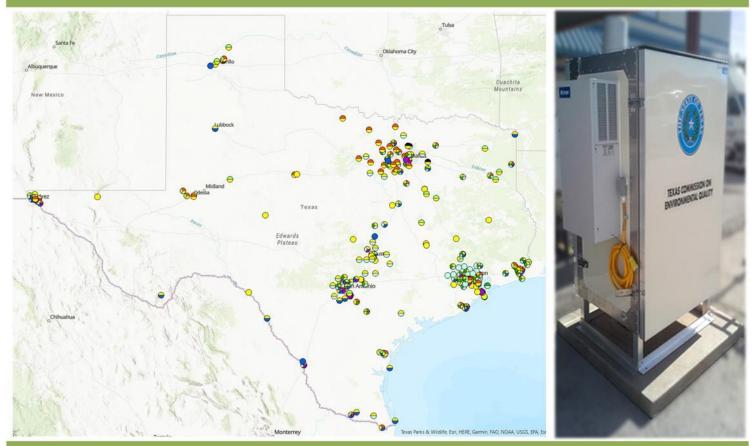
# **Texas Commission on Environmental Quality** Draft Annual Monitoring Network Plan



P.O. Box 13087 Austin, Texas 78711-3087



April 22, 2021

# **Texas Commission on Environmental Quality Draft 2021 Annual Monitoring Network Plan**

# **Table of Contents**

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY DRAFT 2021 ANNUAL MONITORING NETWORK PLAN	2
List of Appendices List of Tables List of Acronyms and Abbreviations	
INTRODUCTION	7
REGULATORY NETWORK REVIEW	8
Nitrogen Dioxide	8
Monitoring Requirements	8
Previously Recommended Changes	10
Regulatory NO <sub>2</sub> Monitoring Network Changes	10
Sulfur Dioxide	
Monitoring Requirements	11
Previously Recommended Changes	12
Regulatory SO <sub>2</sub> Monitoring Network Changes	12
Lead	12
Monitoring Requirements	13
Previously Recommended Changes	14
Regulatory Pb Monitoring Network Changes	14
Ozone	14
Monitoring Requirements	14
Previously Recommended Changes	15
Regulatory O3 Monitoring Network Changes	15
Carbon Monoxide	15
Monitoring Requirements	16
Previously Recommended Changes	16
Regulatory CO Monitoring Network Changes	16
Particulate Matter of 10 Micrometers or Less	16
Monitoring Requirements	16
Previously Recommended Changes	17
Regulatory PM <sub>10</sub> Monitoring Network Changes	18

Particulate Matter of 2.5 Micrometers or Less	
Monitoring Requirements	18
Previously Recommended Changes	20
Regulatory PM <sub>2.5</sub> Monitoring Network Changes	22
Volatile Organic Compounds	23
Monitoring Requirements	23
Previously Recommended Changes	23
Regulatory VOC Monitoring Network Changes	23
Carbonyls	23
Monitoring Requirements	23
Previously Recommended Changes	24
Regulatory Carbonyl Monitoring Network Changes	24
Meteorology	24
Monitoring Requirements	24
Previously Recommended Changes	24
ADDITIONAL MONITORING CONSIDERATIONS	25
CONCLUSION	25

## List of Appendices

- Appendix A 2021 Summary of Proposed Network Changes
- Appendix B Ambient Air Monitoring Network Site List
- Appendix C Population and Criteria Pollutant Monitor Requirements and Count Summary by Metropolitan Statistical Area
- Appendix D Nitrogen Dioxide, Nitrogen Oxide, and Total Reactive Nitrogen Monitor Requirements and Count Summary
- Appendix E Sulfur Dioxide Monitor Requirements and Count Summary
- Appendix F Sulfur Dioxide Ongoing Data Requirements Annual Report
- Appendix G Total Suspended Particulate Lead Monitor Requirements and Count Summary
- Appendix H Ozone Monitor Requirements and Count Summary
- Appendix I Carbon Monoxide Monitor Requirements and Count Summary
- Appendix J Particulate Matter of 10 Micrometers or Less Monitor Requirements and Count Summary
- Appendix K Particulate Matter of 2.5 Micrometers or Less Monitor Requirements and Count Summary
- Appendix L Volatile Organic Compound and Carbonyl Monitor Requirements and Count Summary
- Appendix M 2021 Additional Monitoring Considerations

## <u>List of Tables</u>

- Table 1: NCore and PAMS Sites
- Table 2: 2017-2019 Lead Point Source Emissions Inventory Data
- Table 3: Ozone Monitoring Requirements
- Table 4: Particulate Matter of 10 Micrometers or Less Minimum Monitoring Requirements
- Table 5: Particulate Matter of 2.5 Micrometers or Less Minimum Monitoring Requirements
- Table 6: Particulate Matter of 2.5 Micrometers or Less FEM Quality Control Collocation Monitor Types and Site Names

 Table 7: Particulate Matter of 2.5 Micrometers or Less Summary of Approved Changes

Table 8: Particulate Matter of 2.5 Micrometers or Less Recommendations

## List of Acronyms and Abbreviations

- # number
- % percent
- > greater than
- $\geq$  greater than or equal to
- < less than
- $\mu g/m^{\scriptscriptstyle 3}$  micrograms per cubic meter
- AMNP annual monitoring network plan
- autoGC automated gas chromatograph
- CBSA core based statistical area
- CFR Code of Federal Regulations
- CO carbon monoxide
- DFW Dallas-Fort Worth
- DRR Data Requirements Rule
- EI emissions inventory
- EPA United States Environmental Protection Agency
- FEM federal equivalent method
- FRM federal reference method
- LBJ Lyndon B. Johnson
- LLC limited liability company
- MSA metropolitan statistical area
- NA not applicable
- NAAQS National Ambient Air Quality Standards
- NCore National Core Multipollutant Monitoring Stations
- NEI National Emissions Inventory
- NO<sub>2</sub> nitrogen dioxide
- NO nitrogen oxide
- $NO_x$  oxides of nitrogen
- NO<sub>y</sub> total reactive nitrogen compounds
- O<sub>3</sub> ozone
- PAMS Photochemical Assessment Monitoring Stations
- Pb lead
- $\ensuremath{\text{PM}_{\mbox{\tiny 10}}}$  particulate matter of 10 micrometers or less in diameter
- $PM_{2.5}$  particulate matter of 2.5 micrometers or less in diameter

- PM<sub>10-2.5</sub> coarse particulate matter
- ppb parts per billion
- PWEI population weighted emissions index
- QC quality control
- RA-40 Regional Administrator 40
- SE southeast
- SLAMS State or Local Air Monitoring Stations
- SO<sub>2</sub> sulfur dioxide
- SPM special purpose monitor
- TAD technical assistance document
- TCEQ Texas Commission on Environmental Quality
- TEOM tapered element oscillating microbalance
- tpy tons per year
- TSP total suspended particulate
- U.S. United States
- UTEP University of Texas at El Paso
- VOC volatile organic compound

## Introduction

Title 40 Code of Federal Regulations (CFR) Section 58.10 requires states to submit an annual monitoring network plan (AMNP) to the United States (U.S.) Environmental Protection Agency (EPA) by July 1 of each year. This monitoring plan is required to provide the implementation and maintenance framework for an air quality surveillance system, known commonly as the ambient air quality monitoring network.

The TCEQ reviews its ambient air quality monitoring network annually and creates the AMNP to demonstrate how Texas is meeting or will meet federal air monitoring requirements specified in 40 CFR Part 58 and its appendices. The AMNP presents the current federal network established for use in evaluations to determine compliance with the National Ambient Air Quality Standards (NAAQS). The monitoring plan includes proposed changes from the previous year and future proposed changes to the monitoring network. Specific air monitors used to meet federal air quality standards as well as other monitors that provide additional information on air quality and the weather are discussed in the AMNP. Because the AMNP is focused on federally required monitoring, it does not include a review of state-initiated monitoring conducted in addition to federal requirements. This plan is limited to the portion of the TCEQ air monitoring network designed to comply with federal monitoring requirements and supported by federal funding.

The Texas Commission on Environmental Quality (TCEQ) posts the annual plan to solicit public comment for at least 30 days prior to submission to the EPA. The TCEQ submits the AMNP to the EPA for final review and approval with comments received during the 30-day inspection period, responses to the comments, and with any appropriate changes based on the received comments. This plan includes the recommended federal monitoring network changes from July 1, 2020, through December 31, 2022, summarized in AMNP Appendix A. Historical air monitoring network plans, associated public comments, and TCEQ responses are available on the TCEQ webpage <u>TCEQ Monitoring Network Plans and Lead Waiver Requests - Texas Commission on Environmental Quality - www.tceq.texas.gov</u>.

The TCEQ continues to evaluate additional ambient air monitoring requested during previous AMNP public inspection and comment periods. Details regarding the potential monitors under consideration are included in this plan to solicit further public comment. Any future implementation of these monitoring considerations may be included as part of the TCEQ federal ambient air monitoring network or as state-initiative special studies. These monitoring proposals are under consideration, and the proposals and implementation of said proposals are subject to change.

The TCEQ monitoring network includes more than double the number of monitors required by federal rule. The TCEQ also operates a robust network of state-initiative monitors that support a variety of purposes, including potential health effects evaluation; however, these monitors are outside the scope of this document and are not included. The latest information regarding the Texas air monitoring network, monitoring data, and air quality forecast conditions for Texas' metropolitan areas is featured on the TCEQ webpage <u>Air Quality and Monitoring - Texas Commission on Environmental Quality - www.tceq.texas.gov</u>.

Title 40 CFR Part 58, Appendix D provides the minimum design requirements for air monitoring networks including State or Local Air Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), and National Core Multi-

Pollutant Monitoring Stations (NCore). AMNP Appendix B lists existing monitors established to meet federal monitoring requirements and objectives.

Based on annual internal audits performed to date, all monitoring sites supporting federal requirements and monitoring objectives are meeting the requirements defined in 40 CFR Part 58 and Appendices A, B, C, D, and E, with the following exception:

• The TCEQ is developing site specifications to make changes at the Midlothian Old Fort Worth (OFW) site, which is not meeting siting criteria.

The following sites will be relocated at the request of the property owner.

- The TCEQ Nederland High School site will be relocated less than one mile from the current site and renamed Nederland 17<sup>th</sup> Street, approved by the EPA in a letter dated March 17, 2021, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes.
- The TCEQ Brownsville site will be relocated with a new site name due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes.

AMNP Appendix C lists Texas core based statistical areas (CBSAs) or metropolitan statistical areas (MSAs), 2019 U.S. Census Bureau population estimates, and associated required monitor counts. The TCEQ uses these data to evaluate the networks as documented in the AMNP. The U.S. Office of Management and Budget defined CBSAs and MSAs overlap in Texas, and the terms are used interchangeably in this assessment according to usage in federal regulations.

# **Regulatory Network Review**

## <u>Nitrogen Dioxide</u>

The TCEQ nitrogen dioxide (NO<sub>2</sub>) network includes monitoring for nitrogen oxide (NO), NO<sub>2</sub>, true NO<sub>2</sub>, and total reactive nitrogen compound (NO<sub>y</sub>) pollutants sited in compliance with federal monitoring requirements, as discussed further in this section. The TCEQ NO<sub>2</sub> network is designed to meet area-wide, Regional Administrator 40 (RA-40), near-road, PAMS, and NCore monitoring requirements. The TCEQ is required to operate 20 monitors that measure NO, NO<sub>2</sub>, true NO<sub>2</sub>, and NO<sub>y</sub> and exceeds the requirements with 58 monitors that measure those pollutants. AMNP Appendix D lists the monitoring requirements for NO, NO<sub>2</sub>, true NO<sub>2</sub>, and NO<sub>y</sub> in each Texas CBSA. The TCEQ utilizes a variety of instruments to measure these pollutants including a oxides of nitrogen (NO<sub>x</sub>) monitor that reports NO<sub>2</sub>, NO, and NO<sub>x</sub>; an instrument that measures NO<sub>2</sub> directly, and a NO<sub>y</sub> instrument that reports NO<sub>y</sub> and NO<sub>y</sub> are measured.

## Monitoring Requirements

#### Area-Wide Monitoring Requirements

Title 40 CFR Part 58, Appendix D, Section 4.3.3 requires one area-wide ambient air quality monitoring site in each CBSA with a population of 1,000,000 or more persons. The requirements stipulate that these sites be located in the areas with the highest expected  $NO_2$  concentration that are also representative of a neighborhood or larger

(urban) spatial scale. Title 40 CFR Part 58, Appendix D, Section 4.3.5 (3) and (4), define neighborhood scale monitoring as representative of ambient air concentrations in an area between 0.5 and 4.0 kilometers with relatively uniform land use. Urban scale monitoring is representative of ambient air concentrations over large portions of an urban area with dimensions between 4 and 50 kilometers.

Based on 2019 U.S. Census Bureau population estimates for Texas as noted in Appendix D, area-wide neighborhood or urban scale NO<sub>2</sub> monitoring is required in four Texas CBSAs. The NO<sub>2</sub> monitors at the following sites meet these area-wide requirements.

- Dallas-Fort Worth-Arlington (DFW) CBSA: Dallas Hinton
- Houston-The Woodlands-Sugar Land (Houston) CBSA: Clinton
- San Antonio-New Braunfels (San Antonio) CBSA: San Antonio Northwest
- Austin-Round Rock (Austin) CBSA: Austin North Hills Drive

#### **Regional Administrator Monitoring Requirements**

Title 40 CFR Part 58, Appendix D, Section 4.3.4 states that the EPA Regional Administrators collaborate with the states to designate a minimum of 40 NO<sub>2</sub> monitoring stations nationwide that are positioned to protect susceptible and vulnerable populations (referred to as RA-40 monitoring requirements). The TCEQ collaborated with the EPA to identify the four Texas monitoring sites listed below to meet the portion of this requirement attributed to Texas.

- DFW CBSA: Arlington Municipal Airport
- Houston CBSA: Clinton
- El Paso CBSA: Ascarate Park Southeast (SE)
- Beaumont-Port Arthur (Beaumont) CBSA: Nederland High School

#### Near-Road Monitoring Requirements

Title 40 CFR Part 58, Appendix D, Section 4.3.2 requires one microscale near-road NO<sub>2</sub> monitor located near a major road with high annual average daily traffic counts in each CBSA with a population of 1,000,000 or more persons. An additional near-road monitor is required in each CBSA with a population of 2,500,000 or more persons. The TCEQ near-road monitoring network meets these requirements with the six current sites and one pending site listed below.

- DFW CBSA: Dallas LBJ Freeway and Fort Worth California Parkway North
- Houston CBSA: Houston Southwest Freeway and Houston North Loop
- San Antonio CBSA: San Antonio Interstate 35 and the pending new site listed in the AMNP NO<sub>2</sub> Previously Recommended Changes section below
- Austin CBSA: Austin North Interstate 35

#### NCore and PAMS Monitoring Requirements

The TCEQ meets NCore monitoring requirements listed in 40 CFR Part 58, Appendix D, Section 3(b) with NO and NO<sub>y</sub> measured at the NCore sites listed in Table 1.

The EPA revisions to the PAMS program under the final rule published October 26, 2015, and listed in 40 CFR Part 58, Appendix D, Section 5, require state agencies to

collect and report NO, true NO<sub>2</sub>, and NO<sub>y</sub> measurements at NCore sites in CBSAs with 1,000,000 or more persons. The TCEQ meets the PAMS network monitoring requirements with hourly averaged NO, NO<sub>2</sub>, and NO<sub>y</sub> measured at the Dallas Hinton and Houston Deer Park number #2 sites.

Core Based Statistical Area	Site Name	2019 Population Estimates*	NCore	PAMS
Dallas-Fort Worth- Arlington	Dallas Hinton	7,573,136	Yes	Yes
Houston-The Woodlands-Sugar Land	Houston Deer Park #2	7,066,141	Yes	Yes
El Paso	El Paso Chamizal	844,124	Yes	No

#### Table 1: NCore and PAMS Sites

\*United States Census Bureau population estimates as of July 1, 2019.

# - number

NCore - National Core Multipollutant Monitoring Station

PAMS - Photochemical Assessment Monitoring Stations

## Previously Recommended Changes

The TCEQ 2019 AMNP recommended deploying a NO<sub>x</sub> monitor to a new Houston West End site, named Houston Harvard Street. The EPA approved the request in a letter dated November 4, 2019, and the monitor was deployed January 25, 2021. The TCEQ Austin Northwest NO<sub>x</sub> monitor was temporarily shut down on February 18, 2020, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes. The air monitoring station was relocated one-tenth of a mile to Austin North Hills Drive on October 15, 2020, and the NO<sub>x</sub> monitor was activated on October 21, 2020. This site relocation was approved by the EPA in a letter dated April 10, 2020.

The TCEQ 2020 AMNP recommended deploying a second near-road monitoring station in the San Antonio CBSA to meet the near-road monitoring requirement in CBSAs with 2,500,000 or more persons. The EPA approved the request in a letter dated October 22, 2020. The TCEQ continues to explore possible new sites adjacent to the highest possible ranked road segment and expects to deploy the site and NO<sub>x</sub> monitor before December 31, 2021.

## **Regulatory NO<sub>2</sub> Monitoring Network Changes**

The TCEQ evaluated the current NO<sub>2</sub> monitoring network with the changes described above and determined the existing NO<sub>2</sub> network, with the addition of a second pending San Antonio near-road NO<sub>2</sub> monitoring site, meets all federal monitoring requirements; therefore, no changes are recommended. The TCEQ will update this plan and provide additional information regarding potential San Antonio near-road NO<sub>2</sub> monitoring sites to EPA Region 6 for review and approval, as they become available.

## <u>Sulfur Dioxide</u>

The TCEQ sulfur dioxide (SO<sub>2</sub>) network includes monitors sited to meet federal ambient SO<sub>2</sub> and high-sensitivity SO<sub>2</sub> monitoring requirements. The TCEQ SO<sub>2</sub> network is designed to meet the population weighted emissions index (PWEI) by CBSA, 2015 *Data Requirements Rule (DRR) for the 1-Hour Sulfur Dioxide Primary NAAQS*, and NCore monitoring requirements, as discussed further in this section. The TCEQ is required to operate a total of 19 SO<sub>2</sub> monitors and exceeds the requirements with 31 monitors. A summary of the PWEI calculations, monitoring requirements, and current number of SO<sub>2</sub> monitors in each CBSA is shown in AMNP Appendix E. AMNP Appendix B lists the air monitoring sites where SO<sub>2</sub> is measured.

## **Monitoring Requirements**

#### **Population Weighted Emissions Index Requirements**

Title 40 CFR Part 58, Appendix D, Section 4.4.2 requires states to establish an SO<sub>2</sub> monitoring network based on the PWEI calculations for Texas CBSAs. These indices are calculated by multiplying the CBSA population by the emissions inventory (EI) data for counties within that CBSA. The calculated values are divided by one million to obtain the CBSA PWEI. The PWEI monitoring requirements include the following:

- one monitor in CBSAs with a PWEI equal to or greater than 5,000, but less than 100,000;
- two monitors in CBSAs with a PWEI equal to or greater than 100,000, but less than 1,000,000; and
- three monitors in CBSAs with a PWEI equal to or greater than 1,000,000.

The TCEQ used the most recent quality assured data available – the 2019 U.S. Census Bureau population estimates and 2017 National Emissions Inventory (NEI) data with 2019 TCEQ point-source EI data to calculate the PWEIs and to determine the minimum monitoring requirements for each CBSA. The TCEQ meets the PWEI requirements with six monitors, as shown in AMNP Appendix E.

#### Data Requirements Rule (DRR) Requirements

Title 40 CFR Part 51 Subpart BB (the DRR) required air agencies to characterize air quality around specified sources that emitted 2,000 tons per year (tpy) or more of SO<sub>2</sub> in the latest emissions inventory year (2014, at that time, for Texas). The TCEQ identified 24 sources for air quality characterization, including 13 sources identified for evaluation by monitoring. To meet the DRR requirement for characterization of air quality around those sources, 11 SO<sub>2</sub> source-oriented monitors, located near these 13 sources, were installed and operating by January 1, 2017. Details for the TCEQ's DRR SO<sub>2</sub> source evaluation, modeling, and monitoring recommendations are in the TCEQ 2017 AMNP.

One of the 11 sites, the TCEQ Rockdale John D. Harper  $SO_2$  monitor (and entire site), was decommissioned on June 5, 2020, due to the sale/lease of the property. This monitor was eligible for decommission based on a preliminary design value less than 50% of the 2010 one-hour  $SO_2$  NAAQS from data collected during the first three-year period of operation, as provided by 40 CFR Section 51.1203(c)(3). Additionally, the facility near this site that required DRR  $SO_2$  air quality characterization was shut down

in 2017. The EPA approved of this site decommissioning in a letter dated May 29, 2020.

Title 40 CFR Section 51.1205(b) requires the TCEQ to submit an annual report for areas where modeling of actual SO<sub>2</sub> emissions served as the basis for designating such area as attainment. The report must document the annual SO<sub>2</sub> emissions of each applicable source, provide an assessment of the cause of any emissions increase from the previous year, and make a recommendation regarding further modeling needs. The DRR-required assessment and recommendation are provided in AMNP Appendix F. Where allowable SO<sub>2</sub> emissions served as the basis for designating the area as attainment, air agencies are not subject to ongoing data requirements, *see* 40 CFR Section 51.1205(c).

#### NCore Requirements

Title 40 CFR Part 58, Appendix D, Section 3 requires states to monitor  $SO_2$  at NCore sites. The TCEQ meets this requirement with three high-sensitivity  $SO_2$  monitors at the NCore sites listed in Table 1.

#### **Previously Recommended Changes**

The TCEQ Austin Northwest  $SO_2$  monitor was temporarily shut down on February 18, 2020, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes. The air monitoring station was relocated one-tenth of a mile to Austin North Hills Drive on October 15, 2020, and the  $SO_2$  monitor was activated on October 21, 2020. The site relocation was approved by the EPA in a letter dated April 10, 2020.

The TCEQ 2020 AMNP recommended decommissioning the Baytown Garth SO<sub>2</sub> monitor and changing two SO<sub>2</sub> monitor network designations. The EPA approved the requested changes in a letter dated October 22, 2020. The Baytown Garth SO<sub>2</sub> monitor was decommissioned on October 21, 2020, based on the most recent passing quality assurance checks. The Houston Croquet SO<sub>2</sub> monitor network designation was changed from SPM to SLAMS to meet area PWEI requirements, and the Corsicana Airport SO<sub>2</sub> monitor was changed from state-initiative to federal SPM on January 1, 2021.

#### **Regulatory SO<sub>2</sub> Monitoring Network Changes**

The TCEQ recommends decommissioning the San Antonio Gardner Road  $SO_2$  monitor by December 31, 2021. This monitor is eligible for decommission based on the 2017-2019 design value of 22 ppb, which is 29% of the one-hour  $SO_2$  NAAQS, as provided by 40 CFR Section 51.1203(c)(3). In addition, the  $SO_2$  source requiring DRR  $SO_2$  air quality characterization was shut down in late 2018. The San Antonio-New Braunfels CBSA PWEI required monitor, located at the Calaveras Lake air monitoring site, will remain operational.

## <u>Lead</u>

The TCEQ lead (Pb) network includes total suspended particulate (TSP) monitors sited in compliance with federal source-oriented SLAMS requirements, as discussed further in this section. The TCEQ Pb network is required to operate three TSP Pb monitors and meets this requirement. AMNP Appendix G lists the Pb network monitoring requirements and the total number of TSP Pb monitors. AMNP Appendix B lists the air monitoring sites where Pb is measured.

## **Monitoring Requirements**

The TCEQ Pb network meets 40 CFR Part 58, Appendix D, Section 4.5 monitoring requirements. This section requires state agencies to conduct ambient air Pb monitoring near Pb sources that have been shown or are expected to contribute to a maximum ambient air Pb concentration in excess of the standard. Title 40 CFR Part 58, Appendix D, Section 4.5(a) requires a minimum of one source-oriented ambient air Pb monitoring site to measure maximum concentrations near each non-airport facility emitting 0.50 tpy or more of Pb annually, based on either the most recent NEI data or annual EI data submitted to meet state reporting requirements.

The TCEQ evaluated the 2017, 2018, and 2019 Pb point source EI data. All 2019 point source emissions are below the 0.50 tpy threshold. Table 2 includes information regarding Pb point source EI data and source-oriented monitoring.

Facility Name	County	2017 Pb Emissions (tpy)	2018 Pb Emissions (tpy)	2019 Pb Emissions (tpy)	TCEQ Comments
Lower Colorado River Authority	Fayette	0.6300	0.5793	0.1800	Pb waiver renewal approved on October 26, 2015, see Pb Waivers section below for detail
Conecsus, LLC	Kaufman	0.2617	0.2812	0.1804	Pb is currently monitored at the Terrell Temtex site

Table 2: 2017-2019 Lead Point Source Emissions Inventory Data

LLC - limited liability company

Pb – lead

TCEQ – Texas Commission on Environmental Quality

#### Pb Waivers

Under 40 CFR Part 58, Appendix D, Section 4.5(a)(ii), the EPA Regional Administrator may waive the requirement in 40 CFR Part 58, Appendix D, 4.5(a) for monitoring near specific Pb sources with sufficient demonstration that the Pb source will not contribute to a maximum concentration in ambient air greater than 50% of the NAAQS based on historical monitoring data, modeling, or other approved means. All approved waivers must be renewed every five years as part of the network assessment required under 40 CFR Part 58.10(d).

The request to renew the Lower Colorado River Authority Fayette Power Plant Pb waiver in the 2015 TCEQ *Texas Five-Year Ambient Monitoring Network Assessment* was approved by the EPA Region 6 in a letter dated October 26, 2015. The TCEQ submitted a Pb modeling analysis for the Lower Colorado River Authority Fayette Power Plant in the 2020 TCEQ *Texas Five-Year Ambient Monitoring Network Assessment*. The Pb modeling analysis demonstration, necessary to request a waiver from the source oriented Pb monitoring requirement, indicated the predicted maximum ground level concentration for a rolling three-month average continues to remain below 50% of the NAAQS. The TCEQ has not received a response from EPA Region 6 on the 2020 Pb waiver request.

#### **Collocation Requirements**

Title 40 CFR Part 58, Appendix A, Section 3.4.4 requires a primary quality assurance organization to select 15% of the Pb monitoring sites within the network for collocated quality control (QC) monitoring, with the first of these monitors measuring the highest Pb concentrations in the network. Based on the current network of primary Pb monitors, the TCEQ is required to maintain one collocated QC Pb monitor. The TCEQ operates collocated QC Pb monitors at Frisco Eubanks and Terrell Temtex. Terrell Temtex measured the highest 2019 network Pb concentrations.

#### Previously Recommended Changes

The TCEQ 2020 AMNP recommended decommissioning the Pb monitors at El Paso UTEP and Ojo De Agua due to a lack of area point sources and near-nondetectable Pb monitoring data. The EPA approved the requests in a letter dated October 22, 2020. The El Paso UTEP and Ojo De Agua Pb monitors were decommissioned on October 31, 2020, and the air monitoring sites will continue monitoring for other pollutants, as listed in AMNP Appendix B.

## **Regulatory Pb Monitoring Network Changes**

The TCEQ evaluated the current Pb monitoring network and determined the existing Pb network meets all federal monitoring requirements; therefore, no changes are recommended.

## <u>Ozone</u>

The TCEQ ozone ( $O_3$ ) network is designed to meet SLAMS, PAMS, and NCore monitoring requirements, as discussed further in this section. The TCEQ  $O_3$  monitoring network is required to operate a total of 27  $O_3$  monitors and exceeds this requirement with 72  $O_3$  monitors. AMNP Appendix H lists the  $O_3$  requirements and monitors in each MSA in the state. AMNP Appendix B lists the air monitoring sites where  $O_3$  is measured.

#### **Monitoring Requirements**

#### **SLAMS Requirements**

Title 40 CFR Part 58, Appendix D, Section 4.1 requires  $O_3$  monitoring in each MSA with a population of 350,000 or more persons. Monitoring is also required in MSAs with lower populations if the design value for that MSA is equal to or greater than 85% of the NAAQS. Monitoring requirements are outlined in Table 3. According to 2019 U.S. Census Bureau population estimates and 2017-2019 eight-hour  $O_3$  design values, the TCEQ must operate a minimum of 24  $O_3$  monitors to meet SLAMS network requirements. AMNP Appendix B lists the monitors in each MSA.

MSA Population	Monitors required for MSAs with most recent 3-year design value concentrations ≥85% of any O₃ NAAQS <sup>1</sup>	Monitors required for MSAs with most recent 3-year design value concentrations <85% of any O <sub>3</sub> NAAQS <sup>2, 3</sup>
>10,000,000	4	2
4,000,000 to 10,000,000	3	1
350,000 to <4,000,000	2	1
50,000 to <350,000	1	0

#### **Table 3: Ozone Monitoring Requirements**

<sup>1</sup>The ozone (O<sub>3</sub>) National Ambient Air Quality Standards (NAAQS) levels are defined in 40 CFR Part 50. <sup>2</sup>These minimum monitoring requirements apply in the absence of a design value.

<sup>3</sup>MSA must contain an urbanized area of 50,000 or more population.

 $\geq$  - greater than or equal to

< - less than

> - greater than

% - percent

#### **NCore and PAMS Requirements**

In addition to SLAMS  $O_3$  requirements, 40 CFR Part 58, Appendix D, Sections 3 and 5 require  $O_3$  monitoring at NCore sites to meet NCore design criteria, and at NCore sites in CBSAs with a population of 1,000,000 or more persons to meet PAMS requirements. The TCEQ meets combined NCore and PAMS requirements with  $O_3$  monitors at the three NCore sites listed in Table 1.

#### **Previously Recommended Changes**

The TCEQ 2019 AMNP recommended deploying O<sub>3</sub> SPM monitors to a new Houston West End site, named Houston Harvard Street, and to the Ojo De Agua air monitoring site in El Paso, Texas. The EPA approved the requests in a letter dated November 4, 2019, and the monitors were activated on January 19, 2021 and March 24, 2021, respectively.

The TCEQ Austin Northwest  $O_3$  monitor was temporarily shut down on February 18, 2020, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes. The air monitoring station was relocated one-tenth of a mile to Austin North Hills Drive on October 15, 2020, and the  $O_3$  monitor was activated on October 22, 2020. The site relocation was approved by the EPA in a letter dated April 10, 2020.

#### **Regulatory O<sub>3</sub> Monitoring Network Changes**

The TCEQ evaluated the current  $O_3$  monitoring network and determined the existing  $O_3$  network meets all federal monitoring requirements; therefore, no changes are recommended.

## Carbon Monoxide

The TCEQ carbon monoxide (CO) network includes ambient CO and high-sensitivity CO monitoring to meet federal monitoring requirements, as discussed in this section. The TCEQ CO network is designed to meet NCore and near-road monitoring requirements. The agency is required to operate seven total CO monitors and exceeds the requirements with 12 monitors: seven ambient CO monitors and five high-sensitivity

CO monitors. AMNP Appendix I lists the required and current CO monitors in each CBSA. AMNP Appendix B lists the air monitoring sites where CO is measured.

#### Monitoring Requirements

#### **NCore Requirements**

Title 40 CFR Part 58, Appendix D, Section 3 requires CO monitoring at NCore sites. The EPA's *Technical Assistance Document (TAD) for Precursor Gas Measurements in the NCore Multi-Pollutant Monitoring Network – Version 4* (September 2005) recommends high-sensitivity CO monitors at the NCore sites. The TCEQ meets this technical recommendation with high-sensitivity CO monitors at the three NCore sites listed in Table 1.

#### Near-Road Requirements

Title 40 CFR Part 58, Appendix D, Section 4.2 requires collocating one CO monitor with one required near-road  $NO_2$  monitor in CBSAs with populations of 1,000,000 or more persons. The TCEQ meets this requirement with CO monitors at the following near-road sites.

- DFW CBSA: Fort Worth California Parkway North
- Houston CBSA: Houston North Loop
- San Antonio CBSA: San Antonio Interstate 35
- Austin CBSA: Austin North Interstate 35

#### Previously Recommended Changes

The TCEQ 2019 AMNP recommended replacing the San Antonio Interstate 35 CO monitor with a high-sensitivity CO monitor. The EPA approved this request in a letter dated November 4, 2019. The existing San Antonio Interstate 35 CO monitor will be replaced with a high-sensitivity CO monitor Spring 2021.

#### **Regulatory CO Monitoring Network Changes**

The TCEQ evaluated the current CO monitoring network and determined the existing CO network meets all federal monitoring requirements; therefore, no changes are recommended.

## Particulate Matter of 10 Micrometers or Less

The TCEQ particulate matter of 10 micrometers or less in diameter ( $PM_{10}$ ) network is designed to meet SLAMS monitoring requirements based on MSA populations, as discussed further in this section. The TCEQ is required to operate between 11 and 32  $PM_{10}$  monitors and exceeds the minimum requirements with 20 monitors. AMNP Appendix J lists the required and current  $PM_{10}$  monitors in each MSA. AMNP Appendix B lists the air monitoring sites where  $PM_{10}$  is measured.

## **Monitoring Requirements**

The TCEQ  $PM_{10}$  network is designed to meet the area requirements of 40 CFR Part 58, Appendix D, Section 4.6, which specifies the number of  $PM_{10}$  monitors required in MSAs based on population and available measured concentrations. Monitoring requirements are listed in Table 4. Compliance with the  $PM_{10}$  standard is based on the number of measured exceedances of the 150  $\mu$ g/m<sup>3</sup> standard averaged over three years. The evaluation of PM<sub>10</sub> monitoring requirements was completed using the most recent quality assured data - 2019 U.S. Census Bureau population estimates and 2017-2019 PM<sub>10</sub> data. The evaluation and associated maximum 2017-2019 concentrations for each MSA are listed in AMNP Appendix J, Table 1.

Table 4: Particulate Matter of 10 Micrometers or Less Minimum MonitoringRequirements

MSA Population	PM <sub>10</sub> monitors required for MSAs with high concentration <sup>1</sup>	PM <sub>10</sub> monitors required for MSAs with medium concentration <sup>2</sup>	PM <sub>10</sub> monitors required for MSAs with low concentration <sup>3</sup>
>1,000,000	6-10	4-8	2-4
500,000 to 1,000,000	4-8	2-4	1-2
250,000 to 500,000	3-4	1-2	0-1
100,000 to 250,000	1-2	0-1	0

<sup>1</sup>High Concentration areas are those for which ambient PM<sub>10</sub> data show ambient concentrations exceeding the PM<sub>10</sub> National Ambient Air Quality Standards (NAAQS) by 20 percent or more.

<sup>2</sup>Medium Concentration areas are those for which ambient  $PM_{10}$  data show ambient concentrations exceeding 80 percent of the  $PM_{10}$  NAAQS.

 $^{3}$ Low Concentration areas are those for which ambient PM<sub>10</sub> data show ambient concentrations less than 80 percent of the PM<sub>10</sub> NAAQS.

 $PM_{10}$  – particulate matter of 10 micrometers or less in diameter

> - greater than

#### **Collocation Requirements**

Title 40 CFR Part 58, Appendix A, Section 3.3.4 requires a primary quality assurance organization to select 15% of the  $PM_{10}$  monitoring sites within the network for collocated QC sampling. At least 50% of the selected sites should have an annual mean particulate matter concentration among the highest in the network. AMNP Appendix J, Table 2 lists the maximum concentration measurements during the three-year period from 2017-2019 and includes the 2017, 2018, and 2019 annual mean concentrations for each  $PM_{10}$  site. The TCEQ evaluates the  $PM_{10}$  concentration data annually to ensure the  $PM_{10}$  collocated QC monitors continue to meet 40 CFR Part 58, Appendix A, Section 3.3.4.2. Based on the current network of  $PM_{10}$  monitors, the TCEQ is required to operate three  $PM_{10}$  collocated QC monitors and exceeds this requirement with four monitors.

The  $PM_{10}$  annual measured mean concentration data were evaluated from 2017-2019 to determine network collocated QC sites, shown in AMNP Appendix J, Table 2. The  $PM_{10}$  measurement concentrations at Clinton and Socorro Hueco had 2019 annual mean concentrations among the highest in the network and continue to satisfy collocation QC requirements. AMNP Appendix J, Table 1 lists the current collocated QC monitors.

#### **Previously Recommended Changes**

The TCEQ 2019 AMNP recommended adding a PM<sub>10</sub> continuous federal equivalent method (FEM) monitor to Houston North Wayside, approved by the EPA in a letter dated November 4, 2019. This monitor is expected to be operational in April 2021. The TCEQ recommended deploying a PM<sub>10</sub> federal reference method (FRM) monitor to a new air monitoring site, Dallas Bexar Street, in the Dallas County southern sector industrial corridor to provide improved spatial coverage and air quality information. The new Dallas Bexar Street air monitoring site and PM<sub>10</sub> monitor, approved by the EPA in a letter dated September 2, 2020, are expected be operational Spring 2021.

Due to industrial and population growth in the Gregory-Portland area north of Corpus Christi, the TCEQ continues to evaluate the potential placement of a particulate matter monitor in San Patricio County, as previously recommended.

The TCEQ 2020 AMNP recommended decommissioning the Houston Westhollow and the Edinburg East Freddy Gonzales Drive PM<sub>10</sub> FRM monitors. The EPA approved the requests in a letter dated October 22, 2020, and both monitors were decommissioned on October 31, 2020.

## **Regulatory PM<sub>10</sub> Monitoring Network Changes**

The TCEQ evaluated the current  $PM_{10}$  monitoring network and determined the existing  $PM_{10}$  network meets all federal monitoring requirements; therefore, no changes are recommended.

## Particulate Matter of 2.5 Micrometers or Less

The TCEQ particulate matter of 2.5 micrometers or less in diameter ( $PM_{2.5}$ ) monitoring network includes a combination of non-continuous FRM, continuous FEM, and non-NAAQS comparable monitors designed to meet area, regional background, regional transport, NCore, and near-road network requirements, as discussed further in this section. The TCEQ is required to operate 28 FRM, FEM, coarse particulate matter ( $PM_{10-2.5}$ ), or speciated  $PM_{2.5}$  monitors and exceeds the requirements with 71 monitors. An analysis of  $PM_{2.5}$  monitoring and siting requirements using the most recent 2019 U.S. Census Bureau population estimates and 2019  $PM_{2.5}$  design values is provided in AMNP Appendix K. AMNP Appendix B lists the air monitoring sites where  $PM_{2.5}$  is measured.

## **Monitoring Requirements**

#### General and Continuous Requirements

Title 40 CFR Part 58, Appendix D, Section 4.7 requires PM<sub>2.5</sub> monitoring in MSAs with populations of 500,000 or more persons and in MSAs with lower populations if measured PM<sub>2.5</sub> design values for an MSA equal or exceed 85% of the NAAQS. Monitoring requirements are outlined in Table 5. Under 40 CFR Part 58, Appendix D, Section 4.7.2, the TCEQ must operate continuous PM<sub>2.5</sub> monitors equal to at least one-half the required number of SLAMS-required sites. At least one of these required continuous monitors in each MSA must be collocated with one of the required FRM/FEM monitors unless the FEM monitor is itself a continuous monitor. Additionally, 40 CFR Part 58, Appendix D, Section 4.7.3 requires each state to install and operate at least one PM<sub>2.5</sub> site to monitor for regional background and at least one PM<sub>2.5</sub> site to monitor regional transport. AMNP Appendix B lists monitors meeting the regional background and transport requirements.

MSA population	PM <sub>2.5</sub> monitors required for MSAs with most recent 3-year design value ≥85% of any PM <sub>2.5</sub> NAAQS	PM <sub>2.5</sub> monitors required for MSAs with most recent 3-year design value <85% of any PM <sub>2.5</sub> NAAQS	
>1,000,000	3	2	
500,000 to 1,000,000	2	1	
50,000 to <500,000	1	0	

Table 5: Particulate Matter of 2.5 Micrometers or Less Minimum Monitoring Requirements

< - less than

> – greater than  $\geq$  – greater than or equal to

≥ – greater tha % - percent

MSA – metropolitan statistical area

NAAQS – National Ambient Air Quality Standards

 $PM_{2.5}$  – particulate matter of 2.5 micrometers or less in diameter

#### NCore Monitoring Requirements

Title 40 CFR Part 58, Appendix D, Section 3 requires  $PM_{2.5}$  FRM mass,  $PM_{2.5}$  FEM mass continuous, speciated  $PM_{2.5}$ , and  $PM_{10\cdot2.5}$  mass monitoring at all NCore sites. The TCEQ meets this requirement with  $PM_{2.5}$  monitors at the three NCore sites listed in Table 1.

#### Near-Road PM<sub>2.5</sub> Requirements

Title 40 CFR Part 58, Appendix D, Section 4.7.1(b)(2) requires collocating one FRM or FEM  $PM_{2.5}$  monitor with one required near-road  $NO_2$  monitor in CBSAs with populations of 1,000,000 or more persons. The TCEQ meets this requirement with  $PM_{2.5}$  monitors at the near-road sites listed below.

- DFW CBSA: Fort Worth California Parkway North
- Houston CBSA: Houston North Loop
- San Antonio CBSA: San Antonio Interstate 35
- Austin CBSA: Austin North Interstate 35

#### **Collocation Requirements**

Title 40 CFR Part 58, Appendix A, Section 3.2.3 requires a primary quality assurance organization to select 15% of the  $PM_{2.5}$  primary monitors of each method designation (FRM or FEM) for collocated QC sampling. Based on the current network of 11  $PM_{2.5}$  FRM monitors, the TCEQ is required to operate two collocated  $PM_{2.5}$  FRM (FRM/FRM collocation) monitors and meets this requirement with two monitors. For each primary monitor designated as an FEM, 50% of the monitors designated for collocation shall be collocated with an FRM (FRM/FEM) and 50% shall be collocated with a monitor having the same method designation as the FEM primary monitor (FEM/FEM). Fifty percent of the collocated QC monitors must be deployed at sites with annual average or daily concentrations estimated to be within plus or minus 20% of either the annual or 24-hour standard.

Based on the current  $PM_{2.5}$  network of 34 FEM monitors, the TCEQ is required to operate five collocated QC monitors pursuant to 40 CFR Part 58, Appendix A, Section 3.2.3.2(b). The TCEQ meets this requirement with two same method collocated  $PM_{2.5}$ (FEM/FEM collocation) monitors and three different method collocated  $PM_{2.5}$  (FEM/FRM collocation) monitors with  $PM_{2.5}$  monitors at the five air monitoring sites listed in Table 6. Information regarding the  $PM_{2.5}$  collocation designations is listed in AMNP Appendix B.

Table 6: Particulate Matter of 2.5 Micrometers or Less FEM Quality Control
Collocation Monitor Types and Site Names

Primary Monitor Type and Method Code	QC Collocated Monitor Type and Method Code	Site Name
PM <sub>2.5</sub> FEM, method 209	PM <sub>2.5</sub> FRM, method 141	Austin Webberville Road
PM <sub>2.5</sub> FEM, method 209	PM <sub>2.5</sub> FEM, method 209	Corpus Christi Huisache
PM <sub>2.5</sub> FEM, method 209	PM <sub>2.5</sub> FRM, method 141	San Antonio Northwest
PM <sub>2.5</sub> FEM, method 209	PM <sub>2.5</sub> FEM, method 209	Fort Worth California Parkway North
PM <sub>2.5</sub> FEM, method 209	PM <sub>2.5</sub> FRM, method 141	Houston Aldine

FEM – federal equivalent method

FRM – federal reference method

PM<sub>2.5</sub> – particulate matter of 2.5 micrometers or less

QC – quality control

#### Previously Recommended Changes

The TCEQ 2019 AMNP recommended several  $PM_{2.5}$  changes that were approved by the EPA in a letter dated November 4, 2019. Reallocation of the discontinued Houston Aldine  $PM_{2.5}$  speciation monitor to the Clinton Drive air monitoring site is expected to be operational soon.

The TCEQ Austin Northwest  $PM_{2.5}$  monitor was temporarily shut down on February 18, 2020, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes. The air monitoring station was relocated one-tenth of a mile to Austin North Hills Drive on October 15, 2020, and the  $PM_{2.5}$  non-NAAQS comparable monitor was upgraded to a FEM continuous monitor on that date. The TCEQ recommended deploying a  $PM_{2.5}$  non-NAAQS comparable monitor to a new air monitoring site, Dallas Bexar Street, in the Dallas County southern sector industrial corridor to provide improved spatial coverage and air quality information. The new Dallas Bexar Street air monitoring site and  $PM_{2.5}$  monitor, approved by the EPA in a letter dated September 2, 2020, are expected to be operational Spring 2021. The TCEQ recommended deploying a  $PM_{2.5}$  continuous monitor to Houston North Wayside, which was approved by the EPA in a letter dated November 4, 2019. This monitor is expected to be operational in April 2021.

The TCEQ 2020 AMNP recommended several PM<sub>2.5</sub> changes approved by the EPA in a letter dated October 20, 2020. The Clinton and Houston Aldine collocated QC PM<sub>2.5</sub> FRM monitor's sampling frequency were reduced to 1-in-12 days, effective January 5, 2021, and January 1, 2021, respectively. The TCEQ aligned the Dona Park PM<sub>2.5</sub> speciation network affiliation from Chemical Speciation Network for Supplemental Speciation Stations to SPM, reflecting current data usage, effective January 1, 2021.

The TCEQ continues to replace aging  $PM_{2.5}$  FRM non-continuous monitors and non-NAAQS comparable  $PM_{2.5}$  continuous monitors ( $PM_{2.5}$  TEOMs) with  $PM_{2.5}$  FEM continuous monitors, as indicated and approved in previous AMNPs. The status of approved changes is listed in Table 7.

Site Name	Monitor(s) Replaced	New Monitor	Action	Status
Austin North Hills Drive	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Relocation and method code change	Completed October 15, 2020
Houston Westhollow	PM <sub>10</sub>	PM <sub>2.5</sub> FEM continuous	New PM <sub>2.5</sub> monitor	Completed January 19, 2021
Dallas Bexar Street	None – new monitor	PM <sub>2.5</sub> TEOM	Deploy	Expected Spring 2021
Houston North Wayside	None – new monitor	PM <sub>2.5</sub> FEM continuous	Deploy	April 2021
Ascarate Park Southeast	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Clinton	PM <sub>2.5</sub> speciation	Deploy	Deploy	Pending
Clinton	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Conroe Relocated	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Convention Center	PM <sub>2.5</sub> FRM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Corsicana Airport	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Dona Park	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Edinburg East Freddy Gonzalez	PM <sub>2.5</sub> FRM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
El Paso UTEP	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Houston North Loop	PM <sub>2.5</sub> FRM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Karnack	PM <sub>2.5</sub> FRM and PM <sub>2.5</sub> TEOM pair	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Kaufman	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending

Table 7: Particulate Matter of 2.5 Micrometers or Less Summary of Approved Changes

Site Name	Monitor(s) Replaced	New Monitor	Action	Status
Midlothian OFW	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Seabrook Friendship Park	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending
Socorro Hueco	PM <sub>2.5</sub> TEOM	PM <sub>2.5</sub> FEM continuous	Method code change	Pending

FEM – federal equivalent method

FRM - federal reference method

OFW - Old Fort Worth

PM<sub>2.5</sub> – particulate matter of 2.5 micrometers or less in diameter

TEOM – tapered element oscillating microbalance

UTEP - University of Texas at El Paso

## **Regulatory** PM<sub>2.5</sub> Monitoring Network Changes

The TCEQ continues to replace aging  $PM_{2.5}$  non-NAAQS comparable equipment with new FEM monitors to provide continuous NAAQS comparable data to the public that is suitable for Air Quality Index reporting and the EPA's AirNow webpage. The increase in NAAQS equivalent monitors optimizes the monitoring resources in affected MSAs. The TCEQ recommends deploying QC collocated FEM monitors at the three sites described in Table 8 to meet the 15% collocation requirements as primary FEM monitor counts reach thresholds. The TCEQ considered  $PM_{2.5}$  network monitors' annual mean, 24-hour concentrations, and area spatial coverage with these recommendations.

Site Name	Current Primary Monitor	Recommendation	Recommended Primary Monitor Method Code	Recommended QC Collocated Method Code	Estimated Completion Date
Port Arthur Memorial School	PM <sub>2.5</sub> FEM	Add same method PM <sub>2.5</sub> FEM continuous QC collocated monitor	209	209	August 31, 2021
El Paso UTEP	PM <sub>2.5</sub> FRM	Deploy PM <sub>2.5</sub> FEM and change existing PM <sub>2.5</sub> FRM to QC collocated	209	141	December 31, 2021
Mission	PM <sub>2.5</sub> FEM	Add same method PM <sub>2.5</sub> FEM continuous QC collocated monitor	209	209	December 31, 2022

#### Table 8: Particulate Matter of 2.5 Micrometers or Less Recommendations

FEM – federal equivalent method

FRM – federal reference method

PM<sub>2.5</sub> - particulate matter of 2.5 micrometers or less in diameter

QC – quality control

UTEP - University of Texas at El Paso

## Volatile Organic Compounds

The TCEQ volatile organic compound (VOC) network is designed to meet PAMS requirements, as discussed further in this section. The TCEQ is required to operate two VOC monitors and exceeds this requirement with 12 monitors. For purposes of meeting federal PAMS requirements, the TCEQ VOC network includes eight automated gas chromatograph (autoGC) continuous monitors and four non-continuous canister monitors. AMNP Appendix L, Table 1 lists the required and current VOC monitors in each Texas CBSA. AMNP Appendix B lists the air monitoring sites where VOCs are measured.

## **Monitoring Requirements**

Title 40 CFR Part 58, Appendix D, Section 5 requires state agencies to collect speciated VOC hourly- averaged measurements at NCore sites located in CBSAs with a population of 1,000,000 or more persons as part of the PAMS network requirements. The TCEQ exceeds PAMS required VOC monitoring requirements with autoGCs at the three NCore sites listed in Table 1 and at five other sites as listed in AMNP Appendix B.

#### **Previously Recommended Changes**

The TCEQ 2020 AMNP recommended no changes to the VOC monitoring network.

## **Regulatory VOC Monitoring Network Changes**

The TCEQ evaluated the current VOC monitoring network and determined the existing VOC network meets all federal monitoring requirements; therefore, no changes are recommended.

## <u>Carbonyls</u>

The TCEQ carbonyl monitoring network is designed to meet PAMS requirements, as discussed further in this section. The TCEQ is required to operate two carbonyl monitors and exceeds this requirement with four monitors. AMNP Appendix L, Table 2 lists the required and current carbonyl monitors in each Texas CBSA. AMNP Appendix B lists the air monitoring sites where carbonyls are measured.

#### **Monitoring Requirements**

Title 40 CFR Part 58, Appendix D, Section 5 requires state agencies to collect PAMS carbonyl measurements with three eight-hour averaged samples taken every third day at each NCore site located in a CBSA with a population of 1,000,000 or more persons. The TCEQ exceeds carbonyl monitoring requirements with carbonyl monitors at the two required PAMS sites listed in Table 1 and at two other sites listed in AMNP Appendix B.

## **Previously Recommended Changes**

The TCEQ 2020 AMNP recommended no changes to the carbonyl monitoring network.

## **Regulatory Carbonyl Monitoring Network Changes**

The TCEQ evaluated the current carbonyl monitoring network and determined the existing carbonyl network meets all federal monitoring requirements; therefore, no changes are recommended.

## <u>Meteorology</u>

The TCEQ meteorology monitoring network includes surface meteorology parameters (solar radiation, wind speed, wind direction, and temperature), upper air measurements (mixing height), and other meteorological parameters, as discussed further in this section. Surface meteorology is measured at most air monitoring stations and additional meteorology parameters are required at PAMS monitoring stations. All meteorology monitors in the TCEQ network are included in AMNP Appendix B.

## **Monitoring Requirements**

Title 40 CFR Part 58, Appendix D, Section 5 requires state agencies to collect PAMS surface and upper air meteorology measurements at all NCore sites in CBSAs with a population of 1,000,000 or more persons. Meteorological PAMS measurements at the required PAMS sites (or alternatively approved waiver locations) include measurements of wind speed, wind direction, outdoor temperature, atmospheric pressure, relative humidity, precipitation, hourly averaged mixing-height, solar radiation, and ultraviolet radiation. The TCEQ meets these meteorological monitoring requirements with measurements collected at the Dallas Hinton, Houston Deer Park #2, and La Porte Airport sites.

## **Previously Recommended Changes**

The TCEQ 2019 AMNP recommended several meteorology monitoring changes that were approved by the EPA in a letter dated November 4, 2019. The TCEQ Austin Northwest wind speed, wind direction, and outdoor temperature monitors were temporarily shut down on February 18, 2020, due to the property owner's revocation of the TCEQ's use of the property for ambient air monitoring purposes. The air monitoring station and the meteorological monitors were relocated one-tenth of a mile to Austin North Hills Drive on October 15, 2020. The site relocation was approved by the EPA in a letter dated April 10, 2020. The TCEQ recommended deploying wind speed, wind direction, and outdoor temperature monitors to a new air monitoring site, Dallas Bexar Street, in the Dallas County southern sector industrial corridor. The new Dallas Bexar Street air monitoring site and wind speed, wind direction, and outdoor temperature dated September 2, 2020, and are expected Spring 2021. The TCEQ San Antonio Northwest ceilometer is expected to be operational Fall 2021.

The TCEQ 2020 AMNP recommended deploying wind speed, wind direction, and outdoor temperature monitors to a second near-road monitoring station in the San Antonio MSA to meet the near-road requirements. The recommendation was approved by the EPA in a letter dated April 10, 2020. The TCEQ continues to explore possible

new sites adjacent to the highest possible ranked road segment and expects to deploy the site and meteorological monitors before December 31, 2021.

# **Additional Monitoring Considerations**

The TCEQ reviews its ambient air quality monitoring network annually and created this AMNP to demonstrate how Texas is meeting or will meet federal air monitoring requirements specified in 40 CFR Part 58 and its appendices. Additional ambient air monitoring requested during previous AMNP public inspection and comment periods continue to be evaluated for potential inclusion in the TCEQ ambient air monitoring network. Any future implementation of these monitoring considerations may be included as part of the TCEQ federal air monitoring network or as state-initiative special studies.

The TCEQ is considering the following proposed air monitors based on previously received AMNP comments. These monitoring proposals are under consideration and are subject to change. Details regarding the potential monitors under consideration are included in this plan and summarized in Appendix M to solicit further public comment.

- Deployment of a PM<sub>2.5</sub> FEM continuous monitor to the existing Houston Bayland Park site.
- Establishment of a new air monitoring site in the Houston Fifth Ward to measure VOCs, PM<sub>2.5</sub> continuous, and meteorological parameters.
- Establishment of a new air monitoring site in the Houston Pleasantville neighborhood area to measure PM<sub>2.5</sub> continuous and meteorological parameters.
- Establishment of a new air monitoring site in the Gregory-Portland area to measure VOCs, PM<sub>2.5</sub> continuous, and meteorological parameters; the recommendation to measure PM<sub>10</sub> is no longer under consideration.

# Conclusion

As discussed in this report, the TCEQ has evaluated all federal requirements for ambient air quality monitoring and reviewed the TCEQ ambient air quality monitoring network. After consideration of the federal regulations, 2019 U.S. Census Bureau population data, and 2019 design values, the TCEQ has determined that it will meet or exceed all monitoring requirements with the above-mentioned recommendations for the next calendar year.

# Appendix A

# 2021 Summary of Proposed Network Changes

Texas Commission on Environmental Quality 2021 Annual Monitoring Network Plan



## Appendix A: 2021 Summary of Proposed Network Changes

Air Monitoring Site Name	Proposed Action	Parameter(s)	Estimated Completion Date
Port Arthur Memorial School	Deploy QC collocated monitor	PM <sub>2.5</sub> FEM continuous	August 31, 2021
El Paso UTEP	Deploy PM <sub>2.5</sub> FEM primary monitor and change existing PM <sub>2.5</sub> FRM network designation to QC collocated, sample every 12 <sup>th</sup> day	PM <sub>2.5</sub> FRM and FEM continuous	December 31, 2021
Mission	Deploy QC collocated monitor	PM <sub>2.5</sub> FEM continuous	December 31, 2022
San Antonio Gardner Road	Decommission monitor	SO <sub>2</sub>	December 31, 2021

FEM – federal equivalent method

FRM – federal reference method

PM<sub>2.5</sub> - particulate matter of 2.5 micrometers or less in diameter

QC - quality control SO<sub>2</sub> - sulfur dioxide

UTEP – University of Texas at El Paso

# Appendix B

# Ambient Air Monitoring Network Site List

Texas Commission on Environmental Quality 2021 Annual Monitoring Network Plan



Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
		Amarillo 24th	4205 NE 24th			Pulsed			Population			
Amarillo	483751025	Avenue	Avenue, Amarillo	SO2	SLAMS	Fluorescence	Continuous	Suburban	Exposure	Neighborhood	35.23674	-101.78741
		Amarillo 24th	4205 NE 24th	Temperature		Aspirated			General,			
Amarillo	483751025		Avenue, Amarillo	•	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	35.23674	-101.78741
				,		Potentiometer						
A	400751005	Amarillo 24th	4205 NE 24th	10/:	CDM	Cup	Continuous	Cubuubau	General,	Naishhaukaad	25 22674	101 70741
Amarillo	483751025	Avenue	Avenue, Amarillo 6500 Amarillo	wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	35.23674	-101.78741
			Blvd West,			Beta		Urban and	Population			
Amarillo	483750320	Amarillo A&M	Amarillo	PM2.5 (Beta)	SPM	Attenuation	Continuous	Center City	Exposure	Urban Scale	35.20159	-101.90927
			Folsom Rd. & El			D. J. et al.						
Amonillo	400751077	Amarillo Xcel El	,	602	CLAMC	Pulsed	Continuous	Durrol	Course Oriented	Naiabbarbaad		101 74100
Amarillo	483751077	Rancho	Amarillo Folsom Rd, & El	S02	SLAMS	Fluorescence	Continuous	Rural	Source Oriented	Neighbornood	35.31650	-101.74180
		Amarillo Xcel El		Temperature		Aspirated			General,			
Amarillo	483751077		Amarillo	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	35.31650	-101.74180
			Folsom Rd. & El			Potentiometer						
	400754077	Amarillo Xcel El	•		6.D.M	Cup	<b>.</b>		General,			
Amarillo Austin-Round	483751077	Rancho	Amarillo 12200 Lime	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	35.31650	-101.74180
Rock-		Austin Audubon							Population			
Georgetown	484530020		Leander	03	SLAMS	UV Photometric	Continuous	Rural	Exposure	Neighborhood	30.48316	-97.87508
Austin-Round		·	12200 Lime									
Rock-		Austin Audubon	,			HiVol	24 Hours;		Population			
Georgetown Austin-Round	484530020	Society	Leander 12200 Lime	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Rural	Exposure	Neighborhood	30.48316	-97.87508
Rock-		Austin Audubon		Solar					Population			
Georgetown	484530020		Leander	Radiation	SPM	Photovoltaic	Continuous	Rural	Exposure	Urban Scale	30.48316	-97.87508
Austin-Round	101000020	,	12200 Lime								00110010	57107000
Rock-		Austin Audubon	Creek Rd,	Temperature		Aspirated			Population			
Georgetown	484530020	Society	Leander	(Outdoor)	SPM	Thermister	Continuous	Rural	Exposure	Urban Scale	30.48316	-97.87508
Austin-Round Rock-		Austin Audubon	12200 Lime			Potentiometer Cup			Dopulation			
Georgetown	484530020		Leander	Wind	SPM	Anemometer	Continuous	Rural	Population Exposure	Urban Scale	30.48316	-97.87508
Austin-Round	101330020	Society	Leander	Wind	5111	Anemoniecer	continuous	Kurui	Exposure	orban Scale	50.10510	57.07500
Rock-		Austin North	3824 North Hills			Chemilumine-			Population			
Georgetown Austin-Round	484530014	Hills Drive	Dr, Austin	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Urban Scale	30.35494	-97.76180
Rock-		Austin North	3824 North Hills						Population			
Georgetown	484530014		Dr, Austin	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	30.35494	-97.76180
Austin-Round					-					<u> </u>		
Rock-		Austin North	3824 North Hills			Beta			Population			
Georgetown	484530014	Hills Drive	Dr, Austin	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Exposure	Neighborhood	30.35494	-97.76180
Austin-Round Rock-		Austin North	3824 North Hills			Pulsed			Population			
Georgetown	484530014		Dr, Austin	S02	SLAMS	Fluorescence	Continuous	Suburban	Exposure	Urban Scale	30.35494	-97.76180
eton getomi	10100014				50,110		201101003	Suburburi			55155154	5,1,0100

Texas MSA -	AQS Site		Address -	Sampler			Operating	Location	Monitoring			
CBSA	Number	Site Name	Location	Туре	Network	Methods	Schedule	Setting	Objective	Spatial Scale	Latitude	Longitude
Austin-Round										-	· · · · ·	
Rock-		Austin North	3824 North Hills	Temperature		Aspirated			General,			
Georgetown	484530014	Hills Drive	Dr, Austin	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	30.35494	-97.76180
Austin-Round						Potentiometer						
Rock-		Austin North	3824 North Hills			Cup			General,			
Georgetown	484530014	Hills Drive	Dr, Austin	Wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	30.35494	-97.76180
Austin-Round			8912 N IH 35						Max Productor			
Rock-		Austin North	service road southbound,		Near Road,	Gas Filter		Urban and	Max Precursor Emissions			
Georgetown	101521060	Interstate 35	Austin	со	SLAMS	Correlation	Continuous	Center City	Impact	Microscale	30.35386	-97.69166
Georgetown	404551000	Interstate 55	8912 N IH 35	0	JLAM5	Correlation	Continuous	Center City	Impact	MICIOSCAIE	30.33360	-97.09100
Austin-Round			service road						Max Precursor			
Rock-		Austin North	southbound,		Near Road,	Chemilumine-		Urban and	Emissions			
Georgetown	484531068	Interstate 35	Austin	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Impact	Microscale	30.35386	-97.69166
<u> </u>			8912 N IH 35	-, -, -				,				
Austin-Round			service road						Max Precursor			
Rock-		Austin North	southbound,		Near Road,	Beta		Urban and	Emissions			
Georgetown	484531068	Interstate 35	Austin	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Impact	Microscale	30.35386	-97.69166
			8912 N IH 35									
Austin-Round			service road	<b>-</b> .					Max Precursor			
Rock-	404504060	Austin North	southbound,	Temperature	0.004	Aspirated	<b>.</b>	Urban and	Emissions			07 60466
Georgetown	484531068	Interstate 35	Austin 8912 N IH 35	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	30.35386	-97.69166
Austin-Round			service road			Potentiometer			Max Precursor			
Rock-		Austin North	southbound,			Cup		Urban and	Emissions			
Georgetown	484531068	Interstate 35	Austin	Wind	SPM	Anemometer	Continuous	Center City	Impact	Microscale	30.35386	-97.69166
Austin-Round	101001000	Interstate 55	2600B	<b>Wind</b>	0.11	, and motified en	continuous		Impace	Theroscare	30133300	57105100
Rock-		Austin	Webberville Rd,			HiVol	24 Hours;	Urban and	Population			
Georgetown	484530021	Webberville Rd	Austin	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Center City	Exposure	Neighborhood	30.26320	-97.71289
Austin-Round			2600B									
Rock-		Austin	Webberville Rd,			Beta		Urban and	Population			
Georgetown	484530021	Webberville Rd		PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Exposure	Neighborhood	30.26320	-97.71289
Austin-Round		A	2600B		QA	Communication CDM	24.11	I block and	De la la la la			
Rock-	404520021	Austin	Webberville Rd,		Collocated, SLAMS	Sequential FRM		Urban and	Population	N a i a la la a ula a a d	20 26220	07 71 200
Georgetown Austin-Round	484530021	Webberville Rd	2600B	PM2.5 (FRM)	SLAMS	Gravimetric	1/12 Days	Center City	Exposure	Neighborhood	30.26320	-97.71289
Rock-		Austin	Webberville Rd,	Temperature		Aspirated		Urban and	Population			
Georgetown	484530021	Webberville Rd	,	(Outdoor)	SPM	Thermister	Continuous	Center City	Exposure	Neighborhood	30,26320	-97.71289
Austin-Round	101550021	Trebber ville rid	2600B	(00000)	0.11	Potentiometer	continuous		Exposure	Reighbornood	50.20520	57.71205
Rock-		Austin	Webberville Rd,			Cup		Urban and	Population			
Georgetown	484530021	Webberville Rd	Austin	Wind	SPM	Anemometer	Continuous	Center City	Exposure	Neighborhood	30.26320	-97.71289
			1086 Vermont							-		
Beaumont-Port		Beaumont	Avenue,		PAMS,	Chemilumine-			Population			
Arthur	482450009	Downtown	Beaumont	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Neighborhood	30.03642	-94.07106
									Max Precursor			
			1000.1						Emissions			
Decision of D. 1		Deeuwerst	1086 Vermont		DAMO				Impact;			
Beaumont-Port	402450000	Beaumont	Avenue,	02	PAMS,		Cantinua	Culture	Population	Naishhauha - I	20.02642	04.07100
Arthur	482450009	Downtown	Beaumont	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	30.03642	-94.07106

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			1086 Vermont									
Beaumont-Port		Beaumont	Avenue,			Pulsed			Population			
Arthur	482450009	Downtown	Beaumont	S02	SLAMS	Fluorescence	Continuous	Suburban	Exposure	Neighborhood	30.03642	-94.07106
			1086 Vermont						Max Precursor			
Beaumont-Port		Beaumont	Avenue,	Solar	PAMS,				Emissions			
Arthur	482450009	Downtown	Beaumont	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Impact	Neighborhood	30.03642	-94.07106
Beaumont-Port Arthur	482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Speciated VOC (AutoGC)	PAMS, SLAMS	GC	Continuous	Suburban	Max Precursor Emissions Impact; Population Exposure	Neighborhood	30.03642	-94.07106
			1086 Vermont						Max Precursor			
Beaumont-Port	400450000	Beaumont	Avenue,	Temperature	PAMS,	Aspirated	<b>A</b> 11		Emissions		20.02642	04.074.06
Arthur	482450009	Downtown	Beaumont	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Impact	Neighborhood	30.03642	-94.07106
Beaumont-Port Arthur	482450009	Beaumont	1086 Vermont Avenue, Beaumont	TNMOC (AutoGC)	PAMS, SLAMS	GC	Continuous	Suburban	Max Precursor Emissions Impact; Population Exposure	Neighborhood	30.03642	-94.07106
	102 130003	Downcown	1086 Vermont	(//////////////////////////////////////	36/(13	Potentiometer	continuous	Suburban	Max Precursor	Neighbornood	50.05012	51.07100
Beaumont-Port		Beaumont	Avenue,		PAMS,	Cup			Emissions			
Arthur	482450009	Downtown	Beaumont	Wind	SLAMS	Anemometer	Continuous	Suburban	Impact	Neighborhood	30.03642	-94.07106
Beaumont-Port Arthur	482450022	Hamshire	12552 Second St, Not In A City	NO/NO2/NOx	SLAMS	Chemilumine- scence	Continuous	Suburban	General, Background; Regional Transport General,	Neighborhood, Urban Scale	29.86396	-94.31780
Beaumont-Port Arthur	482450022	Hamshire	12552 Second St, Not In A City	03	SLAMS	UV Photometric	Continuous	Suburban	Background; Regional Transport	Urban Scale	29.86396	-94.31780
Regument Dort			12552 Caraad			Doto			Demulation			
Beaumont-Port Arthur	482450022	Hamehira	12552 Second	PM2.5 (Beta)	SPM	Beta Attenuation	Continuous	Cuburban	Population	Noighborhood	20.96206	04 21700
Arthu	482450022	папіянне	St, Not In A City	PMZ.5 (Deld)	58191	Allenuation	Continuous	Suburban	Exposure	Neighborhood	29.86396	-94.31780
Beaumont-Port			12552 Second	Solar					General,			
Arthur	482450022	Hamshire	St, Not In A City	Radiation	SPM	Photovoltaic	Continuous	Suburban	Background	Neighborhood	29.86396	-94.31780
	102 100022	. amoni e	2., in / elty		5	. notovoltale	Sontinuous	Suburbuit	Sacing. Cana		25.000500	5 1151700
Beaumont-Port Arthur	482450022	Hamshire	12552 Second St, Not In A City	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Suburban	General, Background	Neighborhood	29.86396	-94.31780
						Potentiometer						
Beaumont-Port	402450022	Hannah tan	12552 Second	14/2I	CDM	Cup	C. I.	C. h. h.	General,	No. to be to be a set	20.00200	04 21 700
Arthur	482450022		St, Not In A City End of 90th Street at Jefferson County	wina	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	29.86396	-94.31780
Beaumont-Port		Jefferson	Airport, Port		PAMS,			<b>.</b>	General,			
Arthur	482450018	County Airport	Arthur	Precipitation	SLAMS	Rain Gauge	Continuous	Suburban	Background	Neighborhood	29.94280	-94.00077

Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude	Longitude
CBSA	Number		Location End of 90th	Туре			Schedule	Setting	Objective			
Beaumont-Port	402450010	Jefferson	Street at Jefferson County Airport, Port	Temperature	PAMS,	Aspirated			General,	N	20.04200	04 00077
Arthur	482450018	County Airport	Arthur End of 90th	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Neighborhood	29.94280	-94.00077
Beaumont-Port Arthur	482450018	Jefferson County Airport	Street at Jefferson County Airport, Port	Wind	PAMS, SLAMS	Potentiometer Cup Anemometer	Continuous	Suburban	General, Background	Neighborhood	29.94280	-94.00077
		· · ·	1800 N. 18th			Barometric			Max Precursor			
Beaumont-Port		Nederland High	•	Barometric	PAMS,	pressure			Emissions			
Arthur	482451035	School	Nederland 1800 North 18th	Pressure	SLAMS	transducer	Continuous	Suburban	Impact	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School		Dew Point	SPM	Derived at site	Continuous	Suburban	Population Exposure	Neighborhood	29.97893	-94.01087
Beaumont-Port		Nederland High	1800 North 18th Street		PAMS,	Chemilumine-			Max Precursor Emissions Impact; Population			
Arthur	482451035	5	Nederland	NO/NO2/NOx	,	scence	Continuous	Suburban	Exposure	Neighborhood	29.97893	-94.01087
Beaumont-Port		Nederland High	1800 North 18th	,,	PAMS,				Population			
Arthur	482451035	School	Nederland	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School	Nederland	Relative Humidity	PAMS, SLAMS	Humidity Sensor	Continuous	Suburban	Max Precursor Emissions Impact	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School	1800 North 18th Street, Nederland	Solar Radiation	PAMS, SLAMS	Photovoltaic	Continuous	Suburban	Max Precursor Emissions Impact	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School	1800 North 18th Street, Nederland	Speciated VOC (AutoGC)	PAMS, SLAMS	GC	Continuous	Suburban	Max Precursor Emissions Impact; Population Exposure	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School	1800 North 18th Street, Nederland	Temperature (Outdoor)	PAMS, SLAMS	Aspirated Thermister	Continuous	Suburban	Max Precursor Emissions Impact	Neighborhood	29.97893	-94.01087
Beaumont-Port	100 151 005	Nederland High	,	TNMOC	PAMS,		Carling		Max Precursor Emissions Impact; Population	Netcher	22.2752	04.04007
Arthur	482451035	School	Nederland 1800 North 18th	(AutoGC)	SLAMS	GC	Continuous	Suburban	Exposure Max Precursor	Neighborhood	29.97893	-94.01087
Beaumont-Port Arthur	482451035	Nederland High School	Street, Nederland	UV Radiation	PAMS, SLAMS	Photovoltaic	Continuous	Suburban	Emissions Impact	Neighborhood	29.97893	-94.01087
Beaumont-Port	402451025	Nederland High	•	Wind	PAMS,	Potentiometer Cup	Continuous	Cuburban	Max Precursor Emissions	Noighborbood	20.07902	04 01007
Arthur	482451035	301001	Nederland	Wind	SLAMS	Anemometer	Continuous	Suburball	Impact	Neighborhood	29.97893	-94.01087

	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Beaumont-Port Arthur	483611083	Orange 1st Street	2239 1st Street, Orange	SO2	SLAMS	Pulsed Fluorescence	Continuous	Urban and Center City	Source Oriented	Neighborhood	30.15368	-93.72590
Beaumont-Port Arthur	483611083	Orange 1st Street	2239 1st Street, Orange	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Urban and Center City	General, Background	Neighborhood	30.15368	-93.72590
Beaumont-Port Arthur	483611083	Orange 1st Street Port Arthur	2239 1st Street, Orange 2200 Jefferson	Wind	SPM	Cup Anemometer	Continuous	Urban and Center City	General, Background	Neighborhood	30.15368	-93.72590
Beaumont-Port Arthur	482450021	Memorial	Drive, Port Arthur	PM2.5 (Beta)	SPM	Beta Attenuation	Continuous	Suburban	Population Exposure	Neighborhood	29.92289	-93.90902
Beaumont-Port Arthur	482450011	Port Arthur West	623 Ellias Street, Port Arthur	03	SLAMS	UV Photometric	Continuous	Urban and Center City	Population Exposure	Neighborhood	29.89752	-93.99108
Beaumont-Port Arthur	482450011	Port Arthur West	623 Ellias Street, Port Arthur	S02	SLAMS	Pulsed Fluorescence	Continuous	Urban and Center City	Source Oriented	Neighborhood	29.89752	-93.99108
Beaumont-Port Arthur	482450011	Port Arthur West	623 Ellias Street, Port Arthur	Solar Radiation	SPM	Photovoltaic	Continuous	Urban and Center City	Population Exposure; Source Oriented	Neighborhood	29.89752	-93.99108
Beaumont-Port Arthur	482450011	Port Arthur West	623 Ellias Street, Port Arthur	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Urban and Center City	Source Oriented	Neighborhood	29.89752	-93.99108
Beaumont-Port Arthur	482450011	Port Arthur West	623 Ellias Street, Port Arthur	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Urban and Center City	Population Exposure; Source Oriented	Neighborhood	29.89752	-93.99108
Beaumont-Port Arthur	482451071	Port Arthur West 7th Street Gate 2	West 7th Street, Chevron Port Arthur Gate 2, Port Arthur	S02	SLAMS	Pulsed Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	29.84420	-93.96520
Beaumont-Port Arthur	482451071	Port Arthur West 7th Street Gate 2	West 7th Street, Chevron Port Arthur Gate 2, Port Arthur West 7th Street,	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	General, Background	Neighborhood	29.84420	-93.96520
Beaumont-Port Arthur	482451071	Port Arthur West 7th Street Gate 2	Chevron Port Arthur Gate 2, Port Arthur	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	29.84420	-93.96520
Beaumont-Port Arthur	482450101	SETRPC 40 Sabine Pass	5200 Mechanic, Not In A City	03	PAMS, SLAMS	UV Photometric	Continuous	Rural	Max Ozone Concentration Regional	Neighborhood	29.72793	-93.89408
Beaumont-Port Arthur	483611100	SETRPC 42 Mauriceville	Intersection of TX Hwys 62 & 12, Port Arthur	PM2.5 (Beta)	SPM	Beta Attenuation	Continuous	Suburban	Transport; Upwind Background	Regional Scale	30.19456	-93.86724

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Beaumont-Port Arthur	482450102	SETRPC 43 Jefferson Co Airport	Jefferson County Airport, Port Arthur	03	SPM	UV Photometric	Continuous	Suburban	Max Precursor Emissions Impact	Middle Scale	29.94275	-94.00068
Beaumont-Port Arthur	483611001	West Orange	2700 Austin Ave, West Orange	NO/NO2/NOx	SLAMS	Chemilumine- scence	Continuous	Urban and Center City	Population Exposure	Neighborhood	30.08526	-93.76134
Beaumont-Port Arthur	483611001	West Orange	2700 Austin Ave, West Orange	03	SLAMS	UV Photometric	Continuous	Urban and Center City	Population Exposure	Neighborhood	30.08526	-93.76134
Beaumont-Port Arthur	483611001	West Orange	2700 Austin Ave, West Orange	Solar Radiation	SPM	Photovoltaic	Continuous	Urban and Center City	Source Oriented	Neighborhood	30.08526	-93.76134
Beaumont-Port Arthur	483611001	West Orange	2700 Austin Ave, West Orange	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Urban and Center City	Source Oriented	Neighborhood	30.08526	-93.76134
Beaumont-Port Arthur	483611001	West Orange	2700 Austin Ave, West Orange	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Urban and Center City	Source Oriented	Neighborhood	30.08526	-93.76134
Big Spring*	482271072	Big Spring Midway	1218 North Midway Rd, Big Spring	SO2	SLAMS	Pulsed Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	32.28042	-101.40714
Big Spring*	482271072	Big Spring Midway	Spring	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	General, Background	Neighborhood	32.28042	-101.40714
Big Spring*	482271072	Big Spring Midway	1218 North Midway Rd, Big Spring	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	32.28042	-101.40714
Borger*	482331073	Borger FM 1559	19440 FM 1559, Borger	S02	SLAMS	Pulsed Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	35.67620	-101.44010
Borger*	482331073	Borger FM 1559	19440 FM 1559, Borger	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Rural	General, Background	Neighborhood	35.67620	-101.44010
Borger*	482331073	Borger FM 1559	19440 FM 1559, Borger	Wind	SPM	Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	35.67620	-101.44010
Brownsville- Harlingen	480610006	Brownsville	344 Porter Drive, Brownsville	PM2.5 (Beta)	SLAMS	Beta Attenuation	Continuous	Urban and Center City	Population Exposure	Regional Scale	25.89252	-97.49383
Brownsville- Harlingen	480610006	Brownsville	344 Porter Drive, Brownsville	Solar Radiation	SPM	Photovoltaic	Continuous	Urban and Center City	Highest Concentration	Neighborhood	25.89252	-97.49383
Brownsville- Harlingen	480610006	Brownsville	344 Porter Drive, Brownsville	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Urban and Center City	Population Exposure	Urban Scale	25.89252	-97.49383
Brownsville- Harlingen	480610006	Brownsville	344 Porter Drive, Brownsville	Wind	SPM	Cup Anemometer	Continuous	Urban and Center City	Highest Concentration	Neighborhood	25.89252	-97.49383

Texas MSA -	AQS Site		Address -	Sampler			Operating	Location	Monitoring			
	Number	Site Name	Location	Туре	Network	Methods	Schedule	Setting	Objective	Spatial Scale	Latitude	Longitude
			1602 W Teege								· · · ·	
Brownsville-	400614000	Harlingen	Avenue,	00			C. III		Population		26 20022	07 71000
Harlingen	480611023	Teege	Harlingen 1602 W Teege	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	26.20033	-97.71268
Brownsville-		Harlingen	Avenue,	Temperature		Aspirated			Population			
Harlingen	480611023	Teege	Harlingen	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	26.20033	-97.71268
			1602 W Teege			Potentiometer						
Brownsville-	400011000	Harlingen	Avenue,	<b>\A</b> /;	CDM	Cup	Cantinuau	Cubuubau	Population		26 20022	07 71200
Harlingen	480611023	Teege	Harlingen 333174 State	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	26.20033	-97.71268
		Isla Blanca	Park Road 100,									
Brownsville-		State Park	South Padre			Beta			Regional			
Harlingen	480612004	Road	Island	PM2.5 (Beta)	SPM	Attenuation	Continuous	Rural	Transport	Urban Scale	26.07110	-97.15770
		Isla Blanca	333174 State Park Road 100,									
Brownsville-		State Park	South Padre	Temperature		Aspirated			Regional			
Harlingen	480612004		Island	(Outdoor)	SPM	Thermister	Continuous	Rural	Transport	Regional Scale	26.07110	-97.15770
			333174 State	. ,								
Duarrantilla		Isla Blanca	Park Road 100,			Potentiometer			Designal			
Brownsville- Harlingen	480612004	State Park	South Padre Island	Wind (3m)	SPM	Cup Anemometer	Continuous	Rural	Regional Transport	Regional Scale	26.07110	-97.15770
nannigen	480012004	Rudu	1518110	wind (Sill)	SFM	Allemonieter	Continuous	Kuldi	Population	Regional Scale	20.07110	-97.13770
		Bryan							Exposure;			
College Station-		Finfeather	3670 Finfeather			Beta			Regional			
Bryan	480411086	Road Bryan	Road, Bryan	PM2.5 (Beta)	SPM	Attenuation	Continuous	Rural	Transport	Neighborhood	30.62833	-96.36278
College Station-		Finfeather	3670 Finfeather	Temperature		Aspirated			General,			
Bryan	480411086	Road	Road, Bryan	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	30.62833	-96.36278
		Bryan				Potentiometer						
College Station-	400411000	Finfeather	3670 Finfeather	MC and	CDM	Cup	C. III	Dural	General,		20 (2022	06 26270
Bryan	480411086	коаа	Road, Bryan	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	30.62833	-96.36278
College Station-		Franklin Oak	8127 Oak Grove			Pulsed						
Bryan	483951076	Grove	Road, Franklin	S02	SLAMS	Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	31.16889	-96.48194
Callera Chatian		Freedrike Oals	0127 Oals Carrie	<b>T</b>		A ensine trad			Comound			
College Station- Bryan	483951076	Franklin Oak	8127 Oak Grove Road, Franklin	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	General, Background	Neighborhood	31.16889	-96.48194
Dryan	405551070	GIOVE	Rodd, Frankin	(00000)	5114	Potentiometer	continuous	Kurur	Duckground	Neighborhood	51.10005	50.40154
College Station-		Franklin Oak	8127 Oak Grove			Cup			General,			
Bryan	483951076	Grove	Road, Franklin	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	31.16889	-96.48194
		Corpus Christi	3810 Huisache			Beta		Urban and	Population			
Corpus Christi	483550032		Street, Corpus Christi	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Population Exposure	Neighborhood	27.80449	-97.43155
			3810 Huisache	(2000)	QA					2.3.20.1.000	2,100119	
		Corpus Christi	Street, Corpus		Collocated,	Beta		Urban and	Quality			
Corpus Christi	483550032	Huisache	Christi	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Assurance	Neighborhood	27.80449	-97.43155
			3810 Huisache						Highest Concentration;			
		Corpus Christi	Street, Corpus			Pulsed		Urban and	Population			
Corpus Christi	483550032	•	Christi	SO2	SLAMS	Fluorescence	Continuous	Center City	Exposure	Neighborhood	27.80449	-97.43155
										_		

T			A dalama ar	Commission			0	1	Manthatta			
Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			3810 Huisache	<b>T</b>		Assistant		II have and	De la la la c			
Comus Christi	402550022	Corpus Christi	Street, Corpus	Temperature	CDM	Aspirated	Continuous	Urban and	Population	Middle Ceele	27 00440	07 42155
Corpus Christi	483550032	Huisache	Christi 3810 Huisache	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Center City	Exposure	Middle Scale	27.80449	-97.43155
		Corpus Christi	Street, Corpus			Cup		Urban and	Population			
Corpus Christi	483550032	•	Christi	Wind	SPM	Anemometer	Continuous	Center City	Exposure	Middle Scale	27.80449	-97.43155
									·			
		Corpus Christi	9860 La Branch,						Population			
Corpus Christi	483550026	Tuloso	Corpus Christi	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	27.83241	-97.55539
		Corpus Christi	9860 La Branch,			Pulsed			Population			
Corpus Christi	483550026	•	Corpus Christi	S02	SLAMS	Fluorescence	Continuous	Suburban	Exposure	Neighborhood	27.83241	-97.55539
				<b>-</b> .								
Course Chuisti	400550000	Corpus Christi	9860 La Branch,	Temperature	CDM	Aspirated	Continuous	Culture	Highest	Naiahhauhaad	27 022 41	07 55500
Corpus Christi	483550026	TUIOSO	Corpus Christi	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Suburban	Concentration	Neighborhood	27.83241	-97.55539
		Corpus Christi	9860 La Branch,			Cup			Highest			
Corpus Christi	483550026	Tuloso	Corpus Christi	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Neighborhood	27.83241	-97.55539
			Corpus Christi									
			State School, 902 Airport									
		Corpus Christi	Road, Corpus						Population			
Corpus Christi	483550025	•	Christi	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	27.76534	-97.43426
			Corpus Christi									
			State School,									
		Courses Chuisti	902 Airport			Dulaad			Demulation			
Corpus Christi	483550025	Corpus Christi	Road, Corpus Christi	SO2	SLAMS	Pulsed Fluorescence	Continuous	Suburban	Population Exposure	Neighborhood	27.76534	-97.43426
corpus critisti	405550025	WESL	Corpus Christi	302	SLAMS	riudrescence	Continuous	Suburban	Exposure	Neighbornood	27.70334	-97.43420
			State School,									
			902 Airport									
		Corpus Christi	Road, Corpus	Solar	0014	<b>D</b> I 1 1	<b>.</b>		Population			
Corpus Christi	483550025	West	Christi Corpus Christi	Radiation	SPM	Photovoltaic	Continuous	Suburban	Exposure	Neighborhood	27.76534	-97.43426
			State School,									
			902 Airport									
		Corpus Christi	Road, Corpus	Temperature		Aspirated			Population			
Corpus Christi	483550025	West	Christi	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	27.76534	-97.43426
			Corpus Christi State School,									
			902 Airport			Potentiometer						
		Corpus Christi	Road, Corpus			Cup			Population			
Corpus Christi	483550025	West	Christi	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	27.76534	-97.43426
			5707 Up River				24.11-		Demulation			
Cornus Christi	103550034	Dona Bark	Rd, Corpus Christi		SLAME	HiVol	24 Hours;	Urban and	Population	Noighborhood	27 01102	-07 46570
Corpus Christi	483550034	Dulla Park	5707 Up River	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Center City	Exposure	Neighborhood	27.81182	-97.46570
			Rd, Corpus			Sequential FRM	24 Hours;	Urban and	Population			
Corpus Christi	483550034	Dona Park	Christi	PM2.5 (FRM)	SPM	Gravimetric	1/6 Days	Center City	Exposure	Neighborhood	27.81182	-97.46570

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			5707 Up River			Carbons,						
			Rd, Corpus	PM2.5		Elements, Ions,	24 Hours;	Urban and	Population			
Corpus Christi	483550034	Dona Park	Christi	(Speciation)	SPM	2025/URG	1/6 Days	Center City	Exposure	Neighborhood	27.81182	-97.46570
			5707 Up River	PM2.5		TEOM			Destand			
Corpus Christi	402550024	Dona Park	Rd, Corpus Christi	(TEOM) <sup>N</sup>	SPM	TEOM Gravimetric	Continuous	Urban and Center City	Regional Transport	Naiabharhaad	27 01102	07 46570
Corpus Christi	483550034	Dolla Park	5707 Up River	(TEOM)	5819	Gravimetric	Continuous	Center City	Transport	Neighborhood	27.81182	-97.46570
			Rd, Corpus	Temperature		Aspirated		Urban and	Highest			
Corpus Christi	483550034	Dona Park	Christi	(Outdoor)	SPM	Thermister	Continuous	Center City	Concentration	Regional Scale	27.81182	-97.46570
			5707 Up River			Potentiometer						
		/	Rd, Corpus			Cup	<b>a</b>	Urban and	Highest			
Corpus Christi	483550034	Dona Park	Christi	Wind	SPM	Anemometer	Continuous	Center City	Concentration General,	Regional Scale	27.81182	-97.46570
									Background;			
			Corsicana						Max Precursor			
		Corsicana	Airport,			Chemilumine-			Emissions			
Corsicana*	483491051	. Airport	Corsicana	NO/NO2/NOx	SPM	scence	Continuous	Rural	Impact	Urban Scale	32.03193	-96.39914
									General,			
		Consissons	Corsicana						Background;			
Corsicana*	483491051	Corsicana	Airport, Corsicana	03	SPM	UV Photometric	Continuous	Rural	Max Ozone Concentration	Urban Scale	32.03193	-96.39914
Considentia	403491031		Corsicana	05	JEPT	ov motometric	Continuous	Kurai	Concentration	Orban Scale	52.05195	-90.39914
		Corsicana	Airport,	PM2.5		TEOM						
Corsicana*	483491051	. Airport	Corsicana	(TEOM) <sup>N</sup>	SPM	Gravimetric	Continuous	Rural	Source Oriented	Neighborhood	32.03193	-96.39914
			Corsicana									
<b>C</b>	402401051	Corsicana	Airport,	Relative	CDM	Humidity	C. J.	D I	General,		22 02102	06 2001 4
Corsicana*	483491051	. Airport	Corsicana Corsicana	Humidity	SPM	Sensor	Continuous	Rural	Background	Urban Scale	32.03193	-96.39914
		Corsicana	Airport,			Pulsed						
Corsicana*	483491051		Corsicana	SO2	SPM	Fluorescence	Continuous	Rural	Source Oriented	Urban Scale	32.03193	-96.39914
			Corsicana									
		Corsicana	Airport,	Temperature		Aspirated			General,			
Corsicana*	483491051	. Airport	Corsicana	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Rural	Background	Urban Scale	32.03193	-96.39914
		Corsicana	Corsicana Airport,			Cup			General,			
Corsicana*	483491051		Corsicana	Wind	SPM	Anemometer	Continuous	Rural	Background	Urban Scale	32.03193	-96.39914
	100101001	Richland	Concluding		0		00111110000		Buokground		52105155	50.0551
		Southeast 122	0 Southeast 1220			Pulsed						
Corsicana*	483491081		Road, Richland	SO2	SLAMS	Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	31.90410	-96.35200
		Richland	0.0000000000000000000000000000000000000	Tomporatives		Acciented			Comoral			
Corcicana*	483491081		0 Southeast 1220 Road, Richland	Temperature	SPM	Aspirated	Continuous	Pural	General, Background	Noighborhood	31.90410	-96.35200
Corsicana*	403491081	Richland	Rudu, Richidha	(Outdoor)	38191	Thermister Potentiometer	Continuous	Ruidi	Background	Neighborhood	31.90410	-90.35200
			0 Southeast 1220			Cup			General,			
Corsicana*	483491081		Road, Richland	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	31.90410	-96.35200
Dallas-Fort		Arlington	5504 South									
Worth-		Municipal	Collins Street,			Chemilumine-	- ···		Population			
Arlington	484393011	. Airport	Arlington	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Neighborhood	32.65637	-97.08859

Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude	Longitude
CBSA	Number		Location	Туре			Schedule	Setting	Objective			Longitude
Dallas-Fort		Arlington	5504 South									
Worth-		Municipal	Collins Street,	~ ~	~				Population		~~ ~~~~	
Arlington Dallas-Fort	484393011	Airport Arlington	Arlington 5504 South	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	32.65637	-97.08859
Worth-		Municipal	Collins Street,	Solar					Highest			
Arlington	484393011	•	Arlinaton	Radiation	SPM	Photovoltaic	Continuous	Suburban	Concentration	Neighborhood	32.65637	-97.08859
Dallas-Fort	404595011	Arlington	5504 South	Raulation	Эгіч	FIIOLOVOILAIC	Continuous	Suburban	Concentration	Neighborhood	52.05057	-97.00039
Worth-		Municipal	Collins Street,	Temperature		Aspirated			Highest			
Arlington	484393011	•	Arlington	(Outdoor)	SPM	Thermister	Continuous	Suburban	Concentration	Neighborhood	32.65637	-97.08859
Dallas-Fort		Arlington	5504 South	(		Potentiometer						
Worth-		Municipal	Collins Street,			Cup			Highest			
Arlington	484393011	Airport	Arlington	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Neighborhood	32.65637	-97.08859
Dallas-Fort												
Worth-		Cleburne	1650 Airport		PAMS,				Population			
Arlington	482510003	Airport	Drive, Cleburne	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	32.35359	-97.43674
Dallas-Fort		Claburga							Destand			
Worth-	492510002	Cleburne	1650 Airport	Dodon Drofilon	CDM	Dadar Drafilar	Continuous	Cuburban	Regional	Decienal Coole	22 25250	07 42674
Arlington Dallas-Fort	482510003	Airport	Drive, Cleburne	Radar Profiler	SPM	Radar Profiler	Continuous	Suburban	Transport	Regional Scale	32.35359	-97.43674
Worth-		Cleburne	1650 Airport	Solar	PAMS,				General,			
Arlington	482510003		Drive, Cleburne	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Background	Neighborhood	32.35359	-97.43674
Dallas-Fort	102310003	7 in porc	Brive, cleburie	Radiation	001110	Thotovoltaic	continuous	Suburburi	Duckground	Heighborhood	52.55555	57115071
Worth-		Cleburne	1650 Airport	Temperature	PAMS,	Aspirated			General,			
Arlington	482510003	Airport	Drive, Cleburne	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Neighborhood	32.35359	-97.43674
Dallas-Fort						Potentiometer						
Worth-		Cleburne	1650 Airport		PAMS,	Cup			General,			
Arlington	482510003	Airport	Drive, Cleburne	Wind	SLAMS	Anemometer	Continuous	Suburban	Background	Neighborhood	32.35359	-97.43674
Dallas-Fort		- ··					24.11					
Worth-	404400050	Convention	717 South Akard,			HiVol	24 Hours;	Urban and	Population	Ni stalala a da sa si		06 70760
Arlington Dallas-Fort	481130050	Center	Dallas	PM10 (FRM)	SLAMS QA	Gravimetric	1/6 Days	Center City	Exposure	Neighborhood	32.77426	-96.79769
Worth-		Convention	717 South Akard,		Collocated,	HiVol	24 Hours;	Urban and	Population			
Arlington	481130050		Dallas	PM10 (FRM)	SLAMS	Gravimetric	1/12 Days	Center City	Exposure	Neighborhood	32.77426	-96.79769
Anngton	401130030	Center	Dallas		SLANS	Gravinicane	1/12 Duy3	center city	Highest	Neighborhood	52.77420	-90.79709
Dallas-Fort									Concentration;			
Worth-		Convention	717 South Akard,			Sequential FRM	24 Hours;	Urban and	Population			
Arlington	481130050	Center	Dallas	PM2.5 (FRM)	SLAMS	Gravimetric	1/3 Days	Center City	Exposure	Neighborhood	32.77426	-96.79769
Dallas-Fort				. ,						_		
Worth-		Convention	717 South Akard,	Temperature		Aspirated		Urban and	Population			
Arlington	481130050	Center	Dallas	(Outdoor)	SPM	Thermister	Continuous	Center City	Exposure	Neighborhood	32.77426	-96.79769
Dallas-Fort						Potentiometer			_			
Worth-	101100055	Convention	717 South Akard,		CDM	Cup	Carl	Urban and	Population	Nuclearly 1		0.0
Arlington	481130050	Center	Dallas	Wind	SPM	Anemometer	Continuous	Center City	Exposure Max Procursor	Neighborhood	32.77426	-96.79769
Dallas-Fort Worth-			1415 Hinton	Barometric	PAMS,	Barometric pressure		Urban and	Max Precursor Emissions			
	491120060	Dallas Hinton	Street, Dallas	Pressure	SLAMS	transducer	Continuous	Center City	Impact	Neighborhood	22 02007	-96.86012
Arlington	401130069		Sueer, Dallas	riessule	JLAM5	uansuucei	24 Hours;	center city	Inpact	Neighborhood	32.82007	-90.00012
Dallas-Fort							Seasonal, 8		Max Precursor			
Worth-			1415 Hinton		PAMS,	DNPH Silica	Hour;	Urban and	Emissions			
Arlington	481130069	Dallas Hinton	Street, Dallas	Carbonyl	SLAMS	HPLC	Seasonal	Center City	Impact	Neighborhood	32.82007	-96.86012
J												

Worth- Alington         413 Blinkon 48130069 Dallas Hinton         Street, Dallas Sensitivity         Value Sensitivity         Case Filter Sensitivity         Urban and Center City         Republic Exposure         Reighborhood         32.8207         -96.86012           Dallas-Fort         48130069 Dallas Hinton         Street, Dallas         Derived at site         Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Morth-         48130069 Dallas Hinton         Street, Dallas         NO2 (Direct)         SLMS         NO2         Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Morth-         48130069 Dallas Hinton         Street, Dallas         NO2 (Direct)         SLMS         NO2         Continuous         Center City         Max Precursor           Vorth-         48130069 Dallas Hinton         Street, Dallas         Sensitivity)         SLMS         Continuous         Center City         Max Precursor         Max Precursor         Highborhood         32.8207         -96.86012           Max Precursor         Max Precursor         Max Precursor         No2 (Direk)         SLMS         VPlotometric         Continuous         Center City         Scasor         Scasor         -96.86012           Mari	Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Worth- Alington         413 Blinkon 48130069 Dallas Hinton         Street, Dallas Sensitivity         Value Sensitivity         Case Filter Sensitivity         Urban and Center City         Republic Exposure         Reighborhood         32.8207         -96.86012           Dallas-Fort         48130069 Dallas Hinton         Street, Dallas         Derived at site         Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Morth-         48130069 Dallas Hinton         Street, Dallas         NO2 (Direct)         SLMS         NO2         Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Morth-         48130069 Dallas Hinton         Street, Dallas         NO2 (Direct)         SLMS         NO2         Continuous         Center City         Max Precursor           Vorth-         48130069 Dallas Hinton         Street, Dallas         Sensitivity)         SLMS         Continuous         Center City         Max Precursor         Max Precursor         Highborhood         32.8207         -96.86012           Max Precursor         Max Precursor         Max Precursor         No2 (Direk)         SLMS         VPlotometric         Continuous         Center City         Scasor         Scasor         -96.86012           Mari													
Arlington         48.130069 Dallas Hinton         Street, Dallas         Sensitivity         SLAMS         Correlation         Continuous         Center City         Exposure         Neighborhood         32.82007         -96.86012           Bollas-Ford         481130069 Dallas Hinton         Street, Dallas         Dew Point         SPM         Derived at site         Continuous         Center City         Exposure         Neighborhood         32.82007         -96.86012           Dallas-Ford         Worth-         481130069 Dallas Hinton         Street, Dallas         NO2         Continuous         Centre City         Exposure         Neighborhood         32.82007         -96.86012           Dallas-Ford         H115 Hinton         NO2 (Direct)         SLAMS         Direct-Read         Continuous         Center City         Concentration         Scorestration         -96.86012           Dallas-Ford         H115 Hinton         NO2 (Direct)         SLAMS         U/Photometric         Continuous         Center City         Concentration         32.82007         -96.86012           Dallas-Ford         NCORE,         NCORE,         Continuous         Center City         Exposure         Neighborhood         32.82007         -96.86012           Dallas-Ford         NCORE,         Attenuation,         Urban	Dallas-Fort									• •			
Dallas-Fort Worth- Arlington 481130069 Dallas Hinton Arlington 481130069 Dallas Hinton Arlington 481130069 Dallas Hinton Street, Dallas Morth- Arlington 481130069 Dallas Hinton Street, Dallas NO2 (Direct) Morth- Arlington 481130069 Dallas Hinton Street, Dallas NO2 (Direct) Street, Dallas NO2 (Direct) Street, Dallas NO2 (Direct) Street, Dallas NO2 (Direct) Street, Dallas NO2 (Direct) Street, Dallas NO2 (Direct) Street, Dallas Street,		481130060	9 Dallas Hinton			,		Continuous		•	Neighborhood	32 82007	-96 86012
Adlingtom         481130069 Dailas Hinton         Street, Dailas         Derived at site         Continuous         Center City         Exposure         Neighborhood         32.82007         -96.86012           Worth-         481130069 Dailas Hinton         Street, Dailas         NO2 (Direct         SLAMS         NO2         Continuous         Center City         Impact         Neighborhood         32.82007         -96.86012           Dailas-Fort         Hinton         Street, Dailas         NOY (High         SLAMS         NO2         Continuous         Center City         Impact         Neighborhood         32.82007         -96.86012           Allington         481130069 Dailas Hinton         Street, Dailas         Sensitivity:         SLAMS         Cury Fort         Urban and         Highest	Dallas-Fort	40115000	9 Danas Tinton	Street, Danas	Sensitivity)	JLANS	correlation	Continuous	center city	Exposure	Neighborhood	52.02007	-90.00012
Dallas-Fort Max Precursor Max	Worth-	401120000			D. D. S. S.	CDM		Carlin		•	No. 1 - Island - Island	22 02007	06 06010
Arlington       481130069 Dallas Hinton       Street, Dallas       NO2 (Direct)       SLAMS       NO2       Continuous       Center City       Impact       Neighborhood       32.82007       -96.86012         Dallas-Fort       115 Hinton       Street, Dallas       Sensitivity)       SLAMS       Centinuous       Center City       Mighborhood       32.82007       -96.86012         Dallas-Fort       Street, Dallas       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Mighborhood       32.82007       -96.86012         Dallas-Fort       NCORE,       Street, Dallas       NCORE,       Center City       Kontinuous       Center City       Exposure       Neighborhood       32.82007       -96.86012         Worth-       1415 Hinton       NCORE,       NCORE,       Center City       Exposure       Neighborhood       32.82007       -96.86012         Morth-       1415 Hinton       NCORE,       SLAMS       UV Photometric       Continuous       Center City       Exposure       Neighborhood       32.82007       -96.86012         Dallas-Fort       Morth-       1415 Hinton       NCORE,       SLAMS       170       Continuous       Center City       Exposure       Neighborhood       32.82007       -96.86012 <td>Dallas-Fort</td> <td>481130069</td> <td>9 Dallas Hinton</td> <td>Street, Dallas</td> <td>Dew Point</td> <td>SPM</td> <td>Derived at site</td> <td>Continuous</td> <td>Center City</td> <td></td> <td>Neighbornood</td> <td>32.82007</td> <td>-96.86012</td>	Dallas-Fort	481130069	9 Dallas Hinton	Street, Dallas	Dew Point	SPM	Derived at site	Continuous	Center City		Neighbornood	32.82007	-96.86012
Dallas-Fort       NCORE, Worth-       Chemilumine- scence API200       Urban and Center City       Highest Concentration       Highest Concentration       Highest Concentration         Dallas-Fort       NCORE, Fort       NCORE, SLAMS       EU/S01       Continuous       Center City Concentration       Neighborhood       32.8207       -96.86012         Dallas-Fort       NCORE, Arlington       NCORE, Atlansfort       NCORE, SLAMS       UV Photometric       Continuous       Center City Exposure       Neighborhood       32.82007       -96.86012         Dallas-Fort       NCORE, Arlington       SLAMS       UV Photometric       Continuous       Center City Exposure       Neighborhood       32.82007       -96.86012         Worth- Arlington       481130069 Dallas Hinton       Street, Dallas       SCREE, PM10-2.5       SLAMS       UV Photometric       Continuous       Center City Exposure       Neighborhood       32.82007       -96.86012         Dallas-Fort       Worth- Arlington       481130069 Dallas Hinton       Street, Dallas       PM2.5       SLAMS       170       Continuous       Center City Exposure       Neighborhood       32.82007       -96.86012         Dallas-Fort       Morth- Arlington       481130069 Dallas Hinton       Street, Dallas       NCORE, SLAMS       Center City QA       Exposure       Neighborho	Worth-					- /							
Worth- Arlington1415 HintonNOV (High Street, DallasPAMS, Scenct VIII)Scence API200 ContinuousUrban and Center CIV ConsentrationHighestDallas-FortStreet, DallasScenstivitySLAMSEU/S01ContinuousCenter CIV ConsentrationMax Precursor Emissions Impact;Max Precursor EmissionsMax Precurs	Arlington	481130069	9 Dallas Hinton	Street, Dallas	NO2 (Direct)	SLAMS	NO2	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
Arlington         481130069 Dallas Hinton         Street, Dallas         Sensitivity         SLAMS         EU/501         Continuous         Center City         Concentration         Neighborhood         32.8207         -96.86012           Dallas-Fort         NUTh         1415 Hinton         PAMS,         Urban and         Population         Timpact;         Population         32.8207         -96.86012           Worth-         1415 Hinton         Street, Dallas         O3         SLAMS         UV Photometric Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Ballas-Fort         NCORE,         Attenuation,         UV Photometric Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Dallas-Fort         NCORE,         Attenuation,         UV Photometric Continuous         Center City         Exposure         Neighborhood         32.8207         -96.86012           Dallas-Fort         North-         1415 Hinton         NCORE,         Attenuation,         Urban and         Population         -         -         -96.86012           Dallas-Fort         Street, Dallas         PM2.5 (FRM)         SLAMS         Gravimetric         1/3 Days         Center City         Exposure <td>Dallas-Fort</td> <td></td> <td></td> <td></td> <td></td> <td>NCORE,</td> <td>Chemilumine-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dallas-Fort					NCORE,	Chemilumine-						
Max PrecursorDallas-FortMax PrecursorDallas-FortMax PrecursorMorth-1415 HintonNCORE,UP hotometric ContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-FortUrban andPopulationSecond ContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-FortUrban andPopulationSecond ContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-FortUrban andPopulationSecond ContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-FortUrban andPopulationSEAMS170ContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-FortVirban andPopulationContinuousCenter CityExposureNeighborhood32.82007-96.86012Dallas-Fort													

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
									Highest			
Dallas-Fort									Concentration; Max Precursor			
Worth-			1415 Hinton	Speciated	PAMS,			Urban and	Emissions			
Arlington	481130069	) Dallas Hinton	Street, Dallas	VOC (AutoGC)	- /	GC	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
Dallas-Fort			,					,	Max Precursor			
Worth-			1415 Hinton	Temperature	PAMS,	Aspirated		Urban and	Emissions			
Arlington	481130069	Dallas Hinton	Street, Dallas	(Outdoor)	SLAMS	Thermister	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
									Highest Concentration;			
Dallas-Fort									Max Precursor			
Worth-			1415 Hinton	TNMOC	PAMS,			Urban and	Emissions			
Arlington	481130069	) Dallas Hinton	Street, Dallas	(AutoGC)	SLAMS	GC	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
Dallas-Fort									Max Precursor			
Worth-			1415 Hinton		PAMS,			Urban and	Emissions			
Arlington	481130069	Dallas Hinton	Street, Dallas	UV Radiation	SLAMS	Photovoltaic	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
Dallas-Fort Worth-			1415 Hinton			Visibility		Urban and	Population			
Arlington	481130060	) Dallas Hinton	Street, Dallas	Visibility	SPM	Sensor	Continuous	Center City	Exposure	Neighborhood	32.82007	-96.86012
Dallas-Fort	401150005	Danas minton	Street, Danas	VISIDIIICy	5111	Potentiometer	continuous	center eity	Max Precursor	Neighborhood	52.02007	50.00012
Worth-			1415 Hinton		PAMS,	Cup		Urban and	Emissions			
Arlington	481130069	) Dallas Hinton	Street, Dallas	Wind	SLAMS	Anemometer	Continuous	Center City	Impact	Neighborhood	32.82007	-96.86012
Dallas-Fort									Max Precursor			
Worth-	40110100	Dallas LBJ	8652 LBJ		Near Road,	Chemilumine-	C. I.	Urban and	Emissions	Mississi	22 02110	
Arlington Dallas-Fort	481131067	/ Freeway	Freeway, Dallas	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Impact Max Precursor	Microscale	32.92118	-96.75355
Worth-		Dallas LBJ	8652 LBJ	Temperature		Aspirated		Urban and	Emissions			
Arlington	481131067		Freeway, Dallas	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	32.92118	-96.75355
Dallas-Fort			,,	( ,		Potentiometer		,	Max Precursor			
Worth-		Dallas LBJ	8652 LBJ			Cup		Urban and	Emissions			
Arlington	481131067	7 Freeway	Freeway, Dallas	Wind	SPM	Anemometer	Continuous	Center City	Impact	Microscale	32.92118	-96.75355
Dallas-Fort		Dallac North	12532 1/2		DAME	Chamilumina			Denulation			
Worth- Arlington	481130075	Dallas North	Nuestra Drive, Dallas	NO/NO2/NOx	PAMS,	Chemilumine- scence	Continuous	Suburban	Population Exposure	Neighborhood	32.91921	-96.80850
Dallas-Fort	401130075	) #2	12532 1/2	10/102/102	SLAMS	Scence	Continuous	Suburban	Lyposule	Neighborhood	52.91921	-90.80850
Worth-		Dallas North	Nuestra Drive,		PAMS,				Population			
Arlington	481130075	5 #2	Dallas	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	32.91921	-96.80850
Dallas-Fort			12532 1/2									
Worth-		Dallas North	Nuestra Drive,	Solar	PAMS,				General,			
Arlington Dallas-Fort	481130075	o #2	Dallas 12532 1/2	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Background	Neighborhood	32.91921	-96.80850
Worth-		Dallas North	Nuestra Drive,	Temperature	PAMS,	Aspirated			General,			
Arlington	481130075		Dallas	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Neighborhood	32.91921	-96.80850
Dallas-Fort		<b>-</b>	12532 1/2	(244001)	520	Potentiometer	Sentinuous	Suburbur	a ang sa na		52.51521	20100000
Worth-		Dallas North	Nuestra Drive,			Cup			General,			
Arlington	481130075		Dallas	Wind	PAMS, SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	32.91921	-96.80850
Dallas-Fort		Dallas Redbird							<b>D</b>			
Worth-	40112000	Airport	3277 W Redbird		CLAMC	Chemilumine-	Continuous	Cuburbaa	Population	Naiabbarbaad	22 67645	06 07206
Arlington	481130087	7 Executive	Lane, Dallas	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Neighborhood	32.67645	-96.87206

CEDA         Number         Datas Vector         Location         Type         Schedule         S	Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude	Longitude
Worth- Dails Fed       Airport Balanged (anipute)       27.7 W Redin (buils redin)       27.7 W Redin (buils redin)       Apprint (buils redin)       Suburban       Suburban       Rescurption       Suburban	CBSA	Number		Location	Туре			Schedule	Setting	Objective			Longitudo
Arington         48113008         Evenutive         Lane, Dallas         O         SLAMS         VI Phatometric         Cantinuous         Suburban         Evenues         Undas         Solution         32.6764         96.87206           Maington         Alignon         Alignon         Alignon         Alignon         Alignon         Solution         Solution<										Demulation			
Dallas Froit       Dallas Redirit         Adignation       Aspirated       Temperature       Aspirated       Continuous       Suburban       Background       Neighborhood       32.67645       -96.87206         Adiag-ford       Allington       Allington       Allington       Background       Neighborhood       32.67645       -96.87206         Adiag-ford       Allington       Allington       Allington       Suburban       Background       Neighborhood       32.67645       -96.87206         Dallas-Ford       Denton Airport       Darton       Nov       Amemorater       Continuous       Suburban       Background       Neighborhood       32.67645       -96.87206         Dallas-Ford       Menton       Amemorater       Continuous       Suburban       Background       Neighborhood       32.67645       -96.87206         Dallas-Ford       Monton       South, Denton Airport       South, Denton Airport       South, Denton Airport       South, Denton Airport       Nov (High       PAMS,       Chemilumine- Scence       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Adington       Allistord       South, Denton Airport       Ponton Airport       PAMS,       Continuous       Rural       Exposure		401120007	•		02	CLAME	UV Dhotomotric	Continuous	Cuburban	•	Urban Scala	22 67645	06 97206
Worth- Dailas-Fort       Airport Balas Reduit       3277 W Reduit Couldoort       Temperature Suborts       Apprised Temperature Couldoort       General, Couldoort       General, Background       Heighborhood       32.6764       -96.87205         Dailas-Fort       Aprington Dailas-Fort       Aprington Dailas-Fort       Aprington Dailas-Fort       Neighborhood       32.6764       -96.87200         Attington Attington Dailas-Fort       Aprington Dailas-Fort       Aprington Dailas-Fort       Security       Cup       General, Councentrations       Neighborhood       32.6764       -96.87200         Vorth- Attington       Aprington Attington       Aprington Attington       Security       Neighborhood       32.6764       -96.87200         Vorth- Attington       Aprington Attington       Aprington Attington       Aprington Attington       Neighborhood       32.1907       -97.19628         Attington Attington       Aprington Attington       Aprington Attington       Neighborhood       32.21907       -97.19628         Attington Attington       Aprington Attington       Aprington Attington       Neighborhood       32.21907       -97.19628         Attington Attington       Aprington Attington       Aprington Attington       Aprington Attington       Aprington Attington       Aprington Attington       Aprington Attington       Aprington Attington		401130007		Lane, Danas	03	SLAMS	UV PHOLOMELIIC	Continuous	Suburban	Exposure	UIDAII Scale	52.07045	-90.07200
Artington         491130087         Executive Dallas-Fort         Lenc, Dallas         Outdoor         SPM         Thermister         Continuous         Suburban         Background         Neighborhood         32.67645         96.87206           Bollas-Fort         Airport         327.97 w Rebly         Vind         SPM         Anemometer         Continuous         Suburban         Background         Neighborhood         32.67645         -96.87206           Dallas-Fort         Wind         SPM         Anemometer         Continuous         Rural         Population         Viran         52.67645         -96.87206           Dallas-Fort         South, Denton         New Point         SPM         Derived at site         Continuous         Rural         Population         Viran         52.67645         -97.19628           Dallas-Fort         Denton Airport         Benton Airport         No/(NO2/NOX         SLAMS         Scence         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort         Worth-         Denton Airport         No/(NO2/NOX         SLAMS         Scence         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort <t< td=""><td></td><td></td><td></td><td>3277 W Redbird</td><td>Temperature</td><td></td><td>Aspirated</td><td></td><td></td><td>General,</td><td></td><td></td><td></td></t<>				3277 W Redbird	Temperature		Aspirated			General,			
Worth- Dallas-FortAirport energy Build227 W Reding windSPMCup Amemonater ContinuousGeneral, SoluburbanGeneral, restrictionGe	Arlington	481130087	•	Lane, Dallas	•	SPM	•	Continuous	Suburban	Background	Neighborhood	32.67645	-96.87206
Atington       481130087 Executive       Jane, Dallas       Wind       SPM       Anemometer       Continuous       Suburban       Background       Neighborhood       32.67645       96.87206         Worth-       Denton Airport       Denton Airport       Denton Airport       Denton Airport       SPM       Derived at site       Continuous       Rural       Exposure       Urban Scale       32.1907       -97.19628         Dallas-Fort       March Stanto       Denton Airport       Denton Airport       Denton Airport       NO/NOZ/NOS       SLMS       Scence       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Arlington       481210034       South, Denton       NO/NOZ/NOS       SLMS       Scence       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Arlington       481210034       South, Denton       NO/N (High       FAMS,       Teledyne       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Arlington       481210034       South, Denton       NO/N (High       FAMS,       UV Photometric       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Arlin	Dallas-Fort		Dallas Redbird	· · · ·			Potentiometer						
Dallas-Fort Worth- Dallas-Fort Worth- Denton Airport Affington 481210034 South South, Denton Airport Denton Airport D			•				•			,			
Worth- Dallas-Fort         Denton Airport (0)         Denton		481130087	Executive	Lane, Dallas	Wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	32.67645	-96.87206
Arlington         481210034         South, Denton         Dew Point         SPM         Derived at site         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort			Donton Airport	Donton Airport						Dopulation			
Dallas-Fort         Max Ozone         Max Ozone           Worth-         Denton Airport         Denton Airport         PAMS,         Chemilumine-         Population           Arlington         481210034         South, Denton         NO/NO2/NOX         SLAMS         Scence         Concentration;           Dellas-Fort         Worth-         Denton Airport         Denton Airport         NOy (High         PAMS,         Chemilumine-         Scence         Concentration;           Vorth-         Denton Airport         Denton Airport         South, Denton         NOy (High         PAMS,         Chemilumine-         Scence         Concentration;         Population           Arlington         481210034         South, Denton         NOy (High         PAMS,         API200 EU/501         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort         Worth-         Denton Airport         Denton Airport         PAMS,         SLAMS         V Photometric Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort         Worth-         Denton Airport         PAMS,         Attenuation         Continuous         Rural         Exposure         Urban Scale         33.219		491210034	•	•	Dow Point	SDM	Derived at site	Continuous	Pural	•	Urban Scale	22 21007	-07 10629
Worth- Arlington         Denton Airport South, Denton         PAMS, South, Denton         Chemilumine- Scence         Rural         Exposure Exposure         Urban Scale         33.21907         -97.19628           Dallas-Fort         Denton Airport         Denton Airport         NOV(NOZ/NOX SLAMS         Scence         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Vorth- Arlington         481210034         South         South, Denton         Sensitivity         SLAMS         API200 EU/S01         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Worth- Arlington         481210034         South         Denton Airport         PAMS, South, Denton         SLAMS         UV Photometric         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Vorth- Dallas-Fort         Denton Airport         Denton Airport         PAMS, South, Denton         SPAMS         UV Photometric         Continuous         Rural         Exposure         Urban Scale         33.21907         -97.19628           Vorth- Dallas-Fort         Denton Airport         South, Denton         PMS, StaMS         Rural         Continuous         Rural         Concentration, Vrban Scale         33.	Annigton	401210034	50000	South, Denton	Dewronne	5114	Derived at site	Continuous	Rurui		orban Scale	55.21907	-97.19020
Arlington       481210034 South       South, Denton       NO/NO2/NOX       SLAMS       scence       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       NOY (High       PAMS,       Teledyne       Concentration;       Population       Population <td< td=""><td>Dallas-Fort</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Concentration;</td><td></td><td></td><td></td></td<>	Dallas-Fort									Concentration;			
Dallas-Fort       Denton Airport       Denton Airport       NOV (High Sensitivity)       PAMS, SLAMS       Chemilumine- scence       Max Ozone Concentration; Population       Max Ozone Sone Stams       Max Ozone Concentration; Population         Dallas-Fort       Denton Airport       South, Denton       South, Denton       Suth, Denton       PAMS, SLAMS       AII200 EU/S01       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       South, Denton       O3       SLAMS       UV Photometric       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       PMLS, Stams       Exposure       Urban Scale       33.21907       -97.19628         Morth-       Denton Airport       Denton Airport       South, Denton       PM2.5       Beta       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       PAMS,       Rainidating       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport </td <td>Worth-</td> <td></td> <td>Denton Airport</td> <td>Denton Airport</td> <td></td> <td>PAMS,</td> <td>Chemilumine-</td> <td></td> <td></td> <td>Population</td> <td></td> <td></td> <td></td>	Worth-		Denton Airport	Denton Airport		PAMS,	Chemilumine-			Population			
Dallas-Fort       Scence       Concentration         Worth-       Denton Airport       South, Denton       South, Den	Arlington	481210034	South	South, Denton	NO/NO2/NOx	SLAMS	scence	Continuous	Rural	Exposure	Urban Scale	33.21907	-97.19628
Dallas-Fort       Scence       Concentration         Worth-       Denton Airport       South, Denton       South, Den							Chamiltoniaa						
Worth- ArlingtonDenton Airport South, Denton AllargtonNOy (High Subs South, Denton Sensitivity)PAMS, SLAMSTeledynePopulationPopulationArlington Allargton481210034 SouthSouth, Denton Airport Denton AirportDenton Airport Denton AirportDenton Airport Denton AirportDenton Airport Denton AirportDenton Airport Denton AirportPAMS, Denton AirportVP hotometric Continuous RuralRuralExposure PopulationUrban Scale Scale33.21907-97.19628Worth- Denton AirportDenton Airport Denton AirportDenton Airport Denton AirportPM2.5 (Beta)SPM AttenuationContinuous ContinuousRuralExposure PopulationUrban Scale Scale33.21907-97.19628Worth- Denton AirportDenton Airport Denton AirportPM2.5 (Beta)SPM AttenuationContinuous ContinuousRuralExposure ConcentrationUrban Scale Urban Scale33.21907-97.19628Dallas-FortPatto Airport PrecipitationSLAMSSMS SensorContinuousRuralConcentration ConcentrationUrban Scale Urban Scale33.21907-97.19628Dallas-FortPatto Airport South, Denton Airport Morth-Rural Concentration Max OzoneUrban Scale Max Ozone33.21907-97.19628Dallas-FortSouth South, Denton Airport South, DentonRural RuralConcentration ConcentrationUrban Scale Max Ozone33.21907-97.19628Dallas-FortSouth South, Denton </td <td>Dallac Fort</td> <td></td>	Dallac Fort												
Arlington       481210034       South       South       Denton       Sensitivity       SLAMS       API200 EU/S01       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       PAMS,       Pathetic Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       South       South, Denton       O3       SLAMS       UV Photometric       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       PM2.5 (Beta)       SPM       Attenuation       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Worth-       Denton Airport       Penton Airport       PM2.5 (Beta)       SPM       Attenuation       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Marchina Airport       Denton Airport       PMS,       Humidity       StamS       Sensor       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628			Donton Airport	Donton Airport	NOv (High	DAMC				,			
Jallas-Fort     Máx Ozone       Worth-     Denton Airport     Penton Airport     PAMS,       Worth-     Denton Airport     Os     SLAMS     UV Photometric Continuous     Rural     Exposure     Urban Scale     33.21907     -97.19628       Dallas-Fort     Denton Airport     Denton Airport     Beta     Population       Arlington     481210034     South, Denton     PM2.5 (Beta)     SPM     Attenuation     Continuous     Rural     Exposure     Urban Scale     33.21907     -97.19628       Dallas-Fort     Worth-     Denton Airport     PAMS,     StamS     Rain Gauge     Continuous     Rural     Concentration     Was Ozone       Arlington     481210034     South, Denton     Precipitation     SLAMS     Rain Gauge     Continuous     Rural     Concentration     Urban Scale     33.21907     -97.19628       Dallas-Fort     South, Denton Airport     PAMS,     Humidity     Max Ozone     Max Ozone     -97.19628       Dallas-Fort     Beta     North-     Max Ozone     Max Ozone     -97.19628     -97.19628       Dallas-Fort     South, Denton Airport     Relative     PAMS,     Humidity     Max Ozone     -97.19628       Dallas-Fort     South, Denton Airport     Speclated     Concentration <td></td> <td>481210034</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>Continuous</td> <td>Rural</td> <td>•</td> <td>Urhan Scale</td> <td>33 21907</td> <td>-97 19628</td>		481210034					,	Continuous	Rural	•	Urhan Scale	33 21907	-97 19628
Worth- Dallas-Fort       Denton Airport       Denton Airport       PAMS,       Very Photometric       Population       Population         Worth- Dallas-Fort       Denton Airport       Denton Airport       Such, Denton       O3       SLAMS       UV Photometric       Rural       Exposure       Urban Scale       33.21907       -97.19628         Worth- Dallas-Fort       Denton Airport       Denton Airport       PMS,       Setta       Population       Such, Denton       Such, Denton       PMS,       Such, Denton       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Worth-       Denton Airport       PMS,       StamS       Rain Gauge       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Pattoria       South, Denton       Precipitation       SLAMS       Rain Gauge       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Very Hoton Airport       Denton Airport       Relative       PAMS,       Humidity       Max Ozone       Karal       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       South, Denton       South       South	Annigton	401210054	50000	South, Denton	Schaltwicy)	JLAND	A1200 L0/301	continuous	Kurui		orban Scale	55.21507	57.15020
Arlington481210034South,DentonO.3SLAMSU.V PhotometricContinuousRuralExposureUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportPM2.5 (Beta)SPMAttenuationContinuousRuralExposureUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportPM2.5 (Beta)SPMAttenuationContinuousRuralExposureUrban Scale33.21907-97.19628Worth-Denton AirportDenton AirportDenton AirportPrecipitationSLAMSRain GaugeContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportDenton AirportRelativePAMS,Humidity-Max OzoneWorth-Denton AirportDenton AirportRelativePAMS,SensorContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortOption AirportDenton AirportSouth, DentonRuralContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportSouth, DentonRuralContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportSouth, DentonRuralSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907 </td <td>Dallas-Fort</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Concentration;</td> <td></td> <td></td> <td></td>	Dallas-Fort									Concentration;			
Dallas-Fort       Beta       Population         Worth-       Denton Airport       South, Denton       PM2.5 (Beta)       SPM       Attenuation       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Dallas-Fort       Worth-       Denton Airport       Denton Airport       PAMS,       Max Ozone       -97.19628         Arlington       481210034       South, Denton       Precipitation       SLAMS       Rain Gauge       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Relative       PAMS,       Humidity       Max Ozone       -         Vorth-       Denton Airport       Denton Airport       Relative       PAMS,       Humidity       Max Ozone       -       -       -97.19628         Dallas-Fort       South, Denton       Radiation       SLAMS       Photovoltaic       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Radiation       SLAMS       Photovoltaic       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628	Worth-		Denton Airport	Denton Airport		PAMS,				Population			
Worth-       Denton Airport       Denton Airport       PM2.5 (Beak       SPM       Attenuation       Continuous       Rural       Exposure       Urban Scale       33.21907       -77.19628         Dallas-Fort        Penton Airport       PM2.5 (Beak       SPM       Attenuation       Continuous       Rural       Exposure       Urban Scale       33.21907       -97.19628         Worth-       Denton Airport       Penton Airport       Penton Airport       ParkS,        Max Ozone       Urban Scale       33.21907       -97.19628         Dallas-Fort       Ponto Airport       South, Denton       Precipitation       Sensor       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       South, Denton       Humidity       SLAMS       Sensor       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Worth-       Denton Airport       South, Denton       Radiation       SLAMS       Photovoltaic       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Betton Airport       South, Denton       Radiation       SLAMS       Photovoltaic <t< td=""><td></td><td>481210034</td><td>South</td><td>South, Denton</td><td>03</td><td>SLAMS</td><td>UV Photometric</td><td>Continuous</td><td>Rural</td><td>Exposure</td><td>Urban Scale</td><td>33.21907</td><td>-97.19628</td></t<>		481210034	South	South, Denton	03	SLAMS	UV Photometric	Continuous	Rural	Exposure	Urban Scale	33.21907	-97.19628
Arlington481210034South, DentonPM2.5 (Beta)SPMAttenuationContinuousRuralExposureUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportSouth, DentonPrecipitationSLAMSRain GaugeContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportRelativePAMS,HumidityMax OzoneMax Ozone-97.19628Morth-Denton AirportSouth, DentonRelativePAMS,HumidityMax OzoneMax Ozone-97.19628Dallas-FortSouth, Denton AirportRelativePAMS,HumidityKaralConcentrationUrban Scale33.21907-97.19628Worth-Denton AirportSouth, Denton AirportRelativePAMS,HumidityMax OzoneMax Ozone-Worth-Denton AirportSouth, Denton AirportSouth, Denton AirportSLAMSSensorContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSouthSouth, Denton AirportSpeciatedConcentrationUrban Scale33.21907-97.19628Morth-Denton AirportDenton AirportSouth, DentonCanister GC-24 Hours;PopulationArlington481210034SouthSouth, DentonCanister GC-24 Hours;PopulationArlington <td< td=""><td></td><td></td><td>Dantan Aimant</td><td>Dantan Alimant</td><td></td><td></td><td>Data</td><td></td><td></td><td>Demulation</td><td></td><td></td><td></td></td<>			Dantan Aimant	Dantan Alimant			Data			Demulation			
Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Precipitation       SLAMS       Rain Gauge       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Relative       PAMS,       Humidity       Max Ozone       Concentration       Urban Scale       33.21907       -97.19628         Morth-       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Denton Airport       Solar       PAMS,       Humidity       Max Ozone       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Denton Airport       Denton Airport       Denton Airport       Solar       PAMS,       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       South, Denton       Radiation       SLAMS       Photovoltaic       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       South, Denton       Gaister       SLAMS       MS       1/6 Days       Rural       Exposure       Urban Sc		401210024	•		DM2 E (Data)	CDM		Continuous	Dural	•	Urban Caala	22 21007	07 106 29
Worth- ArlingtonDenton Airport 481210034Denton Airport South, DentonPrecipitationPAMS, SLAMSRain Gauge ContinuousRuralConcentration ConcentrationUrban Scale33.21907-97.19628Worth- Dallas-FortDenton Airport Allaga SouthDenton Airport South, DentonRelative HumidityPAMS, SensorHumidityMax Ozone		481210034	South	South, Denton	PMZ.5 (Deld)	SPM	Allenuation	Continuous	Kurai	Exposure	Urban Scale	33.21907	-97.19628
Arlington481210034 SouthSouth, DentonPrecipitationSLAMSRain GaugeContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportSouth, DentonRelativePAMS,HumidityKuralConcentrationUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportSolarPAMS,HumidityKuralConcentrationUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportSolarPAMS,PhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSouth, Denton AirportSolarPAMS,PhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSeciatedSouth, DentonRadiationSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSeciatedSouth, Denton(Canister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortSeuth, Denton AirportDenton AirportTemperaturePAMS,Canister GC-24 Hours;PopulationSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecietedSecieted			Denton Airport	Denton Airport		PAMS,				Max Ozone			
Worth- ArlingtonDenton Airport South, DentonRelative HumidityPAMS, SLAMSHumidity SensorRuralMax OzoneConcentration Urban ScaleUrban Scale33.21907-97.19628Dallas-Fort <td></td> <td>481210034</td> <td>•</td> <td>•</td> <td>Precipitation</td> <td>,</td> <td>Rain Gauge</td> <td>Continuous</td> <td>Rural</td> <td></td> <td>Urban Scale</td> <td>33.21907</td> <td>-97.19628</td>		481210034	•	•	Precipitation	,	Rain Gauge	Continuous	Rural		Urban Scale	33.21907	-97.19628
Arlington481210034 SouthSouth, DentonHumiditySLAMSSensorContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportSouth, DentonRadiationSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Max OzoneArlington481210034 SouthSouth, DentonRadiationSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSpeciatedSpeciatedSpeciatedConcentration;PopulationConcentration;VocPopulation-97.19628Morth-Denton AirportDenton AirportSouth, DentonCanister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortVOCPAMS,Canister GC-24 Hours;PopulationWorth-Denton AirportSouth, Denton(Canister)SLAMSMS1/6 DaysRuralConcentration;Worth-Denton AirportMainportTemperaturePAMS,Aspirated-Max Ozone<	Dallas-Fort				•								
Dallas-FortDenton AirportDenton AirportSolarPAMS,Max OzoneArlington481210034SouthSouth, DentonRadiationSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSpeciatedSpeciatedSouth, Denton AirportDenton AirportDenton AirportVOCPAMS,Canister GC-24 Hours;PopulationAflington481210034SouthSouth, Denton(Canister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Vorth-Denton AirportDenton AirportConsister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortSouth, Denton(Outdoor)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Worth-Denton AirportDenton AirportTemperaturePAMS,AspiratedMax OzoneArlington481210034SouthSouth, Denton(Outdoor)SLAMSThermisterContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportPAMS,CupMax OzoneWorth-Denton AirportDenton AirportPAMS,CupMax OzoneWorth-Denton AirportDenton AirportPAMS,CupMax Ozone <t< td=""><td></td><td></td><td></td><td></td><td></td><td>,</td><td>Humidity</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						,	Humidity						
Worth- ArlingtonDenton Airport 481210034Denton Airport South, DentonSolar RadiationPAMS, SLAMSPhotovoltaicContinuous ContinuousRuralMax OzoneConcentrationUrban Scale33.21907-97.19628Dallas-FortSpeciatedSuth, Denton Airport South, Denton AirportDenton Airport South, DentonVOCPAMS, Canister GC- SLAMS24 Hours; I/6 DaysPopulationConcentration Max OzoneUrban Scale33.21907-97.19628Worth-Denton Airport Morth-Denton Airport Denton AirportSuth, Denton ConsterSLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Worth-Denton Airport Morth-Denton Airport South, DentonTemperature (Outdoor)PAMS, SLAMSAspiratedKuralKaralConcentration ExposureUrban Scale33.21907-97.19628Worth-Denton Airport Max OzoneDenton Airport Max OzoneTemperature PAMS, NotationeContinuous PameristerRuralConcentration ConcentrationUrban Scale33.21907-97.19628Dallas-FortExposureUrban ScaleSouth, Denton MindSLAMSAnemometer ContinuousContinuous RuralRuralConcentration ConcentrationUrban Scale33.21907-97.19628Dallas-FortPAMS, Suth, DentonCupKuralConcentration ContinuousUrban Scale33.21907-97.19628Dallas-Fort		481210034	South	South, Denton	Humidity	SLAMS	Sensor	Continuous	Rural	Concentration	Urban Scale	33.21907	-97.19628
Arlington481210034SouthSouth, DentonRadiationSLAMSPhotovoltaicContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSpeciatedSp			Donton Airport	Donton Airport	Solar	DAMC				Max Ozono			
Dallas-FortSpeciatedMax Ozone Concentration;Worth-Denton AirportDenton AirportVOCPAMS, (Canister)Canister GC- SLAMS24 Hours; MSPopulationArlington481210034SouthSouth, Denton(Canister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportDenton AirportTemperaturePAMS, (Outdoor)AspiratedMax Ozone-Worth-Denton AirportDenton AirportTemperaturePAMS, (Outdoor)AspiratedMax Ozone-Worth-Denton AirportDenton AirportTemperaturePAMS, (Outdoor)ContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportDenton AirportPAMS, (Outdoor)CupMax OzoneWorth-Denton AirportDenton AirportPAMS, (Outdoor)CupMax OzoneWorth-Denton AirportDenton AirportPAMS, (CupCupMax OzoneArlington481210034SouthSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportPAMS, (DurbanCupMax PrecursorWorth-Eagle MountainDido Newark Rd,Chemilumine-Emissions <td></td> <td>481210034</td> <td>•</td> <td></td> <td></td> <td></td> <td>Photovoltaic</td> <td>Continuous</td> <td>Rural</td> <td></td> <td>Urhan Scale</td> <td>33 21907</td> <td>-97 19628</td>		481210034	•				Photovoltaic	Continuous	Rural		Urhan Scale	33 21907	-97 19628
Dallas-FortSpeciatedConcentration;Worth-Denton AirportDenton AirportVOCPAMS,Canister GC-24 Hours;PopulationArlington481210034SouthSouth, DentonCanister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortWorth-Denton AirportDenton AirportTemperaturePAMS,AspiratedKuralConcentrationUrban Scale33.21907-97.19628Arlington481210034SouthSouth, DentonTemperaturePAMS,AspiratedContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortVOCPAMS,CupMax OzoneVocentrationUrban Scale33.21907-97.19628Worth-Denton AirportDenton AirportPAMS,CupMax OzoneVocentrationUrban Scale33.21907-97.19628Worth-Denton AirportDenton AirportPAMS,CupMax OzoneVocentrationUrban Scale33.21907-97.19628Dallas-FortVindSudh, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortVindSudh, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortVindSudhSudhCupMax PrecursorMax PrecursorVind	7 annigeon	401210054	South	South, Denton	Radiation	52415	Thotovoltaic	continuous	Rara		orban Scale	55.21507	57.15020
Arlington481210034 SouthSouth, Denton(Canister)SLAMSMS1/6 DaysRuralExposureUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportTemperaturePAMS,AspiratedMax OzoneArlington481210034 SouthSouth, Denton(Outdoor)SLAMSThermister PotentiometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSouth, Denton AirportDenton AirportSLAMSThermister PotentiometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Worth-Denton AirportDenton AirportPAMS,CupMax OzoneWorth-Denton AirportSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-Fort14290 MorrisSuthSuthSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Worth-Eagle MountainDido Newark Rd,Chemilumine-EmissionsMax Precursor	Dallas-Fort				Speciated								
Dallas-FortDenton AirportDenton AirportTemperaturePAMS,AspiratedMax OzoneArlington481210034 SouthSouth, Denton(Outdoor)SLAMSThermister PotentiometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportPAMS,CupMax OzoneWorth-Denton AirportDenton AirportPAMS,CupMax OzoneArlington481210034 SouthSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-Fort14290 Morris14290 MorrisMax PrecursorMax PrecursorMax PrecursorWorth-Eagle MountainDido Newark Rd,Chemilumine-EmissionsEmissions	Worth-		Denton Airport	Denton Airport	VOC	PAMS,	Canister GC-	24 Hours;		Population			
Worth- ArlingtonDenton Airport South, DentonTemperature (Outdoor)PAMS, SLAMSAspiratedMax OzoneArlington481210034 SouthSouth, Denton(Outdoor)SLAMSThermister PotentiometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortDenton AirportDenton AirportDenton AirportPAMS,CupMax OzoneArlington481210034 SouthSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-FortSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-Fort14290 Morris14290 MorrisHarmingtonChemilumine-Max PrecursorMax PrecursorWorth-Eagle MountainDido Newark Rd,Chemilumine-Chemilumine-Emissions		481210034	South	South, Denton	(Canister)	SLAMS	MS	1/6 Days	Rural	Exposure	Urban Scale	33.21907	-97.19628
Arlington       481210034 South       South, Denton       (Outdoor)       SLAMS       Thermister       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       Potentiometer       Potentiometer       Potentiometer       Max Ozone         Worth-       Denton Airport       Denton Airport       PAMS,       Cup       Max Ozone         Arlington       481210034 South       South, Denton       Wind       SLAMS       Anemometer       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Arlington       481210034 South       South, Denton       Wind       SLAMS       Anemometer       Continuous       Rural       Concentration       Urban Scale       33.21907       -97.19628         Dallas-Fort       14290 Morris       Max Precursor       Max Precursor       Max Precursor       Max Precursor       Max Precursor         Worth-       Eagle Mountain       Dido Newark Rd,       Chemilumine-       Emissions       Emissions			Dealers	D. I. I.	<b>.</b>	DAMO	<b>A</b>			N. 0			
Dallas-Fort     Potentiometer       Worth-     Denton Airport     Denton Airport     PAMS,     Cup     Max Ozone       Arlington     481210034 South     South, Denton     Wind     SLAMS     Anemometer     Continuous     Rural     Concentration     Urban Scale     33.21907     -97.19628       Dallas-Fort     14290 Morris     Max Precursor       Worth-     Eagle Mountain     Dido Newark Rd,     Chemilumine-     Emissions		401210024	•		•	,	•	Continue	Durrol		Linhan Casta	22 21007	07 10000
Worth-Denton AirportDenton AirportPAMS,CupMax OzoneArlington481210034 SouthSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrban Scale33.21907-97.19628Dallas-Fort14290 Morris14290 MorrisMax PrecursorMax PrecursorMax PrecursorWorth-Eagle MountainDido Newark Rd,Chemilumine-EmissionsEmissions		481210034	South	South, Denton	(Outdoor)	SLAMS		Continuous	Kurai	Concentration	Urban Scale	33.21907	-97.19628
Arlington481210034 SouthSouth, DentonWindSLAMSAnemometerContinuousRuralConcentrationUrbanScale33.21907-97.19628Dallas-Fort14290 MorrisMax PrecursorWorth-Eagle MountainDido Newark Rd,Chemilumine-Emissions			Denton Airport	Denton Airport		PAMS.				Max Ozone			
Dallas-Fort     14290 Morris     Max Precursor       Worth-     Eagle Mountain     Dido Newark Rd,     Chemilumine-     Emissions		481210034	•		Wind	,	•	Continuous	Rural		Urban Scale	33.21907	-97.19628
	Dallas-Fort					-							
Arlington 484390075 Lake Eagle Mountain NO/NO2/NOx SPM scence Continuous Rural Impact Urban Scale 32 98789 -97 47718			-				Chemilumine-			Emissions			
	Arlington	484390075	Lake	Eagle Mountain	NO/NO2/NOx	SPM	scence	Continuous	Rural	Impact	Urban Scale	32.98789	-97.47718

T				<b>C</b>			0					
Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort			14290 Morris									
Worth-		Eagle Mountain	Dido Newark Rd,						Max Ozone			
Arlington	484390075	Lake	Eagle Mountain	03	SLAMS	UV Photometric	Continuous	Rural	Concentration	Neighborhood	32.98789	-97.47718
Dallas-Fort			14290 Morris									
Worth-		Eagle Mountain	Dido Newark Rd,	Solar					Highest			
Arlington	484390075	Lake	Eagle Mountain	Radiation	SPM	Photovoltaic	Continuous	Rural	Concentration	Middle Scale	32.98789	-97.47718
Dallas-Fort			14290 Morris									
Worth-			Dido Newark Rd,			Aspirated			Highest			
Arlington	484390075	Lake	Eagle Mountain	(Outdoor)	SPM	Thermister	Continuous	Rural	Concentration	Middle Scale	32.98789	-97.47718
Dallas-Fort			14290 Morris			Potentiometer						
Worth-		2	Dido Newark Rd,			Cup			Highest			
Arlington	484390075	Lake	Eagle Mountain	Wind	SPM	Anemometer	Continuous	Rural	Concentration	Middle Scale	32.98789	-97.47718
Dallas-Fort			2424 814				24.11	المتعام المتعام	De la la la c			
Worth-	404400064	Frankright	3434 Bickers,			HiVol	24 Hours;	Urban and	Population	No. 1 - Is Is a start of		00 07057
Arlington Dallas-Fort	481130061	Earhart Fort Worth	Dallas	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Center City	Exposure Max Precursor	Neighborhood	32.78536	-96.87657
Worth-		California	1198 California		Near Dead	Coo Filtor		Urban and				
	404201052		Parkway North,	<u> </u>	Near Road,	Gas Filter	Cantinuau		Emissions	Missessels	22 66475	07 22702
Arlington Dallas-Fort	484391053	Parkway North Fort Worth	1198 California	CO	SLAMS	Correlation	Continuous	Center City	Impact Max Precursor	Microscale	32.66475	-97.33792
Worth-		California			Near Road,	Chemilumine-		Urban and	Emissions			
	494201052		Parkway North,				Continuous			Microcolo	22 66475	07 22702
Arlington Dallas-Fort	484391055	Parkway North Fort Worth	1198 California	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Impact	Microscale	32.66475	-97.33792
Worth-		California	Parkway North,		Near Road,	Beta		Urban and	Population			
	494201052	Parkway North		PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Exposure	Microcolo	32,66475	-97.33792
Arlington Dallas-Fort	404391033	Fort Worth	1198 California	PMZ.5 (Deld)	QA	Allenuation	Continuous	Center City	Lxposure	Microscale	32.00475	-97.55/92
Worth-		California	Parkway North,		Collocated,	Beta		Urban and	Quality			
Arlington	484301053		Fort Worth	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Assurance	Microscale	32,66475	-97,33792
Dallas-Fort	404391033	Fort Worth	1198 California	FMZ.3 (Deta)	SLAMS	Allenuation	Continuous	Center City	Max Precursor	MICIOSCAIE	52.00475	-97.33792
Worth-		California	Parkway North,	Temperature		Aspirated		Urban and	Emissions			
Arlington	484391053	Parkway North	, ,	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	32,66475	-97.33792
Dallas-Fort	+0+351033	Fort Worth	1198 California	(00000)	5111	Potentiometer	continuous	center eity	Max Precursor	Theroseale	52.00475	57.55752
Worth-		California	Parkway North,			Cup		Urban and	Emissions			
Arlington	484391053	Parkway North	, ,	Wind	SPM	Anemometer	Continuous	Center City	Impact	Microscale	32.66475	-97.33792
Dallas-Fort	101091000	rannay north			0	,	24 Hours	conter enty	Max Precursor	- norobodito	52100175	57133752
Worth-		Fort Worth	3317 Ross Ave,		PAMS,	DNPH Silica	1/6 days;	Urban and	Emissions			
Arlington	484391002	Northwest	Fort Worth	Carbonyl	SLAMS	HPLC	Seasonal	Center City	Impact	Neighborhood	32.80581	-97.35653
Dallas-Fort						-		<b>,</b>	P	<b>,</b>		
Worth-		Fort Worth	3317 Ross Ave,					Urban and	Population			
Arlington	484391002	Northwest	Fort Worth	Dew Point	SPM	Derived at site	Continuous	Center City	Exposure	Middle Scale	32.80581	-97.35653
								,	Max Precursor			
									Emissions			
Dallas-Fort									Impact;			
Worth-		Fort Worth	3317 Ross Ave,		PAMS,	Chemilumine-		Urban and	Population			
Arlington	484391002	Northwest	Fort Worth	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Exposure	Neighborhood	32.80581	-97.35653
									Max Precursor	<u> </u>		
									Emissions			
Dallas-Fort									Impact;			
Worth-		Fort Worth	3317 Ross Ave,		PAMS,			Urban and	Population			
Arlington	484391002	Northwest	Fort Worth	03	SLAMS	UV Photometric	Continuous	Center City	Exposure	Neighborhood	32.80581	-97.35653

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort				1,100			concurre	Joetting				
Worth-		Fort Worth	3317 Ross Ave,			Beta		Urban and	Population			
Arlington	484391002	Northwest	Fort Worth	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Exposure	Neighborhood	32.80581	-97.35653
Dallas-Fort									Max Precursor			
Worth-		Fort Worth	3317 Ross Ave,	Relative	PAMS,	Humidity		Urban and	Emissions			
Arlington	484391002	Northwest	Fort Worth	Humidity	SLAMS	Sensor	Continuous	Center City	Impact	Neighborhood	32.80581	-97.35653
Dallas-Fort		<b>E</b>	2217 0	Cala	DAMO			the base and	Max Precursor			
Worth-	404201002	Fort Worth	3317 Ross Ave,	Solar	PAMS,	Dhatavaltaia	Cantinuau	Urban and	Emissions	N a cala la avia a a d		07 25652
Arlington	484391002	Northwest	Fort Worth	Radiation	SLAMS	Photovoltaic	Continuous	Center City	Impact Max Precursor	Neighborhood	32.80581	-97.35653
									Emissions			
Dallas-Fort									Impact;			
Worth-		Fort Worth	3317 Ross Ave,	Speciated	PAMS,			Urban and	Population			
Arlington	484391002	Northwest	Fort Worth	VOC (AutoGC)	SLAMS	GC	Continuous	Center City	Exposure	Neighborhood	32.80581	-97.35653
Dallas-Fort								,	Max Precursor			
Worth-		Fort Worth	3317 Ross Ave,	Temperature	PAMS,	Aspirated		Urban and	Emissions			
Arlington	484391002	Northwest	Fort Worth	(Outdoor)	SLAMS	Thermister	Continuous	Center City	Impact	Neighborhood	32.80581	-97.35653
									Max Precursor			
									Emissions			
Dallas-Fort		<b>E</b>	2217 0	THMOS	DAMO			the base and	Impact;			
Worth-	40 420 1 002	Fort Worth	3317 Ross Ave,	TNMOC	PAMS,	<u></u>	C. I.	Urban and	Population	No. to be to be a set	22 00501	07 25652
Arlington Dallas-Fort	484391002	Northwest	Fort Worth	(AutoGC)	SLAMS	GC Potentiometer	Continuous	Center City	Exposure Max Precursor	Neighborhood	32.80581	-97.35653
Worth-		Fort Worth	3317 Ross Ave,		PAMS,	Cup		Urban and	Emissions			
Arlington	484391002		Fort Worth	Wind	SLAMS	Anemometer	Continuous	Center City	Impact	Neighborhood	32.80581	-97.35653
Dallas-Fort	101351002	Northwest		Willa	36413	Allemonicter	continuous	center eity	Impact	Neighbornood	52.00501	57.55655
Worth-			6590 Hillcrest						Population			
Arlington	480850005	Frisco	Road, Frisco	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	33.13240	-96.78642
Dallas-Fort												
Worth-			6590 Hillcrest	Solar					General,			
Arlington	480850005	Frisco	Road, Frisco	Radiation	SPM	Photovoltaic	Continuous	Suburban	Background	Urban Scale	33.13240	-96.78642
Dallas-Fort				T		Assistant						
Worth-	400050005	Evines	6590 Hillcrest	Temperature	CDM	Aspirated	Cantinuau	Culture	General,		22 1 22 40	06 70640
Arlington Dallas-Fort	480850005	Frisco	Road, Frisco	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Suburban	Background	Urban Scale	33.13240	-96.78642
Worth-			6590 Hillcrest			Cup			General,			
Arlington	480850005	Frisco	Road, Frisco	Wind	SPM	Anemometer	Continuous	Suburban	Background	Urban Scale	33.13240	-96.78642
, and geon	100050005	111000		, , , , , , , , , , , , , , , , , , ,	5111	, and motified en	continuous	Suburbur	Buckground	orban ocale	55115210	50170012
Dallas-Fort									Population			
Worth-			6601 Eubanks,	Temperature		Aspirated			Exposure;			
Arlington	480850009	Frisco Eubanks	Frisco	(Outdoor)	SPM	Thermister	Continuous	Suburban	Source Oriented	Neighborhood	33.14466	-96.82881
Dallas-Fort									Population			
Worth-	400050000	E	6601 Eubanks,				24 Hours;		Exposure;	Nuclei I.	22 4 4 4 6 6	06.00007
Arlington	480850009	Frisco Eubanks	Frisco	TSP (Pb)	SLAMS	HiVol ICP-MS	1/6 Days	Suburban	Source Oriented	Neighborhood	33.14466	-96.82881
Dallas-Fort					QA				Population			
Worth-			6601 Eubanks,		Collocated,		24 Hours;		Exposure;			
Arlington	480850009	Frisco Eubanks		TSP (Pb)	SLAMS	HiVol ICP-MS	1/12 Days	Suburban	Source Oriented	Neighborhood	33.14466	-96.82881
, anngcon	100000009		111000		00/110		1,12 00,3	Sabarbari		Heighborhood	55.14400	50.02001

Texas MSA -	AQS Site	Cite Norme	Address -	Sampler	Network		Operating	Location	Monitoring		I attenda	l e u eltrado
CBSA	Number	Site Name	Location	Туре	Network	Methods	Schedule	Setting	Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort						Potentiometer						
Worth-			6601 Eubanks,			Cup			Population			
Arlington	480850009	Frisco Eubanks	Frisco	Wind (3m)	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	33.14466	-96.82881
Dallas-Fort									Population			
Worth-		Frisco	7202 Stonebrook				24 Hours;		Exposure;			
Arlington	480850029	Stonebrook	Parkway, Frisco	TSP (Pb)	SPM	HiVol ICP-MS	1/6 Days	Suburban	Source Oriented	Neighborhood	33.13602	-96.82447
Dallas-Fort						Barometric						
Worth-		Grapevine	4100 Fairway Dr,		PAMS,	pressure	<b>a</b>		Max Ozone			
Arlington	484393009	Fairway	Grapevine	Pressure	SLAMS	transducer	Continuous	Suburban	Concentration Highest	Neighborhood	32.98426	-97.06372
Dallas-Fort									Concentration;			
Worth-		Grapevine	4100 Fairway Dr,						Max Ozone			
Arlington	484393009	•	Grapevine	Dew Point	SPM	Derived at site	Continuous	Suburban	Concentration	Neighborhood	32.98426	-97.06372
		·							Max Ozone			
Dallas-Fort		<b>a</b> .							Concentration;			
Worth-	404202000	Grapevine	4100 Fairway Dr,		PAMS,	Chemilumine-	Cantinuau	Cubuubau	Population	N a cala la avela a a d	22.00426	07 06 272
Arlington	484393009	Fairway	Grapevine	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure Max Ozone	Neighborhood	32.98426	-97.06372
Dallas-Fort									Concentration;			
Worth-		Grapevine	4100 Fairway Dr,		PAMS,				Population			
Arlington	484393009	Fairway	Grapevine	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	32.98426	-97.06372
Dallas-Fort		<b>a</b> .			54446							
Worth-	404202000	Grapevine	4100 Fairway Dr,		PAMS,	Humidity	Continuous	Cuburban	Max Ozone	Naiabbarbaad	22.00426	07 06 272
Arlington Dallas-Fort	484393009	Fallway	Grapevine	Humidity	SLAMS	Sensor	Continuous	Suburban	Concentration	Neighborhood	32.98426	-97.06372
Worth-		Grapevine	4100 Fairway Dr,	Solar	PAMS,				Max Ozone			
Arlington	484393009	Fairway		Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Concentration	Neighborhood	32.98426	-97.06372
									Max Ozone			
Dallas-Fort		Cuencia	4100 Fairman Du	Speciated	DAMO	Consisten CC	24.11		Concentration;			
Worth- Arlington	484393009	Grapevine	4100 Fairway Dr, Grapevine		PAMS, SLAMS	Canister GC- MS	24 Hours; 1/6 Days	Suburban	Population Exposure	Naiabharhaad	32.98426	-97.06372
Dallas-Fort	404393009	Fallway	Grapeville	(Canister)	SLAMS		1/0 Days	Suburban	Lxposure	Neighborhood	32.96420	-97.00372
Worth-		Grapevine	4100 Fairway Dr,	Temperature	PAMS,	Aspirated			Max Ozone			
Arlington	484393009	Fairway	Grapevine	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Concentration	Neighborhood	32.98426	-97.06372
Dallas-Fort		- ·				Potentiometer						
Worth-	40400000	Grapevine	4100 Fairway Dr,	MC	PAMS,	Cup	Carl		Max Ozone	No. to be to be a set	22.00426	07 06070
Arlington	484393009	Fairway	Grapevine	Wind	SLAMS	Anemometer	Continuous	Suburban	Concentration Population	Neighborhood	32.98426	-97.06372
Dallas-Fort									Exposure;			
Worth-			824 Sayle Street,			Chemilumine-			Upwind			
Arlington	482311006	Greenville	Greenville	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Background	Neighborhood	33.15309	-96.11557
									Population			
Dallas-Fort			924 Cauda Chura I						Exposure;			
Worth- Arlington	482311006	Greenville	824 Sayle Street, Greenville	03	SLAMS	UV Photometric	Continuous	Suburban	Upwind Background	Neighborhood	33.15309	-96.11557
Dallas-Fort	402311000	Greenville	Greenville	05	JLAMS		Continuous	Suburball	Backyrounu	Neighborhood	55.15509	-90.11557
Worth-			824 Sayle Street,	Solar					General,			
Arlington	482311006	Greenville	Greenville	Radiation	SPM	Photovoltaic	Continuous	Suburban	Background	Neighborhood	33.15309	-96.11557

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort											11	
Worth-			824 Sayle Street,	Temperature		Aspirated			General,			
Arlington	482311006	Greenville	Greenville	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	33.15309	-96.11557
Dallas-Fort						Potentiometer						
Worth-			824 Sayle Street,			Cup			General,			
Arlington	482311006	Greenville	Greenville	Wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	33.15309	-96.11557
Dallas-Fort			600 1/2									
Worth-		Haws Athletic	Congress St, Fort			Beta		Urban and	Population			
Arlington	484391006	Center	Worth	PM2.5 (Beta)	SPM	Attenuation	Continuous	Center City	Exposure	Neighborhood	32.75915	-97.34233
Dallas-Fort												
Worth-		<b>T</b> . 1	900 FM 667 Ellis		0.014		<b>A</b> 11		Upwind			
Arlington Dallas-Fort	481391044	Italy	County, Italy	Dew Point	SPM	Derived at site	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Worth-					DAMC	Chamilumina			L las sector al			
	401201044	The lui	900 FM 667 Ellis		PAMS,	Chemilumine-	Cantinuau	Dunal	Upwind De alsonaura d	Linhan Caala	22 175 42	06 07010
Arlington Dallas-Fort	481391044	- Italy	County, Italy	NO/NO2/NOx	SLAMS	scence	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Worth-			900 FM 667 Ellis		PAMS,				Upwind			
Arlington	481391044	Italy	County, Italy	03	SLAMS	UV Photometric	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort	401391044		County, Italy	05	SLAMS	ov Filotometric	Continuous	Kulai	Dackground	UIDall Scale	52.17542	-90.87019
Worth-			900 FM 667 Ellis	Relative	PAMS,	Humidity			Upwind			
Arlington	481391044	Italy	County, Italy	Humidity	SLAMS	Sensor	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort	101351011	itary	county, italy	namarcy	36/(13	501501	continuous	Rurur	Buckground	orban Seale	52.17512	50.07015
Worth-			900 FM 667 Ellis	Solar	PAMS,				Upwind			
Arlington	481391044	Italy	County, Italy	Radiation	SLAMS	Photovoltaic	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort	101091011	100.7		Speciated	01110	Theterentare	Continuouo	. car car		erban etale	02117012	50107015
Worth-			900 FM 667 Ellis	VOC	PAMS,	Canister GC-	24 Hours;		Upwind			
Arlington	481391044	Italy	County, Italy	(Canister)	SLAMS	MS	1/6 Days	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort				. ,								
Worth-			900 FM 667 Ellis	Temperature	PAMS,	Aspirated			Upwind			
Arlington	481391044	Italy	County, Italy	(Outdoor)	SLAMS	Thermister	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort												
Worth-			900 FM 667 Ellis		PAMS,				Upwind			
Arlington	481391044	Italy	County, Italy	UV Radiation	SLAMS	Photovoltaic	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort						Potentiometer						
Worth-			900 FM 667 Ellis		PAMS,	Cup			Upwind			
Arlington	481391044	Italy	County, Italy	Wind	SLAMS	Anemometer	Continuous	Rural	Background	Urban Scale	32.17542	-96.87019
Dallas-Fort		1.1	2420 1 1 1	<b>T</b>		A			De la la la			
Worth-	402544025	Johnson	2420 Luisa Ln,	Temperature	CDM	Aspirated	Carl		Population	Nuclei la	22 46070	07 1 0007
Arlington	482511008	County Luisa	Alvarado	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	32.46970	-97.16927
Dallas-Fort		lohncon	2420 Luiss La			Potentiometer			Dopulation			
Worth-	402511000	Johnson	2420 Luisa Ln,	Mind	CDM	Cup	Continue	Cuburbar	Population	Noighbarbaar	22 46070	07 1 0007
Arlington Dallas-Fort	482511008	County Luisa	Alvarado	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	32.46970	-97.16927
Worth-			3790 S Houston						Highest			
	482570005	Kaufman	St, Kaufman	Dew Point	SPM	Derived at cita	Continuous	Suburban	Concentration	Neighborhood	32.56497	-96.31769
Arlington	4023/0005	Rduiiidii	St, Kauilidii	Dew Point	3819	Derived at site	Continuous	Suburball	Population	Neighborhood	32.3049/	-90.31/09
Dallas-Fort									Exposure;			
Worth-			3790 S Houston		PAMS,	Chemilumine-			Upwind	Neighborhood,		
Arlington	482570005	Kaufman	St, Kaufman	NO/NO2/NOx	,	scence	Continuous	Suburban	Background	Urban Scale	32.56497	-96.31769
, anngcon	102570005	Rauman		110/1102/1104	50415	Sterice	continuous	Suburban	Buckground	Sibul Stat	52.50757	50.51705

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort									Population Exposure;			
Worth-			3790 S Houston		PAMS,				Upwind			
Arlington	482570005	Kaufman	St, Kaufman	03	SLAMS	UV Photometric	Continuous	Suburban	Background	Urban Scale	32.56497	-96.31769
Dallas-Fort Worth-			3790 S Houston	PM2.5		ТЕОМ			Upwind			
Arlington	482570005	Kaufman	St, Kaufman	(TEOM) <sup>N</sup>	SPM	Gravimetric	Continuous	Suburban	Background	Regional Scale	32.56497	-96.31769
Dallas-Fort	102370003	Raaman		(12011)	0111	Gravineene	continuous	Suburbur	Buckground	Regional Scale	52.50157	50.51705
Worth-			3790 S Houston	Relative	PAMS,	Humidity			Upwind			
Arlington	482570005	Kaufman	St, Kaufman	Humidity	SLAMS	Sensor	Continuous	Suburban	Background	Urban Scale	32.56497	-96.31769
Dallas-Fort									Population Exposure;			
Worth-			3790 S Houston			Pulsed			Upwind			
Arlington	482570005	Kaufman	St, Kaufman	SO2	SLAMS	Fluorescence	Continuous	Suburban	Background	Neighborhood	32.56497	-96.31769
Dallas-Fort												
Worth-			3790 S Houston	Solar	PAMS,		<b>a</b>		Upwind			
Arlington Dallas-Fort	482570005	Kaufman	St, Kaufman	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Background	Urban Scale	32.56497	-96.31769
Worth-			3790 S Houston	Temperature	PAMS,	Aspirated			Upwind			
Arlington	482570005	Kaufman	St, Kaufman	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Urban Scale	32.56497	-96.31769
Dallas-Fort						Potentiometer						
Worth-			3790 S Houston		PAMS,	Cup			Upwind			
Arlington Dallas-Fort	482570005	Kaufman	St, Kaufman FAA Site off Alta	Wind	SLAMS	Anemometer	Continuous	Suburban	Background Max Precursor	Urban Scale	32.56497	-96.31769
Worth-			Vista Road, Fort		PAMS,	Chemilumine-			Emissions			
Arlington	484392003	Keller	Worth	NO/NO2/NOx	- /	scence	Continuous	Suburban	Impact	Urban Scale	32.92249	-97.28210
									Max Ozone			
Dallas-Fort			FAA Site off Alta		54446				Concentration;			
Worth- Arlington	484392003	Kollor	Vista Road, Fort Worth	03	PAMS, SLAMS	UV Photometric	Continuous	Suburban	Population Exposure	Neighborhood	32,92249	-97.28210
Dallas-Fort	404392003	Kellel	FAA Site off Alta	03	SLAMS	ov motometric	Continuous	Suburban	Lxposule	Neighborhood	32.92249	-97.20210
Worth-			Vista Road, Fort	Solar	PAMS,				General,			
Arlington	484392003	Keller	Worth	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Background	Urban Scale	32.92249	-97.28210
Dallas-Fort			FAA Site off Alta	<b>-</b>	DAMO	<b>A</b>						
Worth-	484392003	Kollor	Vista Road, Fort Worth	(Outdoor)	PAMS, SLAMS	Aspirated Thermister	Continuous	Suburban	General,	Urban Scale	32,92249	-97.28210
Arlington Dallas-Fort	404392003	Kellel	FAA Site off Alta	(Outdoor)	SLAMS	Potentiometer	Continuous	Suburban	Background	UIDali Scale	32.92249	-97.20210
Worth-			Vista Road, Fort		PAMS,	Cup			General,			
Arlington	484392003	Keller	Worth	Wind	SLAMS	Anemometer	Continuous	Suburban	Background	Urban Scale	32.92249	-97.28210
Dallas-Fort			2725 Old Fort									
Worth-	491200016	Midlothion OFW	Worth Road, Midlothian		CLAME	Chemilumine-	Continuous	Suburban	Source Oriented	Naighborhood	22 40200	07 02600
Arlington Dallas-Fort	481390016	Midlothian OFW	2725 Old Fort	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Source Oriented	Neignbornood	32.48208	-97.02690
Worth-			Worth Road,						Population			
Arlington	481390016	Midlothian OFW	,	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	32.48208	-97.02690
									<b>B</b>			
Dallas-Fort Worth-			2725 Old Fort			Sequential EDM	24 Hours		Population			
Arlington	481390016	Midlothian OFW	Worth Road, Midlothian	PM2.5 (FRM)	SPM	Sequential FRM Gravimetric	24 Hours; 1/6 Days	Suburban	Exposure; Source Oriented	Regional Scale	32.48208	-97.02690
Anngton	+01330010				5111	Stavinetite	1/0 Days	Suburban	Source Orienteu	Regional Scale	52.40200	57.02090

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort			2725 Old Fort			Carbons,			Population			
Worth-			Worth Road,	PM2.5		Elements, Ions,	24 Hours;		Exposure;	Neighborhood,		
Arlington	481390016	Midlothian OFW	Midlothian	(Speciation)	SPM	2025/URG	1/6 Days	Suburban	Source Oriented	Regional Scale	32.48208	-97.02690
Dallas-Fort			2725 Old Fort	5.40 5								
Worth-			Worth Road,	PM2.5		TEOM			Regional			
Arlington	481390016	Midlothian OFW		(TEOM) <sup>N</sup>	SPM	Gravimetric	Continuous	Suburban	Transport	Regional Scale	32.48208	-97.02690
Dallas-Fort			2725 Old Fort			Dulaad						
Worth- Arlington	401200016	Midlathian OEW	Worth Road,	S02	SLAMS	Pulsed	Continuous	Suburban	Source Oriented	Naighborhood	22 40200	07 02600
Dallas-Fort	481390016	Midlothian OFW	2725 Old Fort	502	SLAM5	Fluorescence	Continuous	Suburban	Source Oriented	Neighborhood	32.48208	-97.02690
Worth-			Worth Road,	Solar					General,			
Arlington	481390016	Midlothian OFW	,	Radiation	SPM	Photovoltaic	Continuous	Suburban	Background	Neighborhood	32.48208	-97.02690
Dallas-Fort			2725 Old Fort									
Worth-			Worth Road,	Temperature		Aspirated			General,			
Arlington	481390016	Midlothian OFW	Midlothian	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	32.48208	-97.02690
Dallas-Fort			2725 Old Fort			Potentiometer						
Worth-			Worth Road,			Cup			General,			
Arlington	481390016	Midlothian OFW		Wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	32.48208	-97.02690
Dallas-Fort			3033 New						Donulation			
Worth-	402670001	Darker County	Authon Rd, Weatherford	03	SLAMS	LIV ( Dhatamatria	Continuous	Durral	Population	Urban Caala	22 06077	
Arlington Dallas-Fort	483670081	Parker County	3033 New	03	SLAMS	UV Photometric	Continuous	Rural	Exposure	Urban Scale	32.86877	-97.90593
Worth-			Authon Rd,	Solar								
Arlington	483670081	Parker County	Weatherford	Radiation	SPM	Photovoltaic	Continuous	Rural	Source Oriented	Neiahborhood	32.86877	-97,90593
Dallas-Fort	100070001		3033 New								02100077	57.150050
Worth-			Authon Rd,	Temperature		Aspirated						
Arlington	483670081	Parker County	Weatherford	(Outdoor)	SPM	Thermister	Continuous	Rural	Source Oriented	Neighborhood	32.86877	-97.90593
Dallas-Fort			3033 New			Potentiometer						
Worth-			Authon Rd,			Cup						
Arlington	483670081	Parker County	Weatherford	Wind	SPM	Anemometer	Continuous	Rural	Source Oriented	Neighborhood	32.86877	-97.90593
Dallas-Fort			702 E Northoide						Donulation			
Worth- Arlington	481211032	Dilat Daint	792 E Northside Dr, Pilot Point	03	SLAMS	UV Photometric	Continuous	Suburban	Population	Decisnal Coolo	33.41065	-96.94459
Dallas-Fort	401211032		DI, PIIOL POIIIL	03	SLAMS	ov Photometric	Continuous	Suburban	Exposure	Regional Scale	55.41005	-90.94459
Worth-			792 E Northside	Solar					Upwind			
Arlington	481211032	Pilot Point	Dr, Pilot Point	Radiation	SPM	Photovoltaic	Continuous	Suburban	Background	Regional Scale	33.41065	-96.94459
Dallas-Fort									<u> </u>			
Worth-			792 E Northside	Temperature		Aspirated			Upwind			
Arlington	481211032	Pilot Point	Dr, Pilot Point	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Regional Scale	33.41065	-96.94459
Dallas-Fort						Potentiometer						
Worth-			792 E Northside			Cup	<b>a</b>		Upwind			
Arlington	481211032	Pilot Point	Dr, Pilot Point	Wind	SPM	Anemometer	Continuous	Suburban	Background	Regional Scale	33.41065	-96.94459
Dallas-Fort			100 E Ucath Ct						Dopulation			
Worth-	492070001	Rockwall Heath	100 E Heath St,	03	SLAMS	LIV Photomotric	Continuous	Suburban	Population	Noighborhood	22 02652	06 45021
Arlington Dallas-Fort	403970001		NUCKWAII	05	JLAI'IS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	32.93652	-96.45921
Worth-			100 E Heath St,	Solar					Population			
Arlington	483970001	Rockwall Heath	,	Radiation	SPM	Photovoltaic	Continuous	Suburban	Exposure	Neighborhood	32.93652	-96.45921
							20	2404.041			02.90002	50.10521

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Dallas-Fort												
Worth-			100 E Heath St,	Temperature		Aspirated			Population			
Arlington	483970001	L Rockwall Heath	Rockwall	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	32.93652	-96.45921
Dallas-Fort						Potentiometer			Demulation			
Worth- Arlington	492070001	L Rockwall Heath	100 E Heath St,	Wind	SPM	Cup	Continuous	Suburban	Population Exposure	Neighborhood	32.93652	-96.45921
Dallas-Fort	463970001		NUCKWAII	wina	58191	Anemometer	Continuous	Suburban	LXPOSULE	Neighborhood	32.93032	-90.45921
Worth-			2988 Temtex	Temperature		Aspirated			General,			
Arlington	482570020	) Terrell Temtex	Blvd, Terrell	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	32.73192	-96.31791
Dallas-Fort			2000 T				24.11		Population			
Worth-	492570020	) Torroll Torrow	2988 Temtex		CLAMC		24 Hours;	Dumpl	Exposure;	Naiabbarbaad	22 72102	06 21701
Arlington	482570020	) Terrell Temtex	Biva, Terrell	TSP (Pb)	SLAMS	HiVol ICP-MS	1/6 Days	Rural	Source Oriented	Neighbornood	32.73192	-96.31791
Dallas-Fort					QA				Population			
Worth-			2988 Temtex		Collocated,		24 Hours;		Exposure;			
Arlington	482570020	) Terrell Temtex	Blvd, Terrell	TSP (Pb)	SLAMS	HiVol ICP-MS	1/12 Days	Rural	Source Oriented	Neighborhood	32.73192	-96.31791
Dallas-Fort						Potentiometer						
Worth-			2988 Temtex		~~~	Cup	<b>.</b>		General,			
Arlington	482570020	) Terrell Temtex	Blvd, Terrell 265 Foster	Wind (3m)	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	32.73192	-96.31791
			Maldonado,			Beta		Urban and	Regional			
Eagle Pass*	483230004	1 Eagle Pass	Eagle Pass	PM2.5 (Beta)	SPM	Attenuation	Continuous	Center City	Transport	Regional Scale	28.70461	-100.45116
249.01400		ug.e . use	265 Foster		0		Continuouo		nanopore	rtegional o care	20110101	100110110
			Maldonado,	Temperature		Aspirated		Urban and	Regional			
Eagle Pass*	483230004	1 Eagle Pass	Eagle Pass	(Outdoor)	SPM	Thermister	Continuous	Center City	Transport	Regional Scale	28.70461	-100.45116
			265 Foster			\/; = :  = :   : <del> </del> :			Designal			
Eagle Dace*	40222000/	1 Eagle Dace	Maldonado,	Vicibility	CDM	Visibility	Continuous	Urban and	Regional	Degional Scale	20 70461	100 45116
Eagle Pass*	483230004	1 Eagle Pass	Eagle Pass 265 Foster	Visibility	SPM	Sensor Potentiometer	Continuous	Center City	Transport	Regional Scale	28.70461	-100.45116
			Maldonado,			Cup		Urban and	Regional			
Eagle Pass*	483230004	4 Eagle Pass	Eagle Pass	Wind	SPM	Anemometer	Continuous	Center City	Transport	Regional Scale	28.70461	-100.45116
								·	Max Ozone	-		
			650 R E			Barometric			Concentration;			
	10111005	Ascarate Park	Thomason Loop,	Barometric	PAMS,	pressure	<b>A</b> 11		Upwind		24 24620	106 10001
El Paso	481410055	5 SE	El Paso	Pressure	SLAMS	transducer	Continuous	Suburban	Background Highest	Neighborhood	31.74678	-106.40281
			650 R E						Concentration;			
		Ascarate Park	Thomason Loop,						Upwind			
El Paso	481410055		El Paso	Dew Point	SPM	Derived at site	Continuous	Suburban	Background	Urban Scale	31.74678	-106.40281
									Highest			
			650 R E						Concentration;			
	404 44 00	Ascarate Park	Thomason Loop,		PAMS,	Chemilumine-	Conti		Upwind	Neighborhood,	24 74676	106 1000
El Paso	481410055	5 SE	El Paso	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Background Max Ozone	Urban Scale	31./4678	-106.40281
			650 R E						Concentration;			
		Ascarate Park	Thomason Loop,		PAMS,				Upwind			
El Paso	481410055		El Paso	03	SLAMS	UV Photometric	Continuous	Suburban	Background	Neighborhood	31.74678	-106.40281
									-			

CBSA         Number         Location         Type         Schedule         Setting         Objective         Accurate Park           El Paso         Ascarate Park         Teol/*         TEOM         FEOM         Paso         Paso<	Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude	Longitude
Ascarate Park       Tromason Loop, Ascarate Park       PM2.5 (TEOM) <sup>N</sup> TEOM SPM       Oravimetric Gravimetric       Continuous       Suburban       Resposure Max Ozone Upwind       Heighborhood       31.74678       -106.40         El Paso       481410055 SE       El Paso       Humidity       Sensor       Continuous       Suburban       Concentration; Upwind       Upwind       Neighborhood       31.74678       -106.40         El Paso       481410055 SE       El Paso       Relative       PAMS, El Paso       Paso       Paso       Neighborhood       31.74678       -106.40         Ascarate Park       Tomason Loop, Reacarate Park       Solar       Realiation       SLAMS       Photovoltaic       Continuous       Suburban       Rackground       Neighborhood       31.74678       -106.40         Max Ozone       Concentration; Upwind       Upwind       Solar       El Paso       Thomason Loop, El Paso       Thomason Loop, El Paso       Thomason Loop, El Paso       Visibility       SPM       Sensor       Continuous       Suburban       Edegrad       Urban Scale       31.74678       -106.40         Background       Neighborhood       31.74678       Visibility       Sensor       Continuous       Suburban       Concentration; Upwind       Urban Scale       31.74678	CBSA	Number			Туре			Schedule	Setting	Objective			Longitude
El Paso 481410055 SE El Paso (TEOM) <sup>®</sup> SPM Gravimetric Continuous Suburban Probation; Accarate Park Formason Loop, Relative FI Paso Humidity SLAMS Sensor Continuous Suburban Reighborhood 31.74678 -106.40; Max Ozone Concentration; Upwind Background Neighborhood 31.74678 -106.40; Max Ozone Concentration; Upwind Reighborhood 31.74678 -106.40; Max Ozone Concentration; Paso 481410055 SE El Paso (Outdoor) SLAMS Thermister Continuous Suburban Reighborhood 31.74678 -106.40; Max Ozone Concentration; Population Reighborhood 31.74678 -106.40; Max Ozone Concentration; Paso Senstivity) SLAMS Anemometer Continuous Suburban Reighborhood 31.76569 -106.45; Concentration; Max Precursor Max Precursor El Paso Marcial Street, El Paso No/NO2/NOX SLAMS Scenet Continuous Center City Oxone Activition; Pass Senstivity) SLAMS Scenet Reighborhood 31.76569 -106.45; Concentration; Reighborhood 31.765			Accorate Dayle		DM2 5		теом			Donulation			
Ascarate Park         GSD R E         Max Doone         Max Doone           El Paso         481410055 SE         El Paso         Humidity         Suburban         Background         Neighborhood         31.74678         -106.40           Ascarate Park         Thomason Loop,         Solar         PMS,         Concentration;         Upwind           El Paso         481410055 SE         El Paso         Radiation         SLAMS         Photovoltaic         Continuous         Suburban         Max Doone         Concentration;         Upwind         Max Doone         Concentration;         Upwind         Max Doone         Concentration;         Upwind         Suburban         Max Doone         Concentration;         Upwind         Suburban         Rackground         Neighborhood         31.74678         -106.40;           El Paso         481410055 SE         El Paso         Visibility         SPM         Sensor         Continuous         Suburban         Background         Neighborhood         31.74678         -106.40;           El Paso         481410055 SE         El Paso         Visibility         SPM         Sensor         Continuous         Suburban         Concentration;         Population         Ascarate Park         Nacarate Park         Nacarate Park         Sensor         Cono	EL Daca	491410055		1 /	-	CDM		Continuous	Suburban		Noighborhood	21 74679	-106 40291
Accarate Park     Homason Loop, 481410055 SE     Relative IP aso     PAMS, 481410055 SE     Humidity SLAMS     Sensor     Continuous     Suburban     Neighborhood     31,74678     -106.40.       IP aso     481410055 SE     EI Paso     Radiation     Slaws     Photovoltaic     Continuous     Suburban     Neighborhood     31,74678     -106.40.       IP aso     Ascarate Park     Formason Loop, Ascarate Park     Radiation     SLAMS     Photovoltaic     Continuous     Suburban     Neighborhood     31,74678     -106.40.       IP aso     481410055 SE     IP Paso     Radiation     SLAMS     Aspirated     Upwind     Background     Neighborhood     31,74678     -106.40.       IP aso     481410055 SE     IP Paso     Continuous     Suburban     Neighborhood     31,74678     -106.40.       IP aso     Ascarate Park     Tomason Loop,     Tomason Loop,     Sensor     Continuous     Suburban     Neighborhood     31,74678     -106.40.       IP aso     481410055 SE     IP aso     Visibility     SPM     Sensor     Continuous     Suburban     Background     Neighborhood     31,74678     -106.40.       IP aso     481410055 SE     IP aso     Wind     SLAMS     Anemometer     Continuous     Suburban     Ba		401410033	JL	LIFOSO	(12014)	SFM	Gravimetric	Continuous	Suburban		Neighborhood	51.74070	-100.40201
El Paso 481410055 SE El Paso Addition SLAMS Sensor Continuous Suburban Background Neighborhood 31.74678 -106.40 Max Ozone - Max Correction: Max Ozone - Max Correction: Max Ozone - Max Correction: Upwind - Max Correction: El Paso Marcial Street, El Correlation: El Paso Marcial Street, El Correlation: El Paso Marcial Street, El Correlation: El Paso Marcial Street, El Nov (Nigh NCORE, Cas Filter - Marcial Street, El Correlation: El Paso Marcial Street, El Marcial Street, El Marcial Street, El Nov (Nigh NCORE, Sence Carrelation: El Paso Marcial Street, El Nov (Nigh NCORE, Sence API200 El Paso Marcial Street, El Nov (Nigh NCORE, Sence API200 El Paso Marcial Street, El Nov (Nigh NCORE, Sence API200 El Paso Marcial Street, El Nov (Nigh NCORE, Sence API200 El Paso Marcial Street, El Nov (Nigh NCORE, Sence API200 El Paso Marcial Street, El Nov (Nigh NCORE, Sence API				650 R E						Concentration;			
650 R E     Max Özone     Concentration;     Upwind     Concentration;     Upwind     Concentration;     Upwind     Background     Neighborhood     31.74678     -106.40;       650 R E     El Paso     Radiation     SLMS     Photovoltaic     Continuous     Suburban     Background     Neighborhood     31.74678     -106.40;       481410055 SE     El Paso     Femperature     PAMS,     Aspirated     Upwind     Background     Neighborhood     31.74678     -106.40;       481410055 SE     El Paso     (Outdoor)     SLMS     Thermister     Continuous     Suburban     Background     Neighborhood     31.74678     -106.40;       Highest     Ascarate Park     Thomason Loop,     Visibility     Sensor     Continuous     Suburban     Background     Neighborhood     31.74678     -106.40;       Highest     Ascarate Park     Thomason Loop,     Visibility     Sensor     Continuous     Suburban     Background     Neighborhood     31.74678     -106.40;       Highest     Concentration;     Upwind     Background     Neighborhood     31.74678     -106.40;       Background     Neighborhood     31.74678     Asiatal Street, El     NCORE,     Gorentration;     Upwind     Background     Neighborhood     31.74678<			Ascarate Park	Thomason Loop,	Relative	PAMS,	Humidity			Upwind			
GS0 R EConcentration; UpwindEl Paso481410055 SEEl PasoRadiationSLAMSPhotovoltaicContinuousSuburbanBackgroundNeighborhood31.74678-106.402Ascarate ParkfborEl PasoCutdoor)TemperaturePAMS, Cutdoor)AspiratedUpwindSuburbanBackgroundNeighborhood31.74678-106.402El Paso481410055 SEEl PasoCutdoor)SLAMSThermisterContinuousSuburbanBackgroundNeighborhood31.74678-106.402Ascarate ParkThomason Loop, Tomason Loop,TemperaturePAMS, Cutdoor)SuburbanSuburbanExposureUrban Scale31.74678-106.402Ascarate ParkThomason Loop, Tomason Loop,SPMSensorContinuousSuburbanExposureUrban Scale31.74678-106.402Ascarate ParkThomason Loop, Tomason Loop,PAMS, CupCupUpwind-106.402-106.402-106.402El Paso481410055 SEEl PasoWindSLAMSAnemoreterContinuousSuburbanBackgroundNeighborhood31.74678-106.402El Paso481410054 SEEl PasoWindSLAMSAnemoreterContinuousSuburbanBackgroundNeighborhood31.74678-106.402El PasoMarcial Street, ElCultightNCORE, Marcial Street, ElCorrelation, CorrelationUrban andErniston-106.452El Paso48	El Paso	481410055	SE	El Paso	Humidity	SLAMS	Sensor	Continuous	Suburban		Neighborhood	31.74678	-106.40281
Ascarate Park El PasoThomson Loop, RadiationSolar SLAMSPAMS, PhotovoltaicContinuous ContinuousSuburban SuburbanUpwind Max Corone Max CoroneNeighborhood31.74678-106.402El Paso481410055SEEl Paso(Outdor)SLAMSAspiratedUpwindNeighborhood31.74678-106.402Ascarate Park Ascarate Park Ascarate Park PasoFib Paso(Outdor)SLAMSThermisterContinuousSuburbanNeighborhood31.74678-106.402Ascarate Park Ascarate Park PasoFib PasoVisibilitySPMSensorContinuousSuburbanNeighborhood31.74678-106.402Ascarate Park Ascarate Park PasoFib PasoVisibilitySPMSensorContinuousSuburbanNeighborhood31.74678-106.402Ascarate Park Ascarate Park PasoFib PasoVisibilitySPMSensorContinuousSuburbanSuburbanSuburbanSuburbanSuburbanSuburbanSuburbanSuburbanNeighborhood31.74678-106.402Paso481410044ChanizalPasoSensitivitySLAMSCorrelationContinuousSuburbanSuburbanNeighborhood31.74678-106.402Paso481410044ChanizalPasoSensitivitySLAMSCorrelationContinuousSuburbanSuburbanNeighborhood31.74678-106.402Paso481410044ChanizalPasoSensitivityNCORE, <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></br<>													
El Paso       481410055 SE       El Paso       Radiation       SLAMS       Photovoltaic       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         Ascarate Paso       650. R. E       Thomason Loop,       Temperature       PAMS,       Aspirated       Upwind       Neighborhood       31.74678       -106.402         El Paso       481410055 SE       El Paso       (Outdoor)       SLAMS       Thermister       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         Ascarate Park       Flore Paso       481410055 SE       El Paso       Visibility       SPM       Sensor       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         Ascarate Park       Flore Paso       Visibility       SPM       Sensor       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         He Paso       481410055 SE       El Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         He Paso       Harcial Street, El       CO (High       NCORE,       Gas Filter       Upwind       Urban			Accorate Dark		Solar	DAMC				,			
650 R E     Ascarate Park     Thomason Loop,     Temperature     PAMS,     Aspirated     Max Gzone     Concentration;       El Paso     481410055 SE     El Paso     (Outdoor)     SLAMS     Thermister     Continuous     Suburban     Background     Neighborhood     31.74678     -106.40;       Ascarate Park     Thomason Loop,     El Paso     Visibility     SPM     Sensor     Continuous     Suburban     Exposure     Urban Scale     31.74678     -106.40;       Max 0220e     Ascarate Park     Thomason Loop,     Pilphest     Concentration;     Population       El Paso     481410055 SE     El Paso     Visibility     SPM     Continuous     Suburban     Max 022ne       B00 S San     El Paso     Wind     SLAMS     Anemometer     Continuous     Suburban     Meighborhood     31.74678     -106.40;       B1 Paso     Visibility     SLAMS     Anemometer     Continuous     Suburban     Max 02ne       El Paso     Marcial Street, El     NCORE,     Gas Filter     Urban and     Highest       El Paso     Marcial Street, El     PAMS,     Continuous     Center City     Impact     Neighborhood     31.76569     -106.451       Highest     Concentration;     Marcial Street, El     PAMS,	Fl Paso	481410055		1 /			Photovoltaic	Continuous	Suburban		Neighborhood	31 74678	-106 40281
Ascarate Park El PasoThomason Loop, (Outdoor)Temperature SLAMSPAMS, ThermisterAspirated ThemsisterUpwind BackgroundNeighborhood31.74678-106.40; HighestEl Paso481410055 SEEl PasoVisibilitySPMSensorContinuousSuburbanBackgroundNeighborhood31.74678-106.40; HighestEl Paso481410055 SEEl PasoVisibilitySPMSensorContinuousSuburbanExposureUrban Scale31.74678-106.40; Max Ozone Concentration;El PasoAscarate Park Bloo S SanThomason Loop, El PasoPAMS, StaMSCupContinuousSuburbanBackgroundNeighborhood31.74678-106.40; Max Ozone Concentration;El PasoHarcial Street, El Bloo S SanNorole SinCupCupUrban and HighestHighest-106.40; Max PrecursorEl PasoMarcial Street, El Marcial Street, El El PasoNo/NO2/NOXSLAMSSener Paso Concentration;Neighborhood31.76569-106.45; HighestEl Paso481410044 Chamizal PasoPasoDew PointSPMDerived at siteContinuousCenter City Urban and EnsionsNeighborhood31.76569-106.45; HighestEl Paso481410044 Chamizal PasoPasoDew PointSPMDerived at site Concentration;ContinuousCenter City Urban and Marcial Street, El PasoNo/NO2/NOXSLAMSContinuousCenter City Urban andHighest Concentrat	LITUSO	401410033	JL	Elliago	Radiación	JEANS	Thorovoltaic	continuous	Suburban		Neighborhood	51.74070	100.40201
El Paso 481410055 SE El Paso (Outdoor) SLAMS Thermister Continuous Suburban Background Neighborhood 31.74678 -106.403 Highest Concentration; Population El Paso 481410055 SE El Paso Visibility SPM Sensor Continuous Suburban Background Neighborhood 31.74678 -106.403 Marcial Street, El Marcial Street, El Paso Sensitivity SLAMS Anemometer Continuous Suburban Background Neighborhood 31.74678 -106.403 Marcial Street, El Paso Sensitivity SLAMS Correlation Continuous Suburban Background Neighborhood 31.74678 -106.403 Highest Concentration; Population Exposure Urban Scale 31.74678 -106.403 Marcial Street, El Col High NCORE, El Paso 481410044 Chamizal Paso Dew Point SPM Derived at site Continuous Center City Concentration El Paso 481410044 Chamizal Paso Dew Point SPM Derived at site Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Col High NCORE, El Paso 481410044 Chamizal Paso Dew Point SPM Derived at site Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso No/NO2/NOX SLAMS Scence Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso No/NO2/NOX SLAMS Scence Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso No/NO2/NOX SLAMS Scence Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso No/NO2/NOX SLAMS Scence Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso No/NO2/NOX SLAMS EU/S01 Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Marcial Street, El Paso Sensitivity SLAMS EU/S01 Continuous Center City Concentration Mar Precursor El Paso 481410044 Chamizal Paso Son Sons No/NO2/NOX SLAMS EU/S01 Continuous Center City Concentration Mar Precursor El Paso Marcial Street, El PASMS, Sensitivity SLAMS EU/S01 Continuous Center City Concentration Mar Precursor El Paso 481				650 R E						Concentration;			
650 R E       Ascarate Park       Finomason Loop,       Visibility       Sensor       Continuous       Suburban       Concentration;       Population         El Paso       481410055 SE       El Paso       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.402         Ascarate Park       Thomason Loop,       PAMS,       Cup       Upwind       Exposure       Urban Scale       31.74678       -106.402         Ascarate Park       Thomason Loop,       PAMS,       Cup       Upwind       Exposure       Upwind       Exposure       Upwind       Exposure       0.00 S San       31.74678       -106.402         800 S San       Marcial Street, El       CO (High       NCORE,       Gas Filter       Urban and       Highest       Concentration;       Neighborhood       31.76569       -106.451         B1 Paso       Marcial Street, El       El Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         B1 Paso       Marcial Street, El       PAMS,       Chemilumine-       Emissions       Emissions       Emissions       Emissions       Emissions       Emissions			Ascarate Park	Thomason Loop,	Temperature	PAMS,	Aspirated			Upwind			
Ascarate Park       Tomaso Loop, 481410055 SE       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.407         EI       Paso       481410055 SE       EI       Paso       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.407         Ascarate Park       Thomason Loop, Thomason Loop,       PAMS,       Cup       Urban       Max Ozone       Urban Scale       31.74678       -106.407         EI       Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Rekground       Neighborhood       31.74678       -106.407         Bio S San       Marcial Street, EI       CO (High       NCORE, Sub S San       Continuous       Suburban       Highest       -       -       -106.407         EI Paso       Marcial Street, EI       CO (High       NCORE, Sub S San       Ensistions       Neighborhood       31.76569       -106.451         EI Paso       Marcial Street, EI       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         Bi Paso       Marcial Street, EI	El Paso	481410055	SE	El Paso	(Outdoor)	SLAMS	Thermister	Continuous	Suburban		Neighborhood	31.74678	-106.40281
Ascarate Park       Thomason Loop,       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.402         BI Paso       481410055 SE       El Paso       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.402         Ascarate Park       Thomason Loop,       PAMS,       Cup       Urban       Concentration;       Urban Scale       31.74678       -106.402         El Paso       481410055 SE       El Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         El Paso       Marcial Street, El       CO (High       NCORE,       Gas Filter       Urban and       Highest       Concentration;       Neighborhood       31.76569       -106.452         El Paso       Marcial Street, El       Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.452         El Paso       Marcial Street, El       PAMS,       Chemilumine-       Urban and       Ensissions       Earlisions       Earlisions       Earlisions       <										-			
El Paso       481410055 SE       El Paso       Visibility       SPM       Sensor       Continuous       Suburban       Exposure       Urban Scale       31.74678       -106.403         Accarate Park       Thomason Loop,       PAMS,       Cup       Upwind       Background       Neighborhood       31.74678       -106.403         El Paso       481410055 SE       El Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Reighborhood       31.74678       -106.403         El Paso       481410054 Chamizal       Paso       Sensitivity)       SLAMS       Anemometer       Continuous       Suburban       Highest       Concentration       Neighborhood       31.74678       -106.403         El Paso       Marcial Street, El       CO       Sensitivity)       SLAMS       Correlation       Contentration       Neighborhood       31.76569       -106.453         Bi Paso       Marcial Street, El       Paso       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.453         Bi Paso       Marcial Street, El       PAMS,       Chemilumine-       Urban and       Highest       Concentration, Max Precursor         El Paso       481410044 Chamizal       Pa			Ascarato Park				Visibility			,			
650 R E       Potentiometer       Concentration; Upwind         El Paso       481410055 SE       El Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Background       Neighborhood       31.74678       -106.403         B00 S San       El Paso       Marcial Street, El       CO (High       NCORE,       Gas Filter       Urban and       Highest       Concentration in Neighborhood       31.76569       -106.453         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       Correlation       Continuous       Concentration in Neighborhood       31.76569       -106.453         El Paso       481410044 Chamizal       Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.453         El Paso       Marcial Street, El       PAMS,       Chemilumine-       Urban and       Emissions       Concentration;         800 S San       El Paso       Marcial Street, El       PAMS,       Chemilumine-       Continuous       Center City       Impact       Neighborhood       31.76569       -106.453         El Paso       481410044 Chamizal       Paso       NO/NO2/NOX       SLAMS       Chemilumine-       Continuous	El Paso	481410055		1 /	Visibility	SPM		Continuous	Suburban	•	Urban Scale	31,74678	-106.40281
Ascarate Park El PasoThomason Loop, El PasoPAMS, SLAMSCup AnemometerUpwind BackgroundNeighborhood31.74678-106.400800 S SanEl PasoMarcial Street, ElCO (High NCORE, Sensitivity)NCORE, SCOREGas Filter CorrelationUrban and ContinuousHighest	211000	101110035	02	211.000	visibility	0111	School	continuous	Suburban		orban ocale	5117 1070	100110201
El Paso       481410055 SE       El Paso       Wind       SLAMS       Anemometer       Continuous       Suburban       Background       Neighborhood       31.74678       -106.402         800 S San       El Paso       Marcial Street, El CO (High       NCORE,       Gas Filter       Urban and       Highest         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       Correlation       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.453         Background       Marcial Street, El       El Paso       Marcial Street, El       Urban and       Emissions       Concentration;       Max Precursor       Max Precursor       Highest       -106.453       Highest       -106.453       -1				650 R E			Potentiometer			Concentration;			
B00 S San       B00 S San         El Paso       Marcial Street, El Co (High Paso       NCORE, SLAMS       Gas Filter Correlation       Urban and Center City       Highest Concentration, Max Precursor         El Paso       B00 S San       B00 S San       Urban and El Paso       Highest Concentration, Max Precursor       Neighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         B00 S San       B00 S San       B00 S San       Chemilumine- S00 S San       Chemilumine- Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso       NO/NO2/NOX       Scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       PAMS, Stan       Chemilumine- Chemilumine- Scence API200       Urban and Highest       Highest         El Paso       481410044 Chamizal       Paso       Sensitivity       SLAMS       EU/501       Continuous       Center City       Max Precursor Max Precursor       Max Precursor Emissions