

**Oklahoma Department of Environmental Quality  
Air Quality Division  
2018  
Air Monitoring Network Plan**



Oklahoma Department of Environmental Quality  
707 N. Robinson  
P.O. Box 1677  
Oklahoma City, OK 73101-1677

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## **Introduction**

This report documents the annual review of the air monitoring network operated by the Oklahoma Department of Environmental Quality's Air Quality Division (AQD). When finalized as the Annual Monitoring Network Plan, it will be submitted by July 1, 2018 to the U.S. Environmental Protection Agency (EPA) as required by 40 CFR 58.10 and provide the framework for establishing and maintaining Oklahoma's air quality surveillance system. AQD uses data collected by this network for comparison to the National Ambient Air Quality Standards (NAAQS). AQD maintains its ambient air monitoring network in accordance with the quality assurance requirements of 40 CFR Part 58, Appendix A; performs within specifications in accordance with 40 CFR Part 58, Appendix B; follows procedure outlined within 40 CFR Part 58, Appendix C; designs its network in accordance with 40 CFR Part 58, Appendix D; and locates its sites to meet all requirements of 40 CFR Part 58, Appendix E.

Below is a summary of changes that have been approved by Region 6 EPA, and implemented since the last Annual Network Plan:

- Relocation of 40-019-0297 Ozone to 40-085-0300.
- Relocation of 40-147-0217 Ozone and PM 2.5 to 40-105-0207.
- Discontinuation of 40-017-0101 NO<sub>2</sub>.
- Discontinuation of 40-051-0065 NO<sub>2</sub>.
- PM 2.5 method code changes from Sequential FRM/Micro-gravimetric filter weighing (145) to Broadband Spectroscopy (236) at 40-109-0097.

Table 1 is a list of all currently existing ambient air monitoring sites that AQD operates and maintains as of May 1, 2018. Table 2 is a list of proposed changes. "Air Quality System (AQS) Site ID#" in column one is a unique identification number assigned to each monitoring site in the state network. AQS is a national air monitoring database maintained by the EPA.

## **Contact Information**

### **East Region Manager**

Name: Curt Goeller  
Phone: (405)702-4126  
Email: [Curt.Goeller@deq.ok.gov](mailto:Curt.Goeller@deq.ok.gov)

### **West Region Manager**

Name: Kent Stafford  
Phone: (405)702-4139  
Email: [Kent.Stafford@deq.ok.gov](mailto:Kent.Stafford@deq.ok.gov)

**Table 1. Air Monitoring Site Information:**

AQS Site #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling/ Analysis Method/ Method #	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA/ CBSA *****
40-027-0049	S.E. 19th St., Moore Water Tower, Moore	35.320105	-97.484099	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC MSA ****
				PM 2.5	Broadband Spectroscopy	SPM*	Continuous	Population Exposure	Urban	Yes	
				PM 10	Broadband Spectroscopy	SPM*	Continuous	Population Exposure	Urban	No	
40-019-0297	Memorial Dr., Healdton City Lake	34.244189	-97.462931	PM 2.5	Beta Attenuation	SPM*	Continuous	Regional Transport	Regional	Yes	Ardmore CBSA
40-031-0651	2211 NW 25 <sup>th</sup> , Lawton	34.632980	-98.428790	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	Lawton MSA
				PM 2.5	Beta Attenuation	SPM*	Continuous	Population Exposure	Urban	Yes	
40-043-0860	Seiling Municipal Airport, Seiling	36.158414	-98.931973	Ozone	U.V. Absorption	SLAMS	Continuous	General Background	Regional	Yes	Not in MSA/ CBSA
				PM 2.5	Broadband Spectroscopy	SPM*	Continuous	General Background	Regional	Yes	
				PM 10	Broadband Spectroscopy	SPM*	Continuous	General Background	Regional	No	
40-087-1073	310 E. Burr Oak Rd., Goldsby	35.159649	-97.473794	Ozone	U.V. Absorption	SLAMS	Continuous	Upwind Background/ General Background	Regional	Yes	OKC MSA
40-071-0604	306 E Otoe, Ponca City	36.697186	-97.081350	SO2**	UV Fluorescence	SLAMS	Continuous	Population Exposure/ Source Oriented	Neighborhood	Yes	Ponca City CBSA
				PM 2.5	Beta Attenuation	SLAMS	Continuous	Population Exposure	Neighborhood	Yes	

40-101-0167	3500 Port Place, Muskogee	35.793134	-95.302235	PM 10	TEOM Gravimetric	SLAMS	Continuous	Source Oriented	Middle	Yes	Muskogee CBSA
40-017-0101	12575 NW 10 <sup>th</sup> , Water Tower, Yukon	35.479215	-97.751503	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC MSA
40-109-0096	12880A N.E. 10th, Choctaw	35.477801	-97.303044	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC MSA
40-109-0033	N.E. 10th and Stonewall, OKC	35.477036	-97.494309	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC MSA
				NO2	Gas Phase Chemiluminescence	SLAMS	Continuous	Population Exposure/ Area-wide/ Vulnerable and Susceptible Population	Urban	Yes	
40-109-0035	N.W. 5th and Shartel, OKC	35.472920	-97.527090	PM 2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Neighborhood	Yes	OKC MSA
				PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 6)	Population Exposure	Neighborhood	Yes	
				PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 6) Collocated	Quality Assurance	Neighborhood	Yes	
				PM 10-PM 2.5	Paired Gravimetric	SPM	(1 in 6)	Population Exposure	Neighborhood	Yes	

40-109-1037	2501 E. Memorial Rd., Oklahoma Christian University, OKC	35.614131	-97.475083	SO2**	U.V. Fluorescence	SLAMS	Continuous	Population Exposure	Urban	Yes	OKC MSA
				Chemical Speciation	Low Volume Gravimetric/ Micro-gravimetric filter weighing	SLAMS	(1 in 6)	Population Exposure	Urban	No	
				PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 6)	Population Exposure	Urban	Yes	
				PM 10	TEOM Gravimetric	SPM	Continuous	Population Exposure	Urban	No	
				PM 2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Urban	Yes	
				PM 2.5	Broadband Spectroscopy	SLAMS	Continuous	Population Exposure	Urban	Yes	
				PM 10	Broadband Spectroscopy	SPM*	Continuous	Population Exposure	Urban	No	
				PM 10-PM 2.5	Paired Gravimetric	SPM	(1 in 6)	Population Exposure	Urban	No	
				CO	Gas Filter Correlation	SLAMS	Continuous	Population Exposure	Urban	Yes	
				Ozone	U.V. Absorption	SLAMS	Continuous	Highest Concentration	Urban	Yes	
40-121-0415	104 Airport Rd., McAlester Municipal Airport, McAlester	34.885608	-95.784410	Ozone	U.V. Absorption	SLAMS	Continuous	Regional Transport	Regional	Yes	McAlester CBSA
				PM 2.5	Beta Attenuation	SLAMS	Continuous	General Background	Regional	Yes	
				PM 2.5	Sequential FRM/ Micro-gravimetric Filter Weighing	SLAMS	(1 in 6) Collocated	Quality Assurance	Regional	Yes	

40-039-0856	Rader Park, Weatherford	35.560280	-98.683490	PM 10	TEOM Gravimetric	SPM	Continuous	Population Exposure	Regional	Yes	Weatherford CBSA
40-121-0416	108 N Main St., Savanna	34.829396	-95.843642	Lead	Hi-Volume	SLAMS	(1 in 6)	Source Oriented	Neighborhood	Yes	McAlester CBSA
40-143-1127	3520 1/2 N. Peoria, North Tulsa-Fire Station #24, Tulsa	36.204902	-95.976537	Ozone	U.V. Absorption	NCore/SLAMS	Continuous	Maximum Precursor Emissions Impact	Urban	Yes	Tulsa MSA
				NO2	Chemiluminescence	NCore/SLAMS	Continuous	Maximum Precursor Emissions Impact/ Vulnerable and Susceptible Population	Urban	Yes	
				Trace level NOy	Chemiluminescence	NCore/SLAMS	Continuous	Maximum Precursor Emissions Impact	Urban	No	
				Trace level CO	Gas Filter Correlation	NCore/SLAMS	Continuous	Population Exposure	Urban	Yes	
				Trace level SO2**	U.V. Fluorescence	NCore/SLAMS	Continuous	Population Exposure	Urban	Yes	
				PM 2.5	Sequential FRM/ Micro-gravimetric filter weighing	NCore/SLAMS	(1 in 3)	Population Exposure	Urban	Yes	
				PM 2.5	Sequential FRM/ Micro-gravimetric filter weighing	NCore/SLAMS	(1 in 6) Collocated	Quality Assurance	Urban	Yes	
				PM 2.5	Broadband Spectroscopy	NCore/SPM*	Continuous	Population Exposure	Urban	Yes	

				PM 10	Broadband Spectroscopy	NCore/SPM*	Continuous	Population Exposure	Urban	No	Tulsa MSA
				PM 10	Sequential FRM/ Micro-gravimetric filter weighing	NCore/SLAMS	(1 in 3)	Population Exposure	Urban	Yes	
				PM 10 - PM 2.5	Paired Gravimetric	NCore/SPM	(1 in 3)	Population Exposure	Urban	No	
				Chemical Speciation	Low Volume Gravimetric/ Micro-gravimetric filter weighing	NCore/SLAMS	(1 in 3)	Population Exposure	Urban	No	
40-113-0226	1521 S. Lombard, Skiatook	36.355860	-96.012430	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	Tulsa MSA
40-037-0144	City Water Plant, Mannford	36.105481	-96.361196	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	Tulsa MSA
40-143-0174	502 E. 144th Pl., Tulsa South, Tulsa	35.953708	-96.004975	Ozone	U.V. Absorption	SLAMS	Continuous	Upwind Background	Urban	Yes	Tulsa MSA
				PM 2.5	Beta Attenuation	SPM*	Continuous	Population Exposure	Urban	Yes	Tulsa MSA
40-143-0178	18707 E. 21st St., Tulsa East, Tulsa	36.133802	-95.764537	Ozone	U.V. Absorption	SLAMS	Continuous	Population Exposure	Urban	Yes	Tulsa MSA
40-143-0175	1710 W. Charles Page Blvd. Tulsa	36.149877	-96.011664	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Tulsa MSA
40-037-0146	10375 N. Frankoma Rd., Sapulpa	36.013567	-96.099144	Lead	Hi-Volume	SLAMS	(1 in 6)	Source Oriented	Neighborhood	Yes	Tulsa MSA
				Lead	Hi-Volume	SLAMS	(1 in 12) Collocated	Quality Assurance	Neighborhood	Yes	



40-109-0097	3112 N. Grand BLVD, OKC	35.503070	-97.577981	NO2	Chemiluminescence	SLAMS	Continuous	Highest Concentration/ Near Road	Micro	Yes	OKC MSA
				PM 2.5	Broadband Spectroscopy	SLAMS	Continuous	Population Exposure	Micro	Yes	
				PM 10	Broadband Spectroscopy	SLAMS	Continuous	Population Exposure	Micro	No	
				CO	Gas Filter Correlation	SLAMS	Continuous	Population Exposure	Micro	Yes	
				Black Carbon	McGee Scientific TAPI M633 Aethalometer	SLAMS	Continuous	Population Exposure	Micro	No	
40-143-0179	124 N. Riverside Dr. West, Tulsa	36.154830	-96.015845	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Tulsa MSA
				H2S	U.V. Fluorescence	SPM ***	Continuous	Source Oriented	Neighborhood	No	Tulsa MSA
40-143-0235	2443 S. Jackson Ave., Tulsa	36.126945	-95.998941	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Middle	Yes	Tulsa MSA
				H2S	U.V. Fluorescence	SPM ***	Continuous	Source Oriented	Middle	No	
40-143-1110	445 S Jamestown Ave, Turner Park, Tulsa	36.154384	-95.937950	PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Neighborhood	Yes	Tulsa MSA
40-147-0207	OK 10 and US 169, Lenapah	36.918242	-95.632127	Ozone	U.V. Absorption	SPM	Continuous	Regional Transport	Regional	No	Bartlesville CBSA
				PM 2.5	Beta Attenuation	SPM*	Continuous	Regional Transport	Regional	No	
40-013-0380	814 Waldron Rd., Durant	33.945379	-96.405726	Ozone	U.V. Absorption	SPM	Continuous	Regional Transport	Regional	No	Durant CBSA

40-047-0555	11826 N 30th St, Kremlin	36.512363	-97.845959	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Enid CBSA
40-097-0188	470 13th St., MAIP, Pryor	36.228993	-95.269196	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Not in MSA/ CBSA
40-067-0671	Lake Waurika Corp. of Eng. Office, Waurika	34.226639	-98.035440	Ozone	U.V. Absorption	SPM	Continuous	Regional Transport	Regional	No	Not in MSA/ CBSA
40-101-0170	108 North 55th St. East, Fort Gibson	35.775813	-95.287067	SO2**	U.V. Fluorescence	SLAMS	Continuous	Source Oriented	Neighborhood	Yes	Muskogee CBSA

\*PM<sub>2.5</sub> SPM monitors are used to support the state Health Advisory Program and will remain SPMs.

\*\*AQS shows two SO<sub>2</sub> monitors due to reports being entered for both hourly and 5-minute data.

\*\*\*H<sub>2</sub>S SPMs are used to monitor major sources in the Tulsa area in response to the state implemented H<sub>2</sub>S ambient standard and will remain SPMs.

All AQD sites and monitors conform to 40 CFR, Subchapter C, Part 58 Appendix A, Appendix C (see methods in column 6 of table 2), and Appendices D & E (see photos located at <http://www.deq.state.ok.us/AQDnew/monitoring/cpdata.htm> by clicking on desired location of the site map).

\*\*\*\*Oklahoma City has been abbreviated to OKC for all tables,

\*\*\*\*\*Both Metropolitan Statistical Area and Core-Based Statistical Area have been abbreviated to MSA and CBSA respectively for all tables.

**Table 2. AQD Network Proposed Changes  
Monitors Recommended to be Removed and Discontinued:**

AQS Site #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling/ Analysis Method/ Method #	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-109-1037	2501 E. Memorial Rd., Oklahoma Christian University, OKC	35.614131	-97.475083	PM 10-PM 2.5	Paired Gravimetric	SPM	(1 in 6)	Population Exposure	Urban	No	OKC MSA
40-143-1110	445 S Jamestown Ave, Turner Park, Tulsa	36.154384	-95.937950	PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)	Population Exposure	Neighborhood	Yes	Tulsa MSA

- These monitors are not required to meet CFR requirements, and after review of the data they do not add value to the Oklahoma DEQ monitoring network.

**Monitor Operating Schedule Recommended to be Changed:**

AQS Site #	Address/ Location	Latitude	Longitude	Pollutants Measured	Sampling/ Analysis Method/ Method #	Station Type	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	MSA
40-109-0035	N.W. 5th and Shartel, OKC	35.472920	-97.527090	PM 2.5	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 3)*	Population Exposure	Neighborhood	Yes	OKC MSA
40-109-0035	N.W. 5th and Shartel, OKC	35.472920	-97.527090	PM 10	Sequential FRM/ Micro-gravimetric filter weighing	SLAMS	(1 in 6)** Collocated	Quality Assurance	Neighborhood	Yes	OKC MSA

\*Recommended to be changed to a (1 in 6) operation schedule. This change does not compromise data needed for NAAQS implementation. This monitor does not determine Design Value for Oklahoma City. This monitor was not within 10% of the annual limit for the last 3 years nor has it exceeded the 24 hour NAAQS limit over the last 3 years. See values for 40-109-0035 PM 2.5 along with other sites for comparison below.

2015			
Site	First Max	98 <sup>th</sup> percentile	Weighted Annual Mean
0035	15.4	15	6.5*
0097	29.6	18	9.1*
1037	27	17	7.7*
1037-3	27.9	18	8.1

2016			
Site	First Max	98 <sup>th</sup> percentile	Weighted Annual Mean
0035	28.2	17	7.6
0097	28	19	8.3*
1037	18	15	6.9*
1037-3	21.7	19	8.4*

2017			
Site	First Max	98 <sup>th</sup> percentile	Weighted Annual Mean
0035	16.2	13	7.4*
0097	14.3	14	8.4*
1037	13.6	12	6.6*
1037-3	22.3	18	8.7*

\*Does not satisfy minimum data completeness criteria

\*\*Recommended to be changed to a (1 in 12) operating schedule.

## Appendix A: Network Requirements

Parameter	Number of Sites Required in Part 58 App D	Reason(s) for Requirement Part 58 App D	Number of Other Non-Required SLAMS/SPM Sites Currently in Operation	Reason(s) for Optional Site	Total Sites Operated	Additional Monitors
Ozone	2	OKC MSA/Population	4		6	
	2	Tulsa CBSA/Population	2		4	
	1	Lawton CBSA			1	
	1	NCORE			1	
			3	Red River/SPM	3	
			1	Flint Hills /SPM	1	
			1	AQI/Advisories	2	
Total	6		11		17	
Carbon Monoxide	1	Near-road			1	
	1	NCORE			1	
			1	Background	1	
Total	2		1		3	
Nitrogen Dioxide	1	Near-road			1	
	1	NCORE			1	
	1	Area-wide			1	
Total	3				3	
NOy	1	NCORE			1	
Total	1				1	
Sulfur Dioxide	1	NCORE			1	
	1	Tulsa CBSA/PWEI			1	
	3	SO2 DRR			3	
			3	Major Source	3	
			1	OKC Area Background	1	
Total	5		4		9	

Parameter	Number of Sites Required in Part 58 App D	Reason for Requirement Part 58 App D	Number of Other Non-Required SLAMS/SPM Sites Currently in Operation	Reason for Optional Site	Total of All Sites Operated	Collocated Monitors
Lead	2	Sources > .5 tons/year			2	
Total	2				2	
PM2.5	2	OKC CBSA/Population/Low Conc.	1	AQI/Advisories	3	1
	1	Tulsa CBSA - Population/Low Conc./NCore	1	AQI/Advisories - NCore	2	1
			1	AQI/Advisories - Lawton	1	
			1	Flint Hills SPM	1	
			2	AQI/Advisories	2	
	1	Background			1	
	1	Transport			1	
	1	Near-road			1	
Total	6		6		12	2
PM10			1	Source	1	
			2	AQI/Advisories	2	
	2	OKC CBSA/Population/Low Conc.	1	AQI/Advisories	3	2
	1	Tulsa CBSA/Population/Low Conc.			1	
Total	3		4		7	2
PM10 - 2.5 (Coarse)	1	NCore			1	
			1	Supplemental	1	
Total	1		1		2	

## Appendix B: PWEI\* Numbers for Determination of Minimum SO<sub>2</sub> Sites

CBSA	Counties	SO <sub>2</sub> Emissions** (tons)	Total Emissions** (tons)	Population*** (people)	PWEI** (tons/million people)
Oklahoma City	Oklahoma County	433	879	138,3737	1,217
	Cleveland County	102			
	Canadian County	77			
	Grady County	74			
	Logan County	91			
	McClain County	24			
	Lincoln County	75			
Tulsa	Tulsa County	626	18,486	990,706	18,314
	Rogers County	17,166			
	Wagoner County	61			
	Creek County	351			
	Osage County	28			
	Okmulgee County	150			
	Pawnee County	102			
Lawton	Comanche County	104	108	127,349	13
	Cotton County	4			
Stillwater	Payne County	86	86	81,575	7
Shawnee	Pottawatomie County	58	58	72,226	4
Muskogee	Muskogee County	23,109	23,109	69,086	1,596
Enid	Garfield County	9,952	9,952	62,603	623
Bartlesville	Washington County	62	62	51,932	3
Tahlequah	Cherokee County	152	152	48,888	7
Ardmore	Carter County	369	400	48,190	19
	Love County	30			
Ponca City	Kay County	6,063	6,063	44,544	270
McAlester	Pittsburg County	269	269	44,184	11
Duncan	Stephens County	45	45	43,332	1
Durant	Bryan County	311	311	46,319	14
Ada	Pontotoc County	3,931	3,931	38,224	150
Miami	Ottawa County	28	28	31,312	0
Weatherford	Custer County	28	28	28,800	0
Altus	Jackson County	58	58	25,125	1
Elk City	Beckham County	180	180	21,793	3
Guymon	Texas County	48	48	20,900	1
Woodward	Woodward County	80	80	20,459	1

\*40 CFR Appendix D to Part 58 §4.4.2 *Requirement for Monitoring by the Population Weighted Emissions Index.* (a) The population weighted emissions index (PWEI) shall be calculated by States for each core based statistical area (CBSA) they contain or share with another State or States for use in the implementation of or adjustment to the SO<sub>2</sub> monitoring network. The PWEI shall be calculated by multiplying the population of each CBSA, using the most current census data or estimates, and the total amount of SO<sub>2</sub> in tons per year emitted within the CBSA area, using an aggregate of the most recent county level emissions data available in the National Emissions Inventory for each county in each CBSA. The resulting product shall be divided by one million, providing a PWEI value, the units of which are million persons-tons per year. For any CBSA with a calculated PWEI value equal to or greater than 1,000,000, a minimum of three SO<sub>2</sub> monitors are required within that CBSA. For any CBSA with a calculated PWEI value equal to or greater than 100,000, but less than 1,000,000, a minimum of two SO<sub>2</sub> monitors are required within that CBSA. For any CBSA with a calculated PWEI value equal to or greater than 5,000, but less than 100,000, a minimum of one SO<sub>2</sub> monitor is required within that CBSA.

\*\*Values truncated to whole tons or whole tons/million people.

\*\*\*All population estimates based off of 2017 Census estimations found at the following link:

<https://www.census.gov/data/tables/2017/demo/popest/total-metro-and-micro-statistical-areas.html>

## **Appendix C: Further Comments**

### **Near Road Addition to Tulsa:**

EPA's current regulatory requirements from 40 CFR Appendix D to Part 58 § 4.3.2(a) states as follows:

*Within the NO<sub>2</sub> network, there must be one microscale near-road NO<sub>2</sub> monitoring station in each CBSA with a population of 1,000,000 or more persons to monitor a location of expected maximum hourly concentrations sited near a major road with high AADT counts as specified in paragraph 4.3.2(a)(1) of this appendix. An additional near-road NO<sub>2</sub> monitoring station is required for any CBSA with a population of 2,500,000 persons or more, or in any CBSA with a population of 1,000,000 or more persons that has one or more roadway segments with 250,000 or greater AADT counts to monitor a second location of expected maximum hourly concentrations. CBSA populations shall be based on the latest available census figures.*

The Tulsa MSA has the second largest population in Oklahoma behind the Oklahoma City MSA with an estimated population of 990,706 based on the latest Census Data Estimates found on the US Census Bureau website:

- <https://www.census.gov/data/tables/2017/demo/popest/total-metro-and-micro-statistical-areas.html>.

As per 40 CFR Appendix D to Part 58 § 4.3.2(a), the Tulsa MSA will not require a near-road NO<sub>2</sub> monitoring site at this time due to the population remaining under 1,000,000 persons.

### **Prevention of Significant Deterioration Air Monitoring:**

The Oklahoma DEQ monitoring network meets all requirements found in 40 CFR Part 58, Appendix B. PSD monitoring is currently not necessary for the Oklahoma DEQ.

### **Maintenance Plans for Discontinuation of SLAMS Monitors:**

Oklahoma currently is in attainment with all NAAQS and is not under a SIP Maintenance Plan.

## **Review of Site Conditions**

### **40-109-0033**

Oklahoma Department of Environmental Quality (ODEQ) has a standing waiver for probe siting for the O<sub>3</sub> and NO<sub>2</sub> samplers at 40-109-0033 due to the probe sitting at a height of 16.46 meters above ground, less than 2 meters in excess of the allowed 15 meters for probe height.

### **40-143-1110**

ODEQ is requesting removal of 40-143-1110 due to an overgrowth in trees located around the site creating conditions so the monitor no longer meets the site requirements specified in 40 CFR Part 58, Appendix D. Removal of the trees is not a viable option. ODEQ requested approval of this change via letter on February 20, 2018, and EPA Region 6 approved it in a letter dated February 27, 2018 (See Appendix D).

### **Other sites**

No other site conditions have changed or need to be addressed by ODEQ at this time.

## Appendix D: Request and EPA Approval of 40-143-1110 Removal



SCOTT A. THOMPSON  
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN  
Governor

February 20, 2018

Mr. Guy Donaldson, Associate Director for Air  
Multimedia Division  
USEPA Region 6 (6-MM-AA)  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

### **CERTIFIED MAIL: RETURN RECEIPT REQUESTED**

Subject: Site 40-143-1110

Dear Mr. Donaldson:

The Department of Environmental Quality (DEQ) operates a PM-10 monitor located at Site 40-143-1110 in Turner Park, Tulsa, Oklahoma. As previously discussed during our telephone call and emails with Dorothy Crawford, EPA Region 6 Monitoring, DEQ is considering discontinuance of monitoring at Turner Park. The trees located around the site have grown so the monitor no longer meets the site requirements specified in 40 CFR Part 58, Appendix D. Removal of the trees is not a viable option. We appreciate your staff's assistance as we evaluated possible options for addressing this siting issue. After careful consideration, DEQ is requesting approval to discontinue the aforementioned SLAMS monitor as provided in 40 CFR Part 58, Appendix D (2)(d).

Ms. Crawford pointed out that the population of the Tulsa Metropolitan Statistical Area (MSA) is currently less than one million. Only one PM-10 monitor is required by 40 CFR 58 Appendix D in areas considered to be "low concentration". The DEQ-operated PM-10 monitor at Site 40-143-1127 will fulfill that network requirement. Site 40-143-1127, ALSO LOCATED IN Tulsa, recorded higher concentrations of PM-10 than Site 40-143-1110 during the 2014 through 2017 period. The highest concentration recorded at Site 40-143-1127 was 100 micrograms per cubic meter, which is less than 80 percent of the NAAQS (120 micrograms per cubic meter) so the Tulsa MSA falls into the "low concentration" category.

707 NORTH ROBINSON, P.O. BOX 1677, OKLAHOMA CITY, OKLAHOMA 73101-1677

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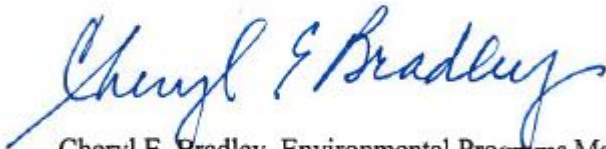


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Guy Donaldson  
February 20, 2018

It is anticipated that the Tulsa MSA population will reach one million in the next few years so another PM-10 monitor will be required, as well as a Near-Road NO<sub>2</sub> monitoring site. DEQ is considering locating this PM-10 monitor at the Near-Road site.

We are currently working on our 2018 Annual Network Plan and plan to include the closing of Site 40-143-1110 in the plan. Again, thanks for your assistance in this matter. If you have any questions or require additional information, please contact Curt Goeller, Manager of Monitoring Section-East, at 405-702-4126.

Sincerely,



Cheryl E. Bradley, Environmental Programs Manager

Data and Planning Section

ecc: Curt Goeller, DEQ

Fran Verhalen, EPA Region 6

Ellen Belk, EPA Region 6

Dorothy Crawford, EPA Region 6

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS TX 75202-2733

FEB 27 2018

Ms. Cheryl E. Bradley  
Environmental Programs Manager  
Data and Planning Section  
Oklahoma Department of Environmental Quality  
P.O. Box 1677  
Oklahoma City, OK 73101-1677

Dear Ms. Bradley:

This letter responds to the Oklahoma Department of Environmental Quality (ODEQ) request of February 20, 2018. The ODEQ requests to discontinue a monitor measuring particulate matter 10 micrometers or less in diameter (PM<sub>10</sub>) located at the Turner Park site (ID 40-143-1110).

The U.S. Environmental Protection Agency (EPA) approves the request. We look forward to our continued collaborative work on Oklahoma's ambient air monitoring network. If you have any questions, please contact me at (214) 665-7242, or Dorothy Crawford of my staff at (214) 665-2771.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Guy Donaldson".

Guy Donaldson  
Associate Director for  
Air, Multimedia Division

cc: Curt Goeller, ODEQ  
Kent Stafford, ODEQ