

NMED

New _____
Mexico _____
Environment
Department



Air Quality Bureau

2018 Annual Network

Review

Table of Contents

Introduction, Public Review and Comment.....	3
Section 1 Overview.....	3
Site Designation Coding	3
Air Monitoring Network.....	4
Air Quality Data.....	4
Overview of Monitored Parameters.....	4
Monitoring Methodology.....	5
Section 2.0 - Network Review by Pollutant and Respective Air Quality Control Regions.....	6
2.1 Nitrogen Dioxide (NO ₂).....	8
NO ₂ - Air Quality Control Region 1	8
NO ₂ - Air Quality Control Region 5	9
NO ₂ - Air Quality Control Region 6	10
2.2 Ozone (O ₃).....	11
O ₃ - Air Quality Control Region 1	12
O ₃ - Air Quality Control Region 2	13
O ₃ - Air Quality Control Region 3	14
O ₃ - Air Quality Control Region 5	15
O ₃ - Air Quality Control Region 6	16
2.3 Sulfur Dioxide (SO ₂).....	18
SO ₂ - Air Quality Control Region 1	18
2.4 Particulate Matter PM _{2.5} Non-Continuous - Federal Reference Method (FRM).....	19
PM _{2.5} - Air Quality Control Region 6	19
2.5 Particulate Matter PM _{2.5} Continuous	20
2.5.1 Particulate Matter PM _{2.5} Continuous (TEOM).....	20
PM _{2.5} - Air Quality Control Region 3	20
2.5.2 Particulate Matter PM _{2.5} Continuous (BAM).....	20
PM _{2.5} - Air Quality Control Region 3	21
PM _{2.5} - Air Quality Control Region 5	21
PM _{2.5} - Air Quality Control Region 6	21
2.6 Particulate Matter PM ₁₀ Non-Continuous – Federal Reference Method (FRM).....	22
PM ₁₀ - Air Quality Control Region 6.....	22
2.7 Particulate Matter PM ₁₀ Continuous (BAM).....	23
PM ₁₀ - Air Quality Control Region 1	23
PM ₁₀ - Air Quality Control Region 6.....	23
PM ₁₀ - Air Quality Control Region 7.....	24
Section 3.0 - Other Projects	25
Section 4.0 - Summary.....	25
4.1 Network Modifications During FY2018	25
4.2 Anticipated Network Modifications During FY2018	26
Section 5.0 - Addressing New Monitoring Requirements in Monitoring Network	27
5.1 Lead	27
5.2 Nitrogen Dioxide	27
5.3 Sulfur Dioxide	27
5.4 Ozone	28
Section 6.0 - Other Issues	29

List of Figures

Figure 1 – New Mexico Air Quality Control Regions	6
Figure 2 – Monitoring Network Locations.....	7
Figure 3 – Air Quality Control Region 1 NO ₂ Monitoring Locations	9
Figure 4 – Air Quality Control Region 5 NO ₂ Monitoring Locations	10
Figure 5 – Air Quality Control Region 6 NO ₂ Monitoring Locations	11
Figure 6 – Northern New Mexico Ozone Monitoring Locations	12
Figure 7 – Southern New Mexico Ozone Monitoring Locations.....	12
Figure 8 – Air Quality Control Region 1 Ozone Monitoring Locations.....	13
Figure 9 – Air Quality Control Region 2 Ozone Monitoring Locations.....	14
Figure 10 – Air Quality Control Region 3 Ozone Monitoring Locations.....	15
Figure 11 – Air Quality Control Region 5 Ozone Monitoring Locations.....	16
Figure 12 – Air Quality Control Region 6 Ozone Monitoring Locations.....	17
Figure 13 – Air Quality Control Region 1 SO ₂ Monitoring Locations.....	18
Figure 14 – Air Quality Control Region 6 PM _{2.5} FRM Monitoring Locations.....	19
Figure 15 – Air Quality Control Region 3 PM _{2.5} Continuous (BAM) Monitoring Locations.....	20
Figure 16 – Air Quality Control Region 5 & 6 PM _{2.5} Continuous (BAM) Monitoring Locations..	21
Figure 17 – Air Quality Control Region 6 PM ₁₀ FRM Monitoring Location	22
Figure 18 – Air Quality Control Region 1 PM ₁₀ Continuous (BAM) Monitoring Location	23
Figure 19 – Air Quality Control Region 6 & 7 PM ₁₀ Continuous (BAM) Monitoring Locations ..	24

List of Tables

Table 1 – New Mexico Monitoring Network 2018.....	29
---	----

**2018 Network Review
Air Quality Bureau
New Mexico Environment Department
July 1, 2018**

**Prepared by
Roman Szkoda, Ambient Air Monitoring Program Manager**

The purpose of this document is to provide information concerning the operation of the ambient air monitoring network by the New Mexico Environment Department (NMED) Air Quality Bureau (AQB) in Fiscal Year 2018 which covers the period from July 1, 2017 through June 30, 2018.

Introduction

In October 2006, US EPA issued final regulations concerning state and local agency ambient air monitoring networks. These regulations require states to submit an annual monitoring network review to US EPA. This network plan is required to provide the framework for establishment and maintenance of an air quality surveillance system and to list any changes that are proposed to take place to the current network during the 2018 Fiscal Year.

Under 40 CFR, Part 58, Subpart B, States are required to submit an annual monitoring network review to the Environmental Protection Agency (EPA) regional office in Dallas, Texas. This network review is required to provide the framework for establishment and maintenance of an air quality surveillance system. The annual monitoring network review must be made available for public inspection for at least 30 days prior to submission to EPA.

1.0 Overview

At the end of the state fiscal year June 30, 2018, the Bureau operated 20 criteria air pollutant monitoring sites located in 11 of the State's 33 counties. Each air monitoring location is sited to meet the three basic monitoring objectives and at least one of the six federal criteria of: NO₂, O₃, CO, Lead, particulate matter (PM₁₀ and PM_{2.5}), and SO₂ for ambient air monitoring networks.

In 2018 the Ambient Air Monitoring Section currently has a full-time staff of six, with one recent vacancy during FY 2018.

Table 1 (Network Element Worksheet) contains a listing of all New Mexico Environment Department, Air Quality Bureau ambient air monitoring sites operating at the end of the state fiscal year 2018.

Site Designation Coding

The NMED-Air Quality Bureau 20 air monitoring stations each have their own state region designation identified with a numeric-alpha code and site name (i.e.1ZB Bloomfield). The number and name represents the state's Air Quality Control Region and the letter(s) identifies the site followed

by the name of the site. In addition, each site has a numeric AQS (Air Quality System) identifier code which is based on EPA's state, county and site ID (i.e. 35-045-1005) designation. The first two numbers identify the state (New Mexico is 35), the second set of three numbers refers to the county where the monitoring site is located. The third set of four numbers is the monitoring site ID number. Figure 1 on page 6 shows the state and EPA air regions. The table below is a complete listing of all 20 air monitoring sites designation code, both state and EPA throughout the network.

<u>NMED Site Designation</u>	<u>EPA - AQS Number Designation</u>
1H - Sub Station	35-045-1005
1ZB - Bloomfield	35-045-0009
1NL - Navajo Lake	35-045-0018
2LL - Los Lunas	35-061-0008
2ZJ - Bernalillo	35-043-1001
3CRD - Coyote Ranger District	35-039-0026
3SFA - Santa Fe Airport	35-049-0021
3ZD - Taos	35-055-0005
5ZR - Carlsbad	35-015-1005
5ZS - Hobbs Jefferson	35-025-0008
6CM - Anthony	35-013-0016
6O - La Union	35-013-0008
6Q - Las Cruces Office	35-013-0025
6WM - West Mesa	35-013-0024
6ZL - Holman Road	35-013-0019
6ZK - Chaparral	35-013-0020
6ZM - Desert View	35-013-0021
6ZN - Santa Teresa	35-013-0022
6ZQ - Solano	35-013-0023
7E - Deming Airport	35-029-0003

Air Monitoring Network

NMED-AQB regulates air quality to protect public health and the environment in the State of New Mexico, excluding Bernalillo County. Air monitoring data are required by regulation and are used to determine compliance with U.S. EPA's NAAQS. Other important uses of the air monitoring data include the production of a daily Air Quality Index (AQI), daily air quality forecast report, support of short and long-term health risk assessments, identification of localized health concerns, and tracking long-term trends in air quality. New Mexico monitors four of the six NAAQS criteria pollutants: NO₂, O₃, particulate matter (PM₁₀ and PM_{2.5}), and SO₂. NMED-AQB does not monitor for CO or Lead as New Mexico currently does not meet the criteria for monitoring these pollutants.

Air Quality Data

Overview of Monitored Parameters – Criteria Pollutants

Nitrogen Dioxide (NO₂)

NO₂ is a highly toxic, reddish brown gas that is created primarily from fuel combustion in industrial sources and vehicles. It creates an odorous haze that causes eye and sinus irritation, blocks natural sunlight, and reduces visibility.

Ozone (O₃)

Ground-level O₃, also known as photochemical smog, is not emitted into the atmosphere as ozone, but rather is formed by the reactions of other pollutants. The primary pollutants entering into this reaction, VOC's and oxides of nitrogen, create ozone in the presence of sunlight. Ozone is a strong irritant of the upper respiratory system and causes damage to crops.

Sulfur Dioxide (SO₂)

SO₂ is a gaseous pollutant that is emitted primarily by industrial furnaces or power plants burning coal or oil containing sulfur. At high concentrations, breathing can be impaired. Damage to vegetation can also result.

