figure 16  
Toll Monitoring Station





Figure 17  
Toll Monitoring Site Vicinity Aerial



**Toll (continued)**

<b>Pollutant, POC</b>	PM <sub>10</sub> , 2	PM <sub>2.5</sub> , 1	PM <sub>10-2.5</sub> , 1	O <sub>3</sub> , 1
<b>Primary / QA Collocated / Other</b>	Primary	Primary	Primary	n/a
<b>Parameter code</b>	81102 & 85101	88101	86101	44201
<b>Basic monitoring objective(s)</b>	NAAQS comparison	NAAQS comparison	Research Support	NAAQS comparison
<b>Site type(s)</b>	Highest Concentration	Population Exposure	n/a	Population Exposure
<b>Monitor type</b>	SLAMS	SLAMS	SLAMS	SLAMS
<b>Network affiliation(s)</b>	n/a	n/a	n/a	n/a
<b>Instrument manufacturer / model</b>	Met One BAM 1020	Met One BAM 1020	Met One BAM 1020 Coarse Pair	TAPI 400E
<b>Method code</b>	122	170	185	087
<b>FRM / FEM / ARM / Other</b>	FEM	FEM	FEM	FEM
<b>Collecting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Analytical Lab</b>	n/a	n/a	n/a	n/a
<b>Reporting Agency</b>	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
<b>Spatial scale</b>	Neighborhood	Neighborhood	Neighborhood	Neighborhood
<b>Monitoring start date</b>	March 1996	January 2019	January 2019	March 1996
<b>Current sampling frequency</b>	Continuous	Continuous	Continuous	Continuous
<b>Required sampling frequency</b>	n/a	n/a	n/a	n/a
<b>Sampling season</b>	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
<b>Probe height</b>	5.0 meters	5.1 meters	5.1 meters	4.0 meters
<b>Distance from supporting structure</b>	2.1 meters	2.2 meters	2.2 meters	1.2 meters
<b>Distance from obstructions on roof</b>	n/a	n/a	n/a	n/a
<b>Distance from obstructions not on roof</b>	None	None	None	None
<b>Horizontal distance from trees</b>	27 meters	25 meters	25 meters	27 meters
<b>Vertical height of tree above probe</b>	2.0 meters	1.9 meters	1.9 meters	3.0 meters
<b>Distance to furnace or incinerator flue</b>	n/a	n/a	n/a	n/a
<b>Distance between collocated monitors</b>	n/a	n/a	n/a	n/a
<b>For low volume PM instruments, is any PM instrument within 1 meter?</b>	No	No	No	n/a
<b>For high volume PM instruments, is any PM instrument within 2 meters?</b>	n/a	n/a	n/a	n/a
<b>Unrestricted airflow</b>	360 degrees	360 degrees	360 degrees	360 degrees
<b>Probe material</b>	n/a	n/a	n/a	Teflon
<b>Residence time</b>	n/a	n/a	n/a	6 seconds
<b>Proposed modifications within the next 18 months?</b>	None	None	None	None
<b>Is it suitable for comparison against the annual PM<sub>2.5</sub> NAAQS?</b>	n/a	Yes	n/a	n/a
<b>Frequency of flow rate verification for manual samplers (PM)</b>	n/a	n/a	n/a	n/a
<b>Frequency of flow rate verification for automated analyzers (PM)</b>	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	Bi-weekly and quarterly audits	n/a
<b>Frequency of one-point QC check (gaseous)</b>	n/a	n/a	n/a	Bi-weekly (3 point)
<b>Date of annual performance evaluation (gaseous &amp; meteorological)</b>	n/a	n/a	n/a	03/22/23 06/15/23 09/20/23 12/12/23
<b>Date of two semi-annual flow rate audits (PM)</b>	03/24/23 06/20/23 09/25/23 12/21/23	03/24/23 06/20/23 09/25/23 12/21/23	03/24/23 06/20/23 09/25/23 12/21/23	n/a

**Toll (continued)**

Pollutant, POC	Wind Speed, 1	Wind Direction, 1	Ambient Temperature, 1
Primary / QA Collocated / Other	n/a	n/a	n/a
Parameter code	61101	61102	62101
Basic monitoring objective(s)	Public Information	Public Information	Public Information
Site type(s)	n/a	n/a	n/a
Monitor type	SLAMS	SLAMS	SLAMS
Network affiliation(s)	n/a	n/a	n/a
Instrument manufacturer / model	Met One 50.5H Met One 30.5	Met One 50.5H Met One 30.5	Met One 063-1
Method code	061 071	061 071	040
FRM / FEM / ARM / Other	n/a	n/a	n/a
Collecting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Analytical Lab	n/a	n/a	n/a
Reporting Agency	NNPH - AQMD	NNPH - AQMD	NNPH - AQMD
Spatial scale	Neighborhood	Neighborhood	Neighborhood
Monitoring start date	January 2014	January 2014	January 2014
Current sampling frequency	Continuous	Continuous	Continuous
Required sampling frequency	n/a	n/a	n/a
Sampling season	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe height	10.0 meters	10.0 meters	5.0 meters
Distance from supporting structure	10.0 meters	10.0 meters	5.0 meters
Distance from obstructions on roof	n/a	n/a	n/a
Distance from obstructions not on roof	None	None	None
Horizontal distance from trees	29 meters	29 meters	29 meters
Vertical height of tree above probe	n/a	n/a	2.0 meters
Distance to furnace or incinerator flue	n/a	n/a	n/a
Distance between collocated monitors	n/a	n/a	n/a
For low volume PM instruments, is any PM instrument within 1 meter?	n/a	n/a	n/a
For high volume PM instruments, is any PM instrument within 2 meters?	n/a	n/a	n/a
Unrestricted airflow	360 degrees	360 degrees	360 degrees
Probe material	n/a	n/a	n/a
Residence time	n/a	n/a	n/a
Proposed modifications within the next 18 months?	None	None	None
Is it suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	n/a	n/a	n/a
Frequency of flow rate verification for manual samplers (PM)	n/a	n/a	n/a
Frequency of flow rate verification for automated analyzers (PM)	n/a	n/a	n/a
Frequency of one-point QC check (gaseous)	n/a	n/a	n/a
Date of annual performance evaluation (gaseous & meteorological)	12/13/23	12/13/23	09/01/23
Date of two semi-annual flow rate audits (PM)	n/a	n/a	n/a





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Air Quality

Please contact Craig Petersen for  
questions and comments at,  
[cpetersen@nnph.org](mailto:cpetersen@nnph.org)

## **Appendix A**

### **Public Inspection Plan**

## Public Inspection Plan

The Northern Nevada Public Health issued a press release in English on May 24, 2024, and a press release in Spanish on May 29, 2024, to inform the public of the annual network plan comment period. The press releases provided a web link to the draft plan and explained how to submit written comments during the comment period. A copy of the press releases, all comments received during the comment period, and AQMD's response to the comments are included below.

NNPH.ORG

English | Español

NORTHERN NEVADA  
**Public Health**  
N E W S R O O M

**NNNP – AIR QUALITY MANAGEMENT SEEKS COMMENT ON  
ANNUAL AMBIENT AIR MONITORING NETWORK PLAN**

May 24, 2024

**May 24, 2024. Reno/Sparks, Nev.** – Northern Nevada Public Health's Air Quality Management Division (AQMD) is requesting written public comment on its draft [2024 Ambient Air Monitoring Network Plan](#), an annual report which provides a detailed description of how and where air pollution is monitored in Washoe County.

Currently, the air monitoring network includes seven locations within the county: Incline Village, Lemmon Valley, Downtown Reno, South Reno, Spanish Springs, Sparks, and Toll Road (near the Virginia City foothills). One or more of the following pollutants are measured at each site: carbon monoxide, oxides of nitrogen, ozone, sulfur dioxide, PM10, and PM2.5.

Air Monitoring Network Plans are required by the U.S. Environmental Protection Agency (EPA), and require the specific location of each monitoring station, siting criteria, monitoring methods and objectives, frequency of sampling, pollutants measured at each station, and aerial photographs showing their physical location.



This plan also summarizes network modifications completed over the last 12 months and proposed network modifications over the next 18 months.

The 2024 plan is substantially similar to the 2023 Ambient Air Monitoring Network Plan, except for the AQMD request and EPA approval to discontinue carbon monoxide monitoring at the Sparks station. A summary of all completed and proposed changes may be found on pages 9-11 of the plan.

Comments will be accepted until midnight on June 24, 2024, and may be submitted via e-mail to [HealthAirQuality-Planning@nnph.org](mailto:HealthAirQuality-Planning@nnph.org). All correspondence must include first and last name and a complete mailing address.

For more information regarding Northern Nevada Public Health's air quality efforts, visit the Air Quality Management Division's website at [OurCleanAir.com](http://OurCleanAir.com).

###

*Please note the Washoe County Health District changed its name to Northern Nevada Public Health on Aug. 31, 2023. [More information is here.](#)*

*Northern Nevada Public Health (NNPH) is nationally accredited by the Public Health Accreditation Board and has jurisdiction over all public health matters in Reno, Sparks, and Washoe County through the policy-making District Board of Health. NNPH consists of five divisions: Administrative Health Services, Air Quality Management, Community and Clinical Health Services, Environmental Health Services and Epidemiology & Public Health Preparedness. [More info can be found here.](#)*

NNPH.ORG

English | Español

NORTHERN NEVADA  
**Public Health**  
NEWSROOM

**NNNP – LA ADMINISTRACIÓN DE LA CALIDAD DEL AIRE SOLICITA  
COMENTARIO SOBRE EL PLAN ANUAL DE LA RED DE MONITOREO  
DEL AIRE AMBIENTAL**

May 29, 2024

**Reno/Sparks, Nev. mayo 29, 2024** – La División de Administración de la Calidad del Aire (AQMD por sus siglas en inglés) de Northern Nevada Public Health solicita comentario público por escrito sobre su borrador de [Plan de la Red de Monitoreo del Aire Ambiental de 2024 \(en inglés\)](#), un informe anual que ofrece una descripción detallada de cómo y dónde se monitorea la contaminación del aire en el condado de Washoe.

Actualmente, la red de monitoreo del aire incluye siete ubicaciones dentro del condado: Incline Village, Lemmon Valley, centro de Reno, Reno Sur, Spanish Springs, Sparks, y Toll Road (cerca de las estribaciones de Virginia City). Uno o más de los siguientes contaminantes se miden en cada sitio: monóxido de carbono, óxidos de nitrógeno, ozono, dióxido de azufre, PM10 y PM2.5.

Los planes de la Red de Monitoreo del Aire son requeridos por la Agencia de Protección del Medio Ambiente de EE. UU. (EPA por sus siglas en inglés), y requieren la ubicación específica de cada estación de monitoreo, criterios de ubicación, métodos y objetivos de

monitoreo, la frecuencia del muestreo, los contaminantes medidos en cada estación y fotografías aéreas que muestren su ubicación física. Este plan también resume las modificaciones de la red completadas en los últimos 12 meses y las modificaciones de la red propuestas para los próximos 18 meses.

El plan de 2024 es sustancialmente similar al Plan de la Red de Monitoreo del Aire Ambiental de 2023, excepto por la petición de AQMD y la aprobación de la EPA para discontinuar el monitoreo de monóxido de carbono en la estación de Sparks. Un resumen de todos los cambios realizados y propuestos puede encontrarse en las páginas 9 a 11 del plan.

Se aceptarán comentarios hasta la medianoche del 24 de junio de 2024 y podrán enviarse por correo electrónico a [HealthAirQuality-Planning@nnph.org](mailto:HealthAirQuality-Planning@nnph.org). Toda la correspondencia debe incluir nombre y apellido y una dirección postal completa.

Para más información sobre los esfuerzos de calidad del aire de Northern Nevada Public Health, visite el sitio de la División de Administración de la Calidad del Aire [OurCleanAir.com](http://OurCleanAir.com).

###

*Favor de notar que el Distrito de Salud del Condado de Washoe ha cambiado su nombre a Northern Nevada Public Health el 31 de agosto, 2023. [Más información aquí.](#)*

*Northern Nevada Public Health (NNPH) es nacionalmente acreditado por la Junta de Acreditación de Salud Pública y tiene jurisdicción sobre todos los asuntos de salud pública en Reno, Sparks, y Washoe County mediante su Junta Directiva del Distrito de Salud del Condado de Washoe. El Distrito consiste en cinco divisiones: Servicios de Salud Administrativos, Administración de Calidad del Aire, Servicios de Salud Comunitaria y Clínica, Servicios de Salud Ambiental y Epidemiología y Preparación para Salud Pública. [Más información aquí.](#)*

## Comment 1

**From:** [Petersen, Craig](#)  
**To:** [Gennavie Bronczyk](#)  
**Cc:** [Candace Stowell](#); [Health - AQ-Planning](#)  
**Subject:** RE: 2023 Annual Network Plan for Washoe County  
**Date:** Monday, June 10, 2024 4:20:07 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)

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Gennavie,

Per your request, and due to the Reno Sparks Indian Colony (RSIC) not currently operating an ambient air monitoring network in Washoe County, we will be removing RSIC contact information from the Tribal Monitoring section of our 2024 Ambient Air Monitoring Network Plan.

Figure 3 of the Plan will still show the location of RSIC tribal lands, but will not include any current or historic monitoring sites.

Thank you for reviewing our plan and submitting comments.

Sincerely,



**Craig Petersen**

*Supervisor - Monitoring and Planning  
Air Quality Management Division*

O: 775-784-7233  
1001 E Ninth St. Bldg. B Reno, NV 89512  
[OurCleanAir.com](#)

[NNPH.org](#) | [f](#) [f](#) [@](#) [X](#) [in](#)

[Click here to take our customer satisfaction survey](#)

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**From:** Petersen, Craig  
**Sent:** Friday, May 24, 2024 11:45 AM  
**To:** Gennavie Bronczyk <[gbronczyk@rsic.org](mailto:gbronczyk@rsic.org)>  
**Cc:** Candace Stowell <[ccstowell@rsic.org](mailto:ccstowell@rsic.org)>; Health - AQ-Planning <[Health-AQ-Planning@nnph.org](mailto:Health-AQ-Planning@nnph.org)>  
**Subject:** RE: 2023 Annual Network Plan for Washoe County

Hi Gennavie,

Thank you very much for your comments regarding our 2024 Ambient Air Monitoring Network Plan.

All comments received will be considered and included in our final submittal package to EPA.

Sincerely,

**Craig Petersen**

*Supervisor - Monitoring and Planning*





Air Quality Management Division

O: 775-784-7233

1001 E Ninth St. Bldg. B Reno, NV 89512

[OurCleanAir.com](http://OurCleanAir.com)

[NNPH.org](http://NNPH.org) |

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**From:** Gennavie Bronczyk <[gbronczyk@rsic.org](mailto:gbronczyk@rsic.org)>  
**Sent:** Friday, May 24, 2024 9:03 AM  
**To:** Health - AQ-Planning <[Health-AQ-Planning@nnph.org](mailto:Health-AQ-Planning@nnph.org)>  
**Cc:** Candace Stowell <[cstowell@rsic.org](mailto:cstowell@rsic.org)>  
**Subject:** 2023 Annual Network Plan for Washoe County

[NOTICE: This message originated outside of Washoe County -- DO NOT CLICK on links or open attachments unless you are sure the content is safe.]

Good Morning,

Please remove the Reno-Sparks Indian Colony from the Draft 2024 Ambient Air Monitoring Network Plan.

Thank you,

*Gennavie Bronczyk, Assistant Planner  
Planning and Community Development Department  
Reno-Sparks Indian Colony  
1937 Prosperity Lane  
Reno, NV 89502  
775-785-1363 ext. 5406  
[www.rsic.org](http://www.rsic.org)  
[RSIC Planning](#)*

## **Appendix B**

### **Network Modification Request/Approval**

#### **Sparks CO Discontinuation**

Dena Vallano  
Manager, Monitoring and Analysis Section  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

October 17, 2023

Subject: Proposed Modifications to the Northern Nevada Public Health, Air Quality Management  
Division Ambient Air Monitoring Network

Dear Ms. Vallano:

Pursuant to 40 CFR Part 58.14, the Northern Nevada Public Health, Air Quality Management Division (AQMD) requests review and approval for a modification to the existing ambient air monitoring network. The AQMD is proposing to discontinue Carbon Monoxide (CO) monitoring at the Sparks SLAMS (AQS ID: 32-031-1005) effective December 31, 2023.

The proposed modification is consistent with AQMD's most recent Annual Network Plan (2023). Attached are the data demonstrations to support AQMD's proposal to discontinue CO monitoring at the Sparks SLAMS.

If you require additional information, please contact Mr. Craig Petersen or me at (775) 784-7200.

Sincerely,



Francisco Vega, P.E.  
Director  
Air Quality Management Division

Attachments: Discontinuation of CO Monitoring at the Sparks SLAMS (AQS ID: 32-031-1005)

E-Copy: Randall Chang, EPA Region 9  
Francisco Vega, AQMD  
Craig Petersen, AQMD  
Daniel Timmons, AQMD  
Brendan Schnieder, AQMD

Attachment A  
Discontinuation of CO Monitoring at the Sparks SLAMS (AQS ID: 32-031-1005)

Discontinuation of CO monitoring at the Sparks SLAMS is based on 40 CFR 58.14(c)(1), including the points below.  
:

1. The monitor has shown attainment during the previous five years (2018-2022), specifically:
  - a. The monitor has not exceeded nor violated the current 1-hour NAAQS of 35 ppm during this period, and
  - b. The monitor has not exceeded nor violated the current 8-hour NAAQS of 9 ppm during this period.
2. The monitor has a probability of less than 10 percent of exceeding 80 percent of the current 1-hour and 8-hour NAAQS.

		5 Year Maximums (2018-2022)												
		Year 1	Year 2	Year 3	Year 4	Year 5	Ave Max							
Parameter	Averaging Times	2018	2019	2020	2021	2022	2018-2022	Std. Dev. (s)	Student's <i>t</i> value (90% confidence)	Number of Data Values ( <i>n</i> )	90% Upper CI	NAAQS	80% NAAQS	Test
CO (ppm)	1-hr	2.3	2.1	2.5	2.2	2.7	2.36	0.24	2.13	5	2.6	35	28.0	PASS
CO (ppm)	8-hr	1.6	1.6	2.1	2.1	2.3	1.94	0.32	2.13	5	2.2	9	7.2	PASS

3. The monitor is not required in the second ten-year CO maintenance plan effective October 31, 2016 (81 FR 59490, August 30, 2016).
4. The monitor is located in the Truckee Meadows CO maintenance area. CO monitoring will continue in the maintenance area at the Reno4 NCore (32-031-0031) SLAMS.
5. The requirements of 40 CFR 58, Appendix D will continue to be met.





## REGION 9

SAN FRANCISCO, CA 94105

December 21, 2023

Francisco Vega  
Director, Air Quality Management Division  
Northern Nevada Public Health  
1001 East Ninth Street, Building B-171  
Reno, Nevada 89512

Dear Director Vega:

This letter provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Northern Nevada Public Health (NNPH) discontinuation of the CO State/Local Air Monitoring Station (SLAMS) monitor at the Sparks (Air Quality System (AQS) Site ID: 32-031-1005) monitoring site. A letter requesting EPA approval of this network change was submitted to EPA on October 17, 2023. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. EPA has reviewed NNPH'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 Sparks site; EPA therefore approves discontinuation of the CO SLAMS monitor at the Sparks site.

Discontinuation of the Sparks 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 Sparks 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 2018-2022). 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. Preliminary 2023 data are consistent with the historical trend and continue to show low concentrations. Although this monitor is located in the Reno, NV CO maintenance area, CO monitoring will continue in this maintenance area at the Reno4 NCore SLAMS site (AQS ID: 32-031-0031) and this monitor is not specifically required by the maintenance plan. Therefore, the closure of this monitoring site does not compromise data collection needed for implementation of the CO NAAQS.

This monitor is not needed to fulfill 40 CFR 58 Appendix D requirements for near-road CO monitoring and is not required by the EPA Regional Administrator. Therefore, the closure of this monitoring site will not prevent NNPH from meeting 40 CFR 58 Appendix D requirements.

Based on these analyses, EPA approves NNPH's discontinuation of the Sparks 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 Randy Chang at (415) 947-4180.

Sincerely,

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

cc (via email): Craig Petersen, NNPH  
Daniel Timmons, NNPH  
Brendan Schnieder, NNPH  
Ben McMullen, NNPH