Fine Particulate Matter (PM_{2.5})

Fine particulate matter with a diameter of 2.5 microns or less is created primarily from industrial processes and fuel combustion. These particles are breathed deep into the lungs. Exposure to particle pollution is linked to a variety of significant health problems ranging from aggravated asthma to premature death in people with heart and lung disease.

Particulate Matter (PM₁₀)

Particulate matter with a mean diameter of 10 microns or less is emitted from transportation and industrial sources. Exposure to particle pollution is linked to a variety of significant health problems ranging from aggravated asthma to premature death in people with heart and lung disease.

Meteorological Monitoring

NMED-AQB includes meteorological monitoring of the local area because the outcome of air pollutants is influenced by the movement and characteristics of the air mass into which they are emitted. If the air is calm and pollutants cannot disperse, then the concentration of these pollutants will build up. Conversely, if a strong and turbulent wind is blowing, the pollutant will rapidly disperse into the atmosphere and will result in lower concentrations near the pollution source. The measurements of wind speed and direction, temperature, humidity, rainfall, barometric pressure, ultraviolet radiation and solar radiation are important parameters used in the study of air quality monitoring results and to further understand the chemical reactions that occur in the atmosphere.

Monitoring Methodology

NMED-AQB air monitoring network uses Thermo Environmental Instruments i-Series for all gaseous monitoring. The Model 42i Chemiluminescence monitor collects NO/NO_x/NO₂ data, the Model 43i Pulsed Florescence monitor collects SO₂ data and the Model 49i UV Photometric monitor collects Ozone data. For particulate matter sampling, NMED-AQB is now using the Thermo Environmental Instruments 2025i Series Partisol FRM samplers. Three of the four 2025i samplers are PM_{2.5} designated and the fourth is designated as PM₁₀ which replaced the one aging Wedding PM₁₀ sampler. NMED-AQB has replaced all aging TEOM PM₁₀ continuous samplers in the network with Met-One Instrument's BAM-1020 PM₁₀ continuous samplers, per approval

by EPA Region 6 of NMED's – AQB Five+Year Network Assessment and 2016 Annual Network Plan dated October 28, 2016.

2.0 Network Review by Pollutant and Respective Air Quality Control Regions

NMED-AQB has reviewed its current ambient air quality network and proposed changes to the network implemented during Fiscal Year 2018. Current NAAQS, data trends, siting concerns, site access concerns, and other monitoring issues all contribute to any proposed network revisions.

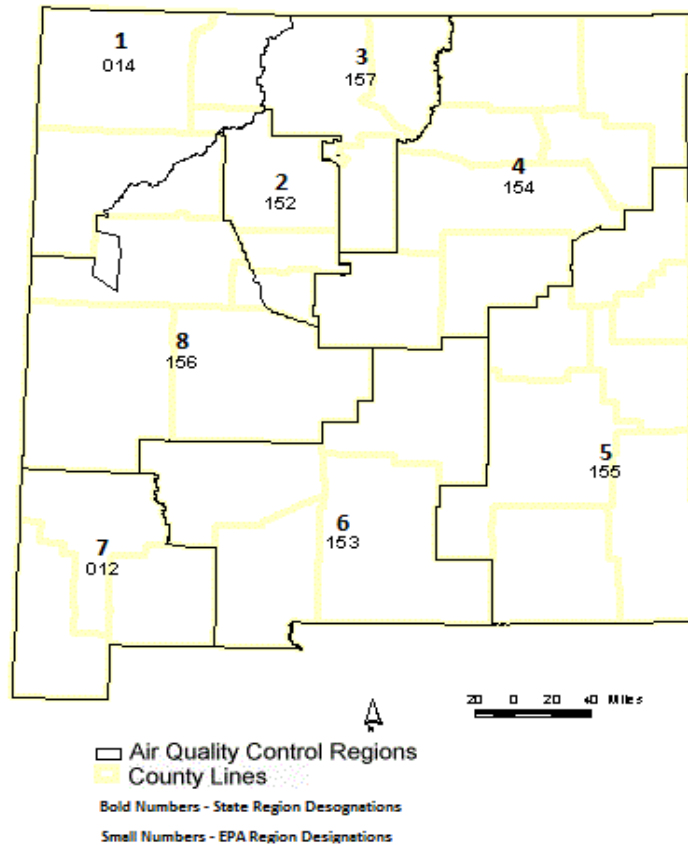
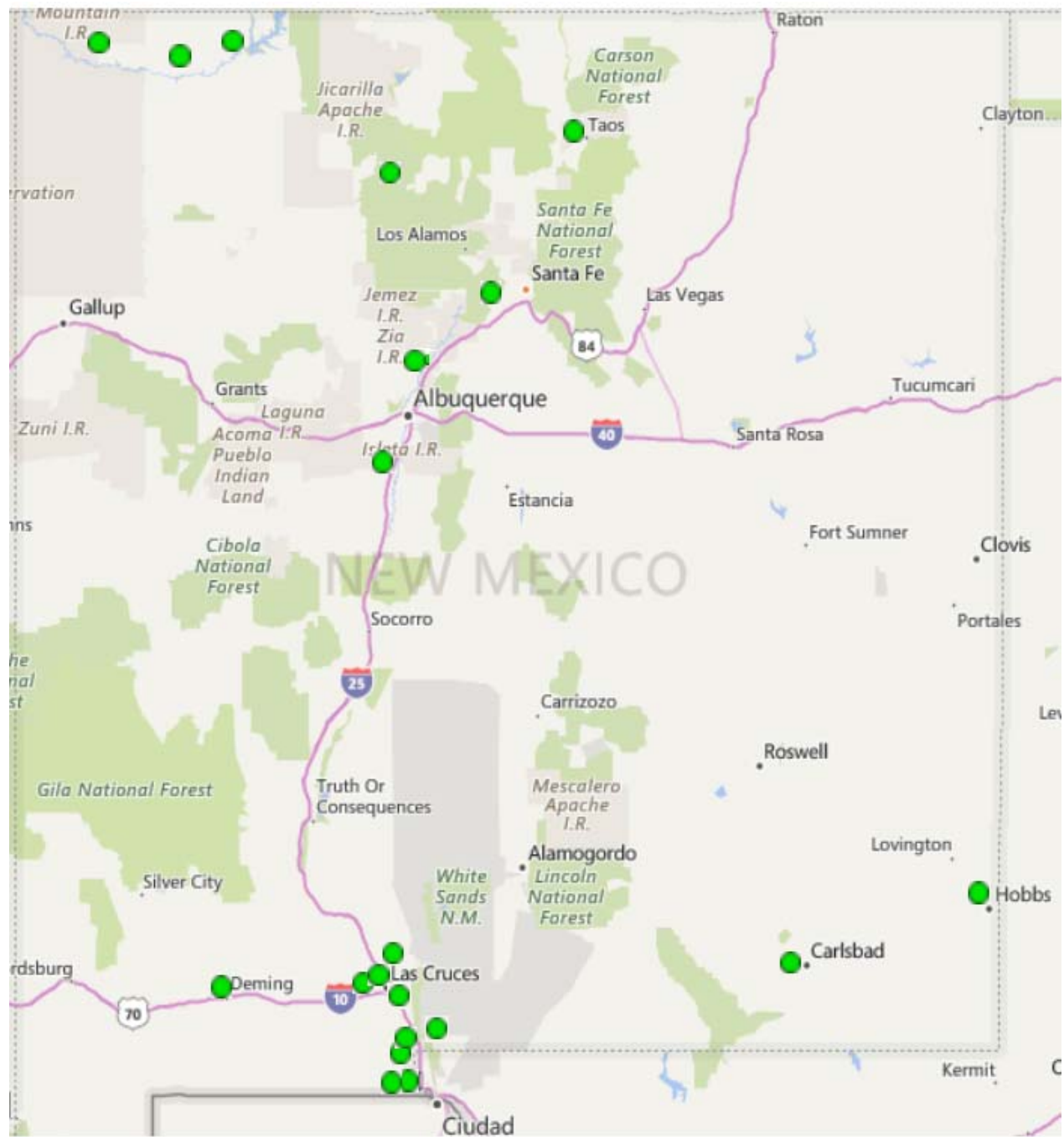


Figure 1

The Bureau's air monitoring network for 2018 consists of the sites and monitors listed in Network Elements Spreadsheet. All site changes (if any) which have occurred or plan to take place in 2018 are included along with any network modifications for 2018. Figure-1 is an overview of the state's and EPA's designation of Air Quality Control Regions (AQCR's). Figure-2 depicts AQB's current monitoring network and shows the locations of monitoring sites as of 2018. The number of monitoring locations operated by the State remained unchanged at 20 sites.



Monitoring Network Locations
Figure 2

Population of Metropolitan Statistical Areas (MSA's)

<u>Albuquerque MSA</u>	<u>Population</u>
*Bernalillo County	676,773
Sandoval County	142,507
Torrance County	15,506
Valencia County	<u>75,940</u>
Total	910,726
<u>El Paso-Las Cruces MSA</u>	<u>Population</u>
Doña Ana County	215,579
<u>Farmington MSA</u>	<u>Population</u>
San Juan County	126,926
<u>Santa Fe MSA</u>	<u>Population</u>
Santa Fe County	<u>148,750</u>
<u>Carlsbad-Artesia & Hobbs CBSA</u>	<u>Population</u>
Eddy County	56,997
Lea County	<u>68,759</u>
Total	125,756
<u>Taos CBSA</u>	<u>Population</u>
Taos County	32,795
*NMED has no air monitoring stations in Bernalillo county due to the City of Albuquerque having its own monitoring group which covers the county.	
Above population statistics based on US Census Bureau 2017 data.	

Based on the most current population NMED's Air Quality Bureau meets the air monitoring network requirements set forth in 40 CFR Part 58 Appendices A through E.

2.1 Nitrogen Dioxide (NO₂)

The Bureau operates seven air monitoring sites in the network for Nitrogen Dioxide. Three in AQCR-1 which are located in San Juan County, two in AQCR-5, one being in Eddy County and the second in Lea County and two in AQCR-6 both of which operate in Doña Ana County.

Nitrogen Dioxide (NO₂) Air Quality Control Region 1 (EPA Region 014)

The Bureau operates three air monitoring sites in AQCR-1 for Nitrogen Dioxide which are located in San Juan County consisting of the Substation, Bloomfield, and Navajo Lake sites. Figure 3 below indicates the location of the monitoring sites.

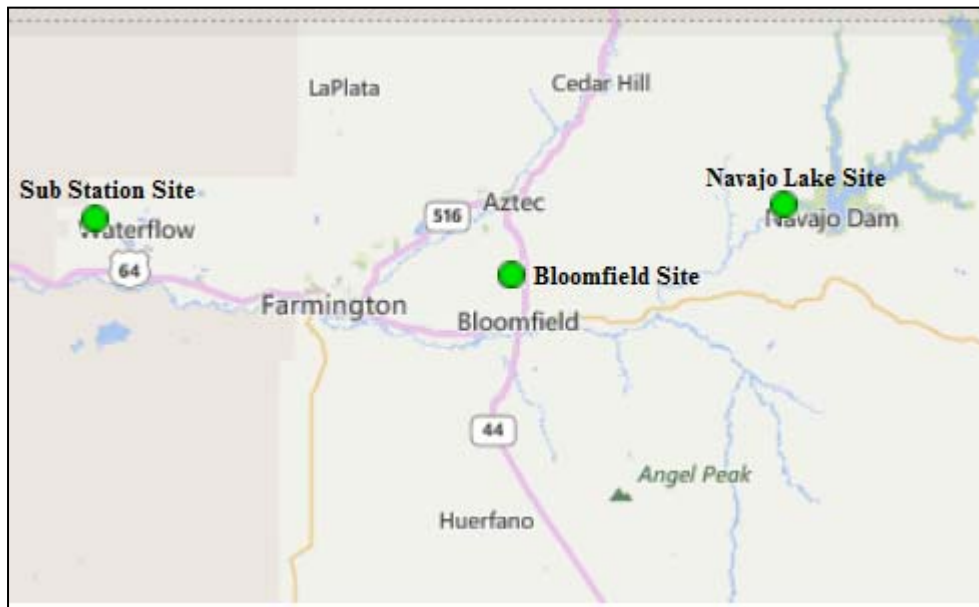


Figure 3

Substation Site AQS #: 35-045-1005:

Substation NO₂ Parameter 42602, Method 074, POC 2

The Bureau continues to operate the NO₂ monitor at the Substation air monitoring site. No changes occurred in 2018.

Bloomfield Site AQS #:35-045-0009:

Bloomfield NO₂ Parameter 42602, Method 074, POC 1

The Bureau continues to operate the NO₂ monitor at the Bloomfield air monitoring site. No changes occurred in 2018.

Navajo Lake Site AQS# 35-045-0018:

Navajo Lake NO₂ Parameter 42602, Method 074, POC 2

The Bureau continues to operate the NO₂ monitor at the Navajo Lake air monitoring site. No changes occurred in 2018.

Nitrogen Dioxide (NO₂) Air Quality Control Region 5 (EPA Region 155)

The Bureau operates two air monitoring sites in AQCR-5, located in Eddy County, and Lea County consisting of the Carlsbad and Hobbs sites. Figure 4 below indicates the location of the monitoring sites.

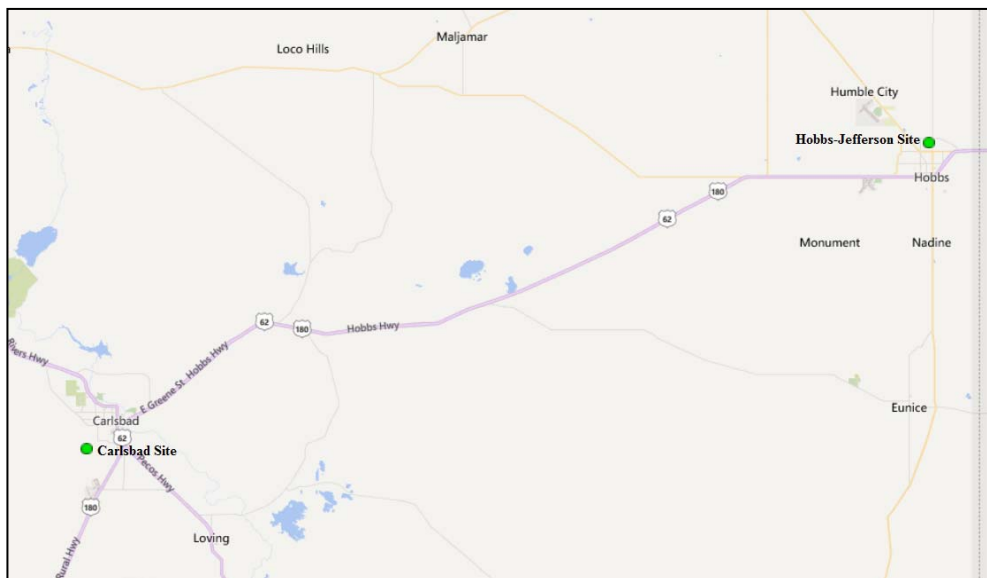


Figure 4

Carlsbad AQS #: 35-015-1005:

Carlsbad NO₂ Parameter 42602, Method 074, POC 1

The Bureau continues to operate the NO₂ monitor at the Carlsbad air monitoring site. No changes occurred in 2018.

Hobbs Jefferson AQS #: 35-025-0008:

Hobbs NO₂ Parameter 42602, Method 074, POC 2

The Bureau continues to operate the NO₂ monitor at the Hobbs air monitoring site. No changes occurred in 2018.

Air Quality Control Region 6 (EPA Region 153)

The Bureau operates nine air monitoring sites in AQCR-6, located in Doña Ana County. Two of the nine monitoring sites, Desert View and Santa Teresa monitor for NO₂. Figure 5 below indicates the location of the monitoring sites.

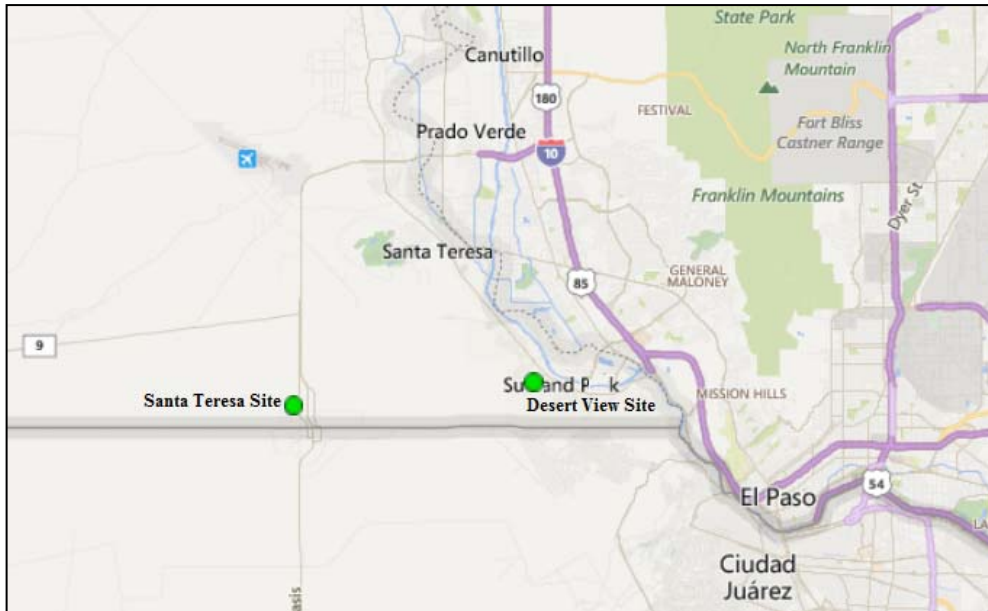


Figure 5

Desert View AQS #: 35-013-0021:

Desert View NO₂ Parameter 42602, Method 074, POC 2

The Bureau continues to operate the NO₂ monitor at the Desert View air monitoring site. No changes occurred in 2018.

Santa Teresa AQS #: 35-013-0022:

Santa Teresa NO₂ Parameter 42602, Method 074, POC 2

The Bureau continues to operate the NO₂ monitor at the Santa Teresa air monitoring site. No changes occurred in 2018.

2.2 Ozone (O₃)

The Bureau operates fourteen air monitoring sites in the network for Ozone, seven in northern New Mexico and seven in southern New Mexico. In the northern half of the state there are three sites in AQCR-1 which are located in San Juan County, two sites in AQCR-2, one being in Sandoval County and the second in Valencia County, and two sites in AQCR-3, one in Santa Fe County and the second in Rio Arriba County. In the southern half of the state, there are two sites in AQCR-5, one in Lea County and the second in Eddy County, and five sites in AQCR-6 which are located in Doña Ana County. Figure 6 below indicates the location of the northern monitoring sites and Figure 7 indicates the location of the southern monitoring sites.

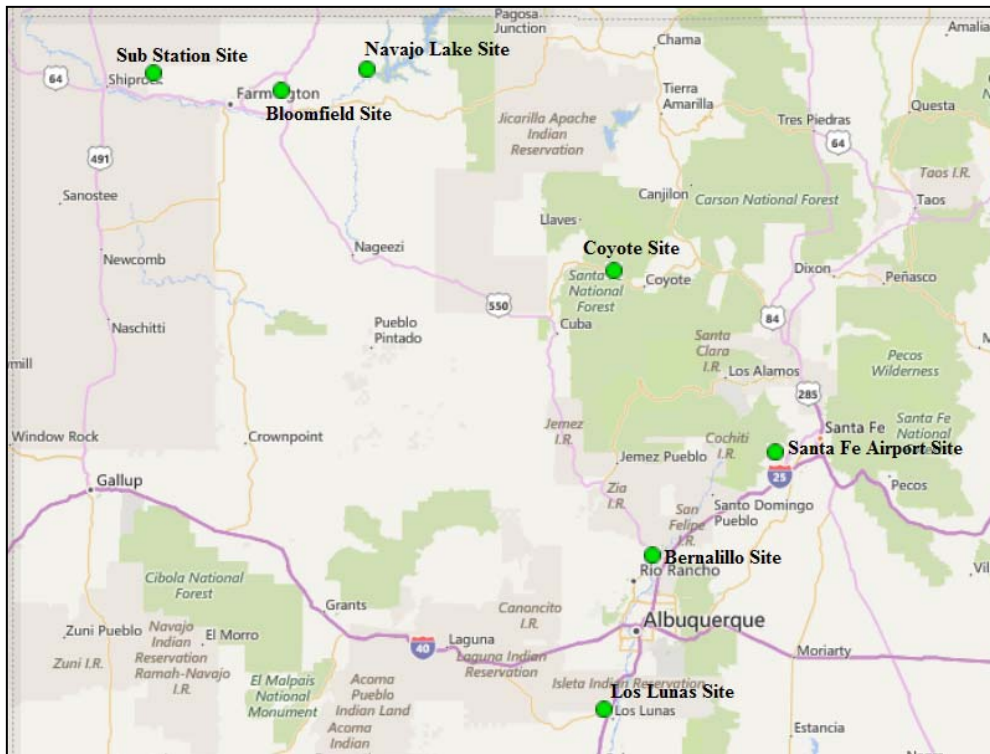


Figure 6



Figure 7

Ozone (O₃) Air Quality Control Region 1 (EPA Region 014)

The Bureau operates three air monitoring sites in AQCR-1 for Ozone which are located in San Juan County consisting of the Substation, Bloomfield, and Navajo Lake sites. Figure 8 indicates the location of the monitoring sites.



Figure 8

Substation Site AQS #: 35-045-1005:

Substation O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the O₃ monitor at the Substation air monitoring site. No changes occurred in 2018.

Bloomfield Site AQS #:35-045-0009:

Bloomfield O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the O₃ monitor at the Bloomfield air monitoring site. No changes occurred in 2018.

Navajo Lake Site AQS# 35-045-0018:

Navajo Lake O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the O₃ monitor at the Navajo Lake air monitoring site. No changes occurred 2018.

Ozone (O₃) Air Quality Control Region 2 (EPA Region 152)

The Bureau operates two ozone air monitoring sites in AQCR-2, one located in Sandoval County, and the second in Valencia County consisting of the Bernalillo and Los Lunas sites respectively. Figure 9 indicates the location of the Bernalillo and Los Lunas sites.

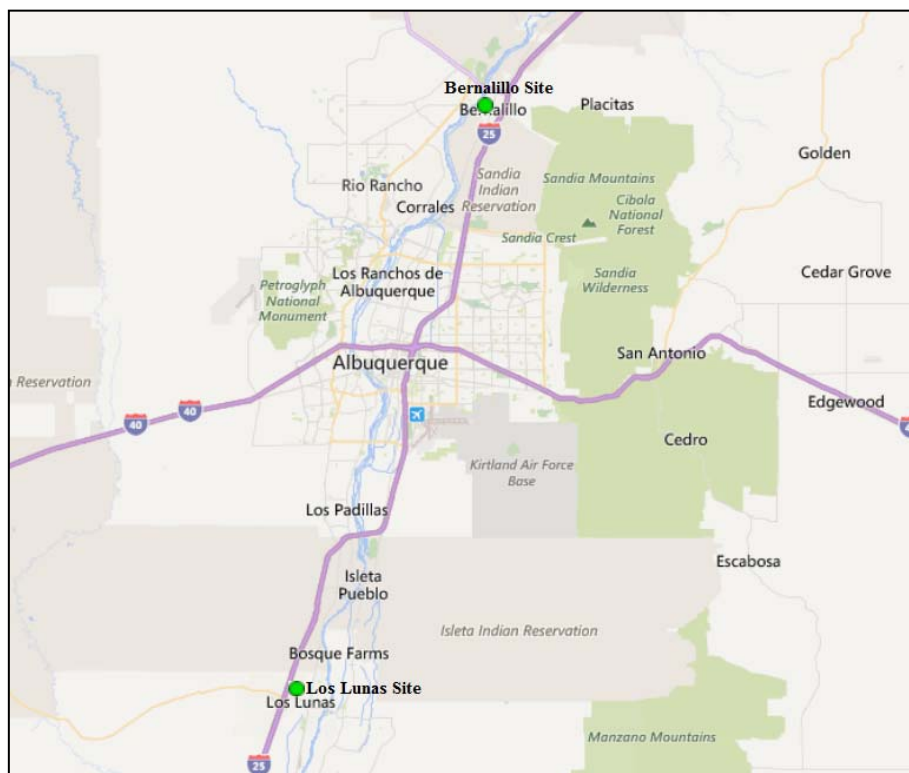


Figure 9

Bernalillo (DOT Yard) Site AQS#: 35-043-1001:

Bernalillo O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Bernalillo air monitoring site. EPA Region-VI has noted that this site is not required due to the City of Albuquerque (COA) currently operating more than the required Ozone sites for the Albuquerque MSA. However, NMED had requested to continue operating the O₃ monitor at Bernalillo and provided an explanation for continuing ozone monitoring in the Five-Year Network Assessment. NMED will continue collaborating with EPA Region-VI on appropriateness of continuing operating the Bernalillo site. No changes occurred in 2018.

Los Lunas AQS #: 35-061-0008:

Los Lunas O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Los Lunas air monitoring site. No changes occurred in 2018.

Ozone (O₃) Air Quality Control Region 3 (EPA Region 157)

The Bureau operates two ozone air monitoring sites in AQCR-3 located in Santa Fe County and Rio Arriba County consisting of the Santa Fe Airport and Coyote Ranger District sites. Figure 10 indicates the location of the two sites.



Figure 10

Santa Fe Airport AQS #: 35-049-0021:

Santa Fe Airport O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Santa Fe Airport air monitoring site. No changes occurred in 2018.

Coyote Ranger District AQS #: 35-039-0026:

Coyote Ranger District O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Coyote Ranger District air monitoring site. No changes occurred in 2018.

Ozone (O₃) Air Quality Control Region 5 (EPA Region 155)

The Bureau operates two ozone air monitoring sites in AQCR-5, located in Eddy County, and Lea County consisting of the Carlsbad and Hobbs sites. Figure 11 indicates the location of the two sites.

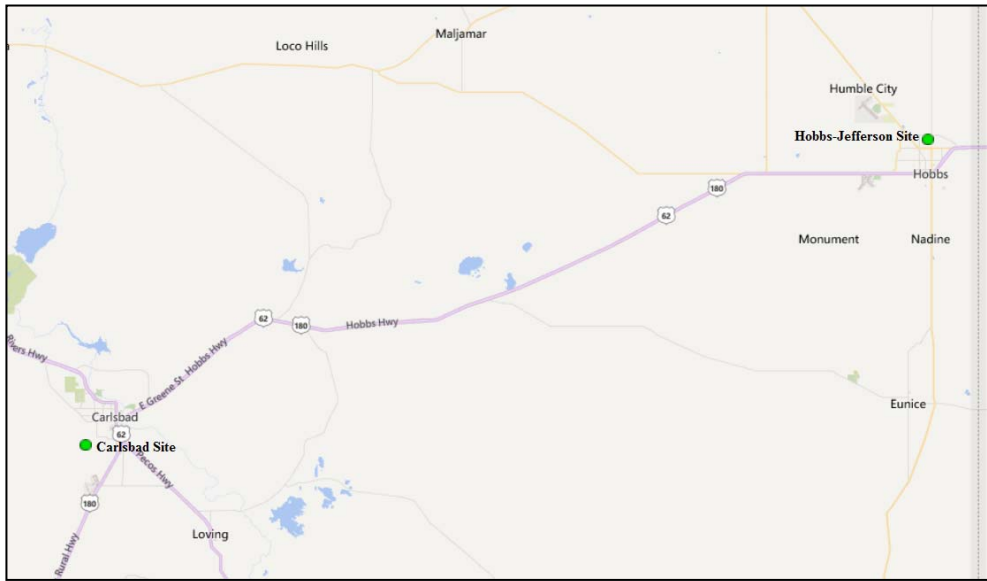


Figure 11

Carlsbad AQS #: 35-015-1005:

Carlsbad O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Carlsbad air monitoring site. No changes occurred in 2018.

Hobbs Jefferson AQS #: 35-025-0008:

Hobbs Jefferson O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Hobbs air monitoring site. No changes occurred in 2018.

Ozone (O₃) Air Quality Control Region 6 (EPA Region 153)

The Bureau operates a total of eight air monitoring sites in AQCR-6. Five of those sites monitor for ozone consisting of the Chaparral, Desert View, La Union, Santa Teresa, and Solano sites. Figure 12 indicates the location of the ozone monitoring sites.

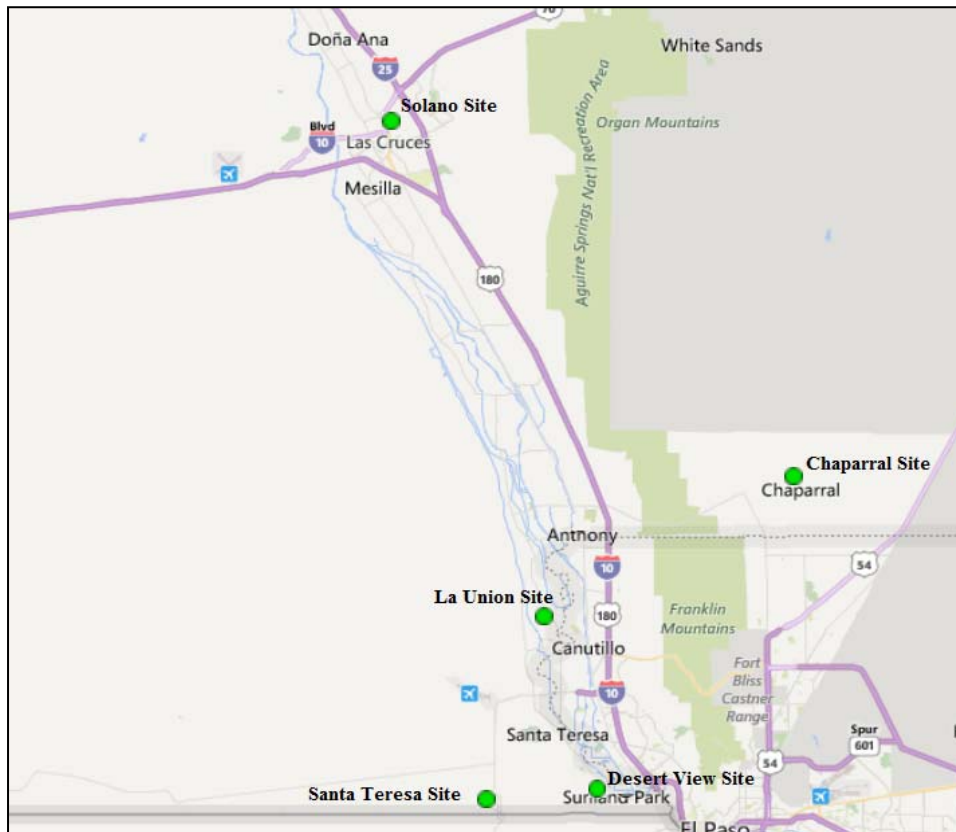


Figure 12

Chaparral AQS #: 35-013-0020:

Chaparral O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Chaparral air monitoring site. No changes occurred in 2018.

Desert View AQS #: 35-013-0021:

Desert View O₃ Parameter 44201, Method 047, POC 1

The Bureau continues to operate the Ozone monitor at the Desert View air monitoring site. No changes occurred in 2018.

La Union AQS #: 35-013-0008:

La Union O₃ Parameter 44201, Method 047, POC 2

The Bureau continues operating the Ozone monitor at La Union, no changes occurred in 2018.

Santa Teresa AQS #: 35-013-0022:

Santa Teresa O₃ Parameter 44201, Method 047, POC 1

The Santa Teresa site and surrounding area had been undergoing major commercial growth over the last several years due to the New Mexico Governor's economic development initiative for Santa Teresa as a commercial zone between Mexico and the US. The surrounding area has become more industrial due to the Union Pacific Railroad's Intermodal facility as well as freight storage and transport facilities. Recently growth in the area has leveled off, but expected to continue in the near future. NMED-AQB had requested to relocate the Santa Teresa site approximately a half mile east of

its present location due to siting and safety concerns from vehicular traffic, trespassing and loitering. However, these concerns within the vicinity of the Santa Teresa site have been relocated to the El Paso Border Crossing. Therefore, the Bureau has rescinded the relocation request. The Bureau continues to operate the Ozone monitor at Santa Teresa, no changes occurred in 2018.

Solano Road AQS #: 35-013-0023:

Solano Road O₃ Parameter 44201, Method 047, POC 1

The Bureau continues operating the Ozone monitor at Solano Road. NMED had concerns that nearby trees could possibly affect the siting criteria. The NMED QA section performed their annual siting criteria to verify site compliance. It was determined on March 8, 2018 that the site meets compliance criteria. No changes occurred in 2018.

2.3 Sulfur Dioxide (SO₂)

The Bureau operates two air monitoring sites in the network for Sulfur Dioxide. Both sites are located in the northern half of the state in AQCR-1 which is in San Juan County consisting of the Sub Station and Bloomfield air monitoring sites. Figure 13 below indicates the location of the SO₂ monitoring sites.



Figure 13

Sulfur Dioxide (SO₂) Air Quality Control Region 1 (EPA Region 014)

Substation SO₂ AQS #:35-045-1005

Substation SO₂ Parameter 42401, Method 060, POC 3

The Bureau continues to operate the SO₂ monitor at the Substation air monitoring site. No changes occurred in 2018.

Bloomfield SO₂ AQS #:35-045-0009

Bloomfield SO₂ Parameter 42401, Method 060, POC 3

The Bureau continues to operate the SO₂ monitor at the Bloomfield air monitoring site. No changes occurred in 2018.

2.4 Particulate Matter PM_{2.5} Non-Continuous Federal Reference Method (FRM)

The Bureau currently operates three Method 145 PM_{2.5} FRM Partisol samplers within the air monitoring network, all three are in Doña Ana County which is AQCR-6. The Desert View monitoring site is the designated co-location site for the FRM 145 samplers operating in the network. All three samplers operate on a one in every three-day schedule. Though technically the co-located Desert View site sampler operates on a one in every twelve-day schedule. AQB operates this sampler on a one in every three-day schedule due to power outages experienced in the past which caused the co-located sampler filter to be voided. Operating the co-located sampler on a one in every three-day schedule prevents sample loss. Figure 14 below indicates the location of the non-continuous FRM PM_{2.5} monitoring sites.

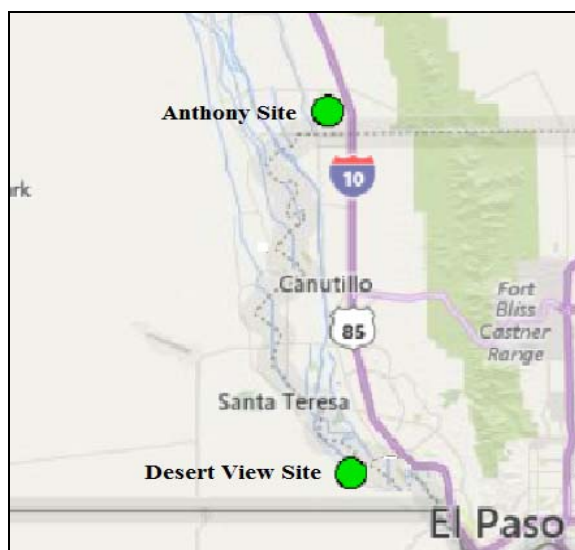


Figure 14

Particulate Matter PM_{2.5} (FRM) Air Quality Control Region 6 (EPA Region 153)

Desert View AQS #: 35-013-0021:

Desert View PM_{2.5} FRM (Primary) Parameter 88101, Method 145, POC 2

Desert View PM_{2.5} FRM (Co-Located) Parameter 88101, Method 145, POC 3

The Desert View site is designated as the bureau's co-location site using the Thermo 2025i series Partisol PM_{2.5} samplers. This site was chosen for co-location due to the area experiencing residential and commercial development nearby in Santa Teresa and on the Mexican side along the US/Mexican border which is just one mile south of the Desert View site. No changes occurred in 2018.

Anthony AQS#: 35-013-0016:

Anthony PM_{2.5} FRM Parameter 88101, Method 145, POC 2

The Bureau installed a co-located Partisol 2025i FRM PM_{2.5} sampler at the Anthony air monitoring site on May 23, 2017 with sampling starting on June 3, 2017. NMED has a BAM-1020 FEM PM_{2.5} operating at the site and added the Partisol sampler to meet requirements of 40 CFR Part 58 App. A.

2.5 Particulate Matter PM_{2.5} Continuous

2.5.1 Particulate Matter PM_{2.5} Continuous (TEOM)

NMED-AQB completed discontinuation and replacement of the aging TEOM PM_{2.5} samplers within the network. Method 170 BAM-1020 PM_{2.5} FEM samplers were installed per EPA approval letter dated December 7, 2016 referring to the bureau's Five-Year Network Assessment and 2016 Annual Network Plan technical comments. The last TEOM sampler was replaced in November 2017 with a BAM-1020 sampler at the Taos site. AQS has been updated to reflect the discontinuation of the TEOM and installation of the BAM sampler.

Particulate Matter PM_{2.5} Continuous Air Quality Control Region 3 (EPA Region 157)

Taos AQS #: 35-055-0005:

Taos PM_{2.5} Continuous Parameter 88502, Method 701, POC 3

The Bureau discontinued operating the TEOM PM_{2.5} sampler at the Taos air monitoring site per EPA approval letter date December 7, 2016 referring to NMED's 2015 Five-Year Network Assessment and 2016 Annual Network Plan. The sampler was replaced with a Method 170 BAM-1020 PM_{2.5} sampler Parameter 88101, Method 170, POC 1 on November 27, 2017. The last date of when data was submitted into AQS was November 27, 2017.

2.5.2 Particulate Matter PM_{2.5} Continuous (BAM-1020 Sampler)

The Bureau currently operates five Method 170 BAM-1020 PM_{2.5} samplers within the air monitoring network designated as SLAMS. Two of the five samplers are located in southern New Mexico's Doña Ana County at the Anthony and Las Cruces Office sites. The third is located in Lea County at the Hobbs monitoring sites. The remaining two samplers are located in northern New Mexico with the fourth at the Santa Fe Airport monitoring site and the fifth at the Taos monitoring site. A sixth BAM unit will be added to the monitoring network as the Bureau recently received approval for sampler installation at the Santa Teresa site per EPA letter dated April 2, 2018. Figure 15 indicates the location of the Santa Fe Airport and Taos monitoring sites and Figure 16 indicates the Anthony, Las Cruces Office and Hobbs monitoring sites.

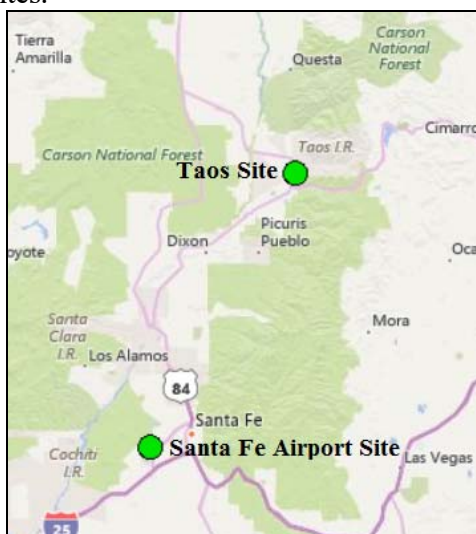


Figure 15

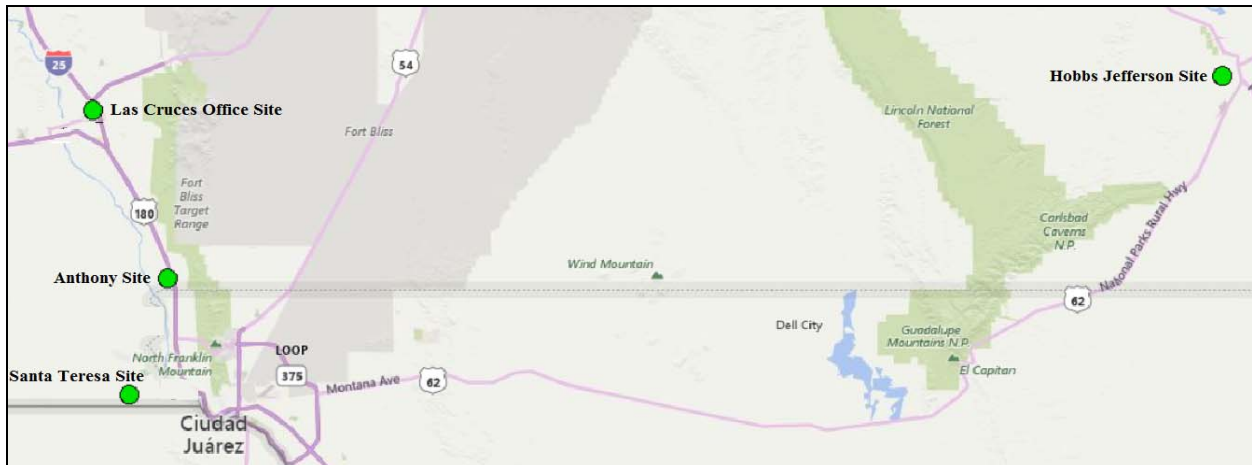


Figure 16

Air Quality Control Region 3 (EPA Region 157)

Santa Fe Airport AQS #: 35-049-0021:

Santa Fe Airport PM_{2.5} Continuous

Parameter 88101, Method 170, POC 1

The Bureau continues to operate the Met-One BAM-1020 PM_{2.5} sampler. No changes occurred in 2018.

Taos AQS #: 35-055-0005:

Taos PM_{2.5} Continuous

Parameter 88101, Method 170, POC 1

The Bureau installed a Met-One BAM-1020 PM_{2.5} sampler Parameter 88101, Method 170, POC1 on November 27, 2017. This BAM operates as a SLAMS sampler per EPA approval letter dated December 7, 2016 referring to NMED’s 2015 Five-Year Network Assessment and 2016 Annual Network Plan. This sampler replaced the aging TEOM PM_{2.5} sampler. Data collection in AQS started on December 4, 2017 after the required 72-hour back ground test. No additional changes are anticipated for 2018.

Air Quality Control Region 5 (EPA Region 155)

Hobbs Jefferson AQS#: 35-025-0008:

Hobbs Jefferson PM_{2.5} Continuous

Parameter 88101, Method 170, POC 1

The Bureau continues to operate the Met-One BAM-1020 PM_{2.5} sampler. No changes occurred in 2018.

Air Quality Control Region 6 (EPA Region 153)

Anthony AQS #: 35-013-0016:

Anthony PM_{2.5} Continuous

Parameter 88101, Method 170, POC 2

The Bureau continues to operate the Met-One BAM-1020 PM_{2.5} sampler. The Anthony site is the designated co-location site for the FEM Method 170 samplers operating in the network. No changes occurred in 2018.

Las Cruces Office AQS #: 35-013-0025:

Las Cruces PM_{2.5} Continuous

Parameter 88101, Method 170, POC 1

The Bureau continues to operate the Met-One BAM-1020 PM_{2.5} sampler and is the Bureau's Regional Transport particulate site. No changes occurred in 2018.

Santa Teresa AQS #: 35-013-0022:

Santa Teresa PM_{2.5} Continuous

Parameter 88101, Method 170, POC 1

The Bureau submitted a separate request to EPA Region 6 for the installation of a BAM-1020 PM_{2.5} continuous sampler which was approved on April 2, 2018. A previous request was made in AQB's 2014 ANR, but due to siting and safety concerns at that time it was not approved. Since then the area has improved significantly and siting issues resolved. AQB anticipates the installation and operation of the sampler by the end of the current 2018 fiscal year.

2.6 Particulate Matter PM₁₀ Non-Continuous Federal Reference Method (FRM)

The Bureau operates one non-continuous Thermo Partisol 2025i FRM sampler in the monitoring network as the primary for PM₁₀ particulate matter. The sampler meets the EPA requirement set forth in 40CFR Part58 Appendix D based on population category and concentration of particulate matter 10 microns or less in aerodynamic diameter (PM₁₀). This sampler is currently located at the Anthony air monitoring site which also contains a Met-One BAM-1020 PM₁₀ continuous sampler as the assigned co-located sampler for the PM₁₀ FRM sampler per EPA requirements.

Air Quality Control Region 6 (EPA Region 153)

Anthony PM₁₀ FRM

Parameter 81102, Method 127, POC 1

The Bureau continues to operate the Partisol 2025i non-continuous sampler as the designated primary sampler for PM₁₀ particulate matter. Figure 17 indicates the location of the PM₁₀ monitoring site.

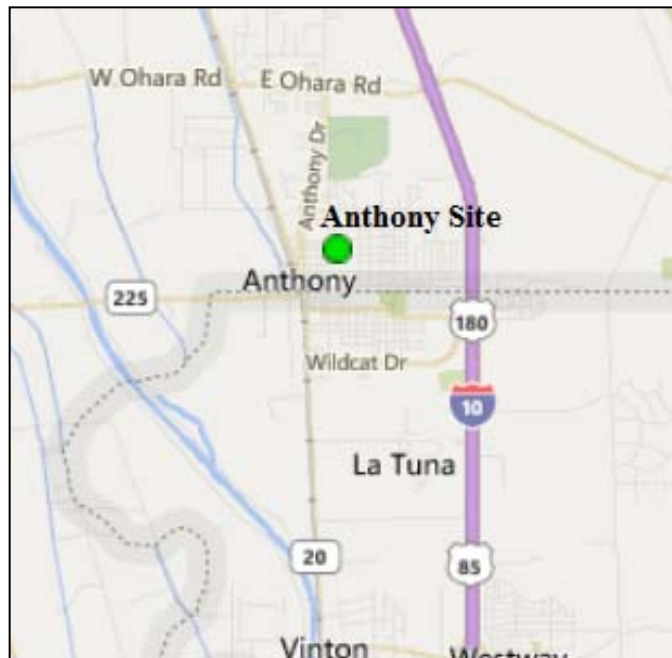


Figure 17

2.7 Particulate Matter PM₁₀ Continuous (BAM Sampler)

The Bureau operates seven Method 122 BAM-1020 PM₁₀ continuous samplers throughout the monitoring network. One of the seven BAM-1020 PM₁₀ samplers is operating as a Special Purpose Monitor (SPM) in the northern monitoring network which was recently relocated from the 1ZB Bloomfield site to the 1H Sub Station site. Figure 18 indicates the location of the northern New Mexico monitoring site. Six BAM-1020 PM₁₀ continuous samplers are located and operating in the Bureau's southern network as SLAMS monitors. Figure 18 indicates the locations of where the BAM-1020 PM₁₀ samplers in the southern network.

PM₁₀ Air Quality Control Region 1 (EPA Region 014)

Sub Station Site AQS #:35-045-1005:

Sub Station PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau operates a Met-One BAM-1020 FEM PM₁₀ sampler as a Special Purpose Monitor (SPM) to obtain representative sampling of PM₁₀ for San Juan County per approval of EPA letter, dated April 14, 2015 referring to NMED's 2014 Annual Ambient Air Monitoring Network Plan technical comments. The sampler was originally installed on May 5, 2016 and data input into AQS started July 30, 2016 at the 1ZB Bloomfield monitoring site. However, EPA expressed concerns during the Technical Services Audit (TSA) conducted in September 2016 with regards to nearby sand and asphalt piles that could potentially induce bias PM₁₀ data. NMED in collaboration with EPA Region-VI relocated the PM₁₀ sampler to the 1H Sub Station site on November 20, 2017. Data input into AQS started on December 1, 2017 after the manufacturers' recommended warm-up period and 72-hour background test.

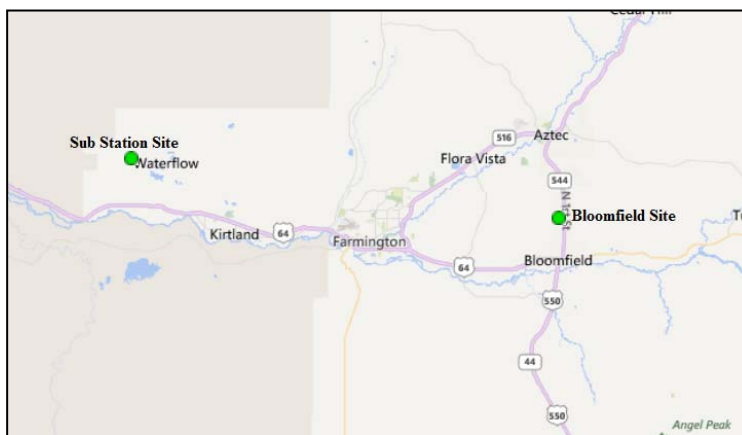


Figure18

PM₁₀ Air Quality Control Region 6 (EPA Region 153)

Anthony AQS #: 35-013-0016:

Anthony PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

Chaparral AQS #: 35-013-0020:

Chaparral PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

Desert View AQS #: 35-013-0021:

Desert View PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

Holman Road AQS #: 35-013-0019:

Desert View PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

West Mesa AQS #: 35-013-0024:

West Mesa PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

PM₁₀ Air Quality Control Region 7 (EPA Region 012)

Deming Airport AQS #: 35-029-0003:

Deming Airport PM₁₀ Continuous

Parameter 81102, Method 122, POC 2

The Bureau continues to operate the Met-One BAM-1020 FEM PM₁₀ continuous sampler. No changes occurred in 2018.

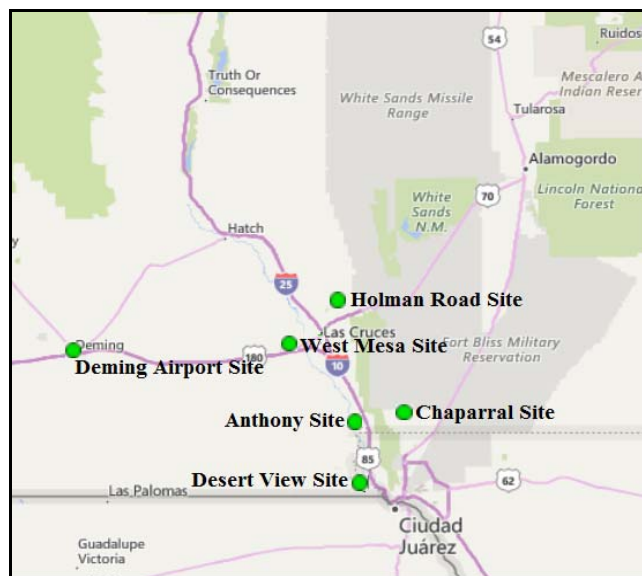


Figure 19

3.0 Other Projects

There are three other projects continuing in New Mexico and are supported by NMED/AQB staff.

1. Northern air monitoring staff continue with the NADP-sponsored project to collect passive ammonia monitoring data in San Juan County, New Mexico. This project will continue as long as federal funds are available. Ammonia is a precursor of fine particulate matter which adversely affects public health and visibility. This continued study will augment the baseline data collected in 2007 to assess any significant changes in ambient ammonia levels.
2. Using FY17 Border Grant funds, NMED is collecting micro-inventory of potential fugitive dust sources, including the identification of best available control measures (BACM) in order to develop a dust mitigation plan for PM₁₀ in Doña Ana and Luna counties.
3. NMED's northern air monitoring staff is also continuing with the Passive Mercury study started in August 2017. Sampling is being conducted at NMED's monitoring sites in the four corners area consisting of the (1NL) Navajo Lake, Farmington Regional Airport and (1H) Sub Station air monitoring sites. This two-year study is expected to end August 2019.

4.0 Summary

The intention of the Bureau is to continue to focus on pollutants of concern while also striving to continue to serve the public health needs and to satisfy the expectations of the New Mexico communities. The Bureau will inform Region VI staff early in the process of any plans to make changes or modifications to the ambient air monitoring network, other than those described in this review, to ensure that state and federal priorities continue to be aligned.

4.1 Network Modifications During FY2018

During Fiscal Year 2018 which occurred from July 1, 2017 through June 30, 2018 the Bureau had only two minor changes throughout the monitoring network by discontinuing and replacing aging/obsolete monitoring equipment, or relocating monitoring equipment. Changes occurred at two monitoring sites which consisted of the following with the modification listed below.

AQCR-1

Bloomfield PM₁₀ AQS #:35-045-0009

NMED discontinued operating the BAM-1020 PM₁₀ Federal Equivalent Method (FEM) particulate sampler on November 20, 2017. This was due to EPA concerns of the nearby sand and asphalt piles that could have potentially caused bias in PM₁₀ data. The sampler was relocated to the 1H Sub Station site on November 20, 2017.

AQCR-1

Sub Station PM₁₀ AQS#: 35-045-1005

NMED installed the BAM-1020 PM₁₀ Federal Equivalent Method (FEM) particulate sampler as a Special Purpose Monitor that was originally located at the Bloomfield air monitoring site. Data input

into AQS started on December 1, 2017 after the manufacturer recommended warm-up period and 72-hour background test.

Taos AQS #: 35-055-0005

NMED installed a BAM-1020 PM_{2.5} Federal Equivalent Method (FEM) particulate sampler parameter 88101, Method 170, POC 1 in November 2017. This sampler replaced the aging Method 701, TEOM PM_{2.5} sampler.

4.2 Pending System Modifications During FY2018

During Fiscal Year 2018 NMED has been in the process of retrofitting all 18 meteorological towers in the monitoring network with a manual winch controlled retractable boom. This will allow for one-person operation when conducting required audits and or maintenance/repair work on the meteorological sensors, and provide for additional safety as it will not require physically lowering and raising the meteorological tower. Additionally, the current Air Pollution Instruments (API) model T-700 Multi-Gas Calibrators will be replaced with Thermo Environmental Instruments (TEI) model 146i Multi-Gas Calibrators at the 14 air monitoring sites that contain or require calibration units. Other anticipated network modifications to occur in FY2018 are listed below:

AQCR-2

Bernalillo (DOT Yard) Site AQS#: 35-043-1001

NMED continues discussion with EPA to install a Met One BAM-1020 PM_{2.5} sampler due to the Bureau receiving numerous complaints from citizens in the nearby Village of Placitas housing community which is adjacent to four aggregate facilities. These citizens' complaints concern the continued residential and commercial growth, as well as increased vehicular traffic along the I-25 and NM-550 Highway corridor.

AQCR-6

Santa Teresa (Santa Teresa Border Crossing) AQS#: 35-013-0022

NMED-AQB is requested the installation of a BAM-1020 PM_{2.5} FEM sampler at the Santa Teresa air monitoring site, AQS number 35-013-0022 in Santa Teresa, NM. NMED-AQB had originally requested installation of the sampler in the 2014 ANR. However, due to AQB concerns with surrounding area not meeting siting criteria at the time and safety concerns for AQB personnel it was not approved by EPA Region-6. Additionally, AQB was also considering relocating the Santa Teresa site for these concerns. However, since then security in the area has improved significantly as civilian vehicular traffic has been diverted to the El Paso border crossing. The annual siting criteria report indicates that the site meets the criteria set forth in 40CFR58 Appendix E. NMED-AQB recently received approval for sampler installation at the Santa Teresa site per EPA letter dated April 2, 2018.

5.0 Addressing New Monitoring Requirements in Monitoring Network

5.1 Lead (Pb)

Two federal criteria have been set up for Pb monitoring:

- Source-oriented – For sources over 0.5 Tons per year.
- “Non-source”-oriented in every urban area with NCore monitoring sites, that have a population of 500,000 or more.

Based on these criteria, no Pb monitors are required in regions under NMED/AQB jurisdiction.

5.2 Nitrogen Dioxide

Two federal criteria have been set up for NO₂ monitoring:

- Near-road NO₂ monitoring; 1 micro-scale site would be required in Core Based Statistical Areas (CBSA) \geq 1 million in population at a location of expected highest hourly NO₂ concentrations sited near a major road with high Annual Average Daily Traffic (AADT) counts.
- Community-wide; required in CBSAs \geq 1 million in population at a location of expected highest NO₂ concentrations representing neighborhood or larger (urban) spatial scale.

Based on these criteria, no new NO₂ monitors are required in the state’s air quality control regions under NMED/AQB jurisdiction.

5.3 Sulfur Dioxide

Two federal criteria have been set up for SO₂ monitoring:

- Based on population per CBSA and amount of SO₂ emissions within that CBSA, that is, the Population Weighed Emissions Index (PWEI) and
- Based on individual state contribution to national SO₂ inventory in the 2005 National Emissions Inventory (NEI).

Based on the PWEI criteria, NMED/AQB would not need to deploy any new monitors. Based on the 2005 NEI criteria, NMED/AQB would need one monitor. This requirement is already being complied with by virtue of the Substation site.

SO₂ Data Requirements Rule

Per EPA Requirement that by July 1, 2016, each air agency was required to identify, for each source area on the list, the approach it will use to characterize air quality to help characterize sources listed as 2,000 tpy or larger, air agencies were to indicate by July 1, 2016 one of the three options to use which were:

Option 1: Ambient air monitoring for a source

Option 2: Air quality modeling for a source

Option 3: Federally enforceable emissions limits applicable to sources less than 2,000 tpy

NMED chose the second option, but this requires operating both SO₂ monitors in the network (1H Sub Station site and the 1ZB Bloomfield site) in order to provide data for modeling. The most recent report shows that our only source of concern, the San Juan Generating Station, has reduced its SO₂ emissions each year and that 2016 and 2017 are under the modeled years' emissions in all categories (average hourly, max hourly, annual tons, and 99th percentile hourly max). The report includes a back trajectory for the one day in which the monitor near the site experienced greater than 75 ppb. Overall, NMED is recommending that no new modeling should be required, since emissions are lower and two of the four units are now shut down permanently. Due to the shut-down of the two boiler units in December 2017, NMED anticipates that the two SO₂ monitors in San Juan county can be discontinued within two or three years.

5.4 Ozone

During FY2018, several New Mexico ozone monitoring sites exceeded the 8-hour standard. This is mostly due to hot and dry conditions exhibited during the summer months, typically June through mid-September in which a majority of exceedances occurred. However, based on EPA's 3-year design values, New Mexico meets the NAAQS for ozone with the exception of Las Cruces. Although the exceedance did not encompass all of Las Cruces, rather only the City of Sunland Park which is along the US/Mexican border.

Region 6 8-hr Ozone Exceedance Day Update										
	preliminary data	(through November 1, 2017)								
		Applicable Standard = 70 ppb								
State/Cities	8-hour Ozone Year to Date Exceedance Days	Max. exceedance levels April 1st - September 30						Year to Date Air Quality Index Category Totals		
		F	S	S	M	T	W	R	# Unhealthy for Sensitive Groups	# Unhealthy
New Mexico	# > 70 ppb									
Albuquerque	4							4		
San Juan Co.	5							5		
Southern Dona Ana Co.	23							22	1	
Carlsbad/Hobbs	12							12		

Notes: 71 - 85 ppb = Unhealthy for Sensitive Groups; 86 - 105 ppb = Unhealthy; >= 106 ppb = Very Unhealthy (based on applicable 70 ppb standard)

Current EPA 3-Year Ozone Design Values 2014 through 2016

State Name	County Name	State FIPS	County FIPS	EPA Region	AQS Site ID	2014-2016 Design Value (ppm) ^{1,2}	Meets NAAQS?	CBSA Name
New Mexico	Bernalillo	35	001	6	350010023	0.065	Yes	Albuquerque, NM
New Mexico	Dona Ana	35	013	6	350130021	0.072	No	Las Cruces, NM
New Mexico	Eddy	35	015	6	350151005	0.067	Yes	Carlsbad-Artesia, NM
New Mexico	Lea	35	025	6	350250008	0.066	Yes	Hobbs, NM
New Mexico	Rio Arriba	35	039	6	350390026	0.064	Yes	Espanola, NM
New Mexico	Sandoval	35	043	6	350431001	0.064	Yes	Albuquerque, NM
New Mexico	San Juan	35	045	6	350450018	0.066	Yes	Farmington, NM
New Mexico	Santa Fe	35	049	6	350490021	0.063	Yes	Santa Fe, NM
New Mexico	Valencia	35	061	6	350610008	0.064	Yes	Albuquerque, NM

The 2008 O₃ NAAQS Good Neighbor SIP and 2015 O₃ NAAQS infrastructure SIP are both due to EPA by October 1, 2018. NMED is not proposing to adopt any additional control measures, we will provide certifications that our current SIP is sufficient to implement and enforce the NAAQS.

NMED's Planning section has begun to develop control measures for areas that are within 95% of the NAAQS.

6.0 Other Issues

At present all NMED-AQB Monitoring Section positions are filled. However, we recently received notice of resignation from the monitoring section's northern Environmental Scientist Specialist – Supervisor which will be filled before the end of the year. Additionally, an Environmental Scientist-Specialist – Advanced (ESS-A) position in the monitoring section as well, will become vacant during the current calendar year due to attrition.

A draft of this document was made available to the public June 1 through June 30, 2018 which was posted on our web page at <http://www.env.nm.gov/air-quality/>. No comments pertaining to this document were received from the public during the posting time frame.

Roman Szkoda
Monitoring Program Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505

roman.szkoda@state.nm.us

TABLE 1
New Mexico Monitoring Network in 2018

Site ID	Site Name	Station Type	Site Address	Latitude	Longitude	Reference Elevation	Analysis Method	Operating Schedule	Is the proposal to be implemented within next 18 months?	Monitoring Objective	NAAQS Compliance?	and the management	Special State
25401005	HHS Station	SLAMS	Shiprock Medical Substation, Window, NM 87421	36°27'N	-106°03'W		UV Fluorescence	Continuous	No	General Background	Yes	Penetration/MSA	Regional
		SLAMS					Condensation	Continuous		General Background	Yes	Penetration/MSA	Regional
		SLAMS					Filter Backup	Continuous		Source Oriented	Yes	Penetration/MSA	Regional
		SPM					Continuous (SAM-HD)	Continuous		General Background	Yes	Penetration/MSA	Regional
25401009	LEB/Bowfield	SLAMS	2300 N 1st Street, Bowfield, NM 87413	36°42'N	-107°57'W		UV Fluorescence	Continuous	No	General Background	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		General Background	Yes	Penetration/MSA	Metropolitan
		SLAMS					Filter Backup	Continuous		Source Oriented	Yes	Penetration/MSA	Metropolitan
25401018	NSL Vernal Lake	SLAMS	423A Highway 52N, Vernal Lake, NM 87410	36°07'N	-107°51'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
25401008	21 East Lane	SLAMS	1000 W. Main St., East Lane, NM 87401	34°17'N	-106°31'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
25401001	222 Broadway	SLAMS	400 Oak Street, Broadway, NM 87004	34°29'N	-106°57'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
25401016	26700 Crown Ridge Drive	SLAMS	21 New Mexico, Crown, NM 87012	36°18'N	-106°08'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
25401001	287A State Parkway	SLAMS	2001 Avenida De. Santa Fe, NM 87507	35°10'N	-106°07'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Source Oriented	Yes	Penetration/MSA	Metropolitan
25401005	320 Yaw	SLAMS	123 Cornudas, Sanguero Ave. Santa Yewa, NM 87571	36°33'N	-105°58'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
25401005	528 Cordoba	SLAMS	2011 Hobart St., Cordoba, NM 88220	32°38'N	-104°56'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
25401008	527 Hobbs Highway	SLAMS	223 N. Adams St., Hobbs, NM 88249	32°28'N	-101°12'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
25401016	624 Anthony	SLAMS	707 Church St., Anthony, NM 88001	32°03'N	-106°29'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Filter Backup	Continuous		Source Oriented	Yes	Penetration/MSA	Metropolitan
		SLAMS					Continuous (SAM-HD)	Continuous		General Background	Yes	Penetration/MSA	Metropolitan
		SLAMS					Continuous (SAM-HD)	Continuous		General Background	Yes	Penetration/MSA	Metropolitan
25401008	401 La Union	SLAMS	704A Highway La Union, NM 88001	31°18'N	-106°51'W		UV Fluorescence	Continuous	No	General Background	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		General Background	Yes	Penetration/MSA	Urban
25401004	6784 N. Wilson	SLAMS	West Main, West Park, Las Cruces, NM 89045	32°27'N	-106°50'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Urban
25401001	624 Chapman	SLAMS	609 M. Cooke, Chapman, NM 89901	32°14'N	-106°07'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Urban
25401001	620 OverView	SLAMS	605A Vah. Vasa, Seward Park, NM 89003	31°26'N	-106°35'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Metropolitan
		SLAMS					Filter Backup	Continuous		Source Oriented	Yes	Penetration/MSA	Metropolitan
		SLAMS					Continuous (SAM-HD)	Continuous		General Background	Yes	Penetration/MSA	Metropolitan
25401002	622 Shaw Town	SLAMS	1042 Shaw Town, Shaw Town, NM 89063	31°28'N	-106°26'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Urban
25401003	622 Shaw Town	SLAMS	709 N. Shaw Town, Las Cruces, NM 89001	32°18'N	-106°27'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Urban
25401005	622 Shaw Town	SLAMS	2001 East 4th St., Las Cruces, NM 89001	32°18'N	-106°27'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Urban
		SLAMS					Condensation	Continuous		Regional Transport	Yes	Penetration/MSA	Urban
25401003	7E. Dennis Airport	SLAMS	2412 Dennis Road, Dennis, NM 89004	32°33'N	-107°22'W		UV Fluorescence	Continuous	No	Regional Transport	Yes	Penetration/MSA	Metropolitan

ALL NMED monitoring stations are located within 500 feet of the station location. C, Part 38 Appendix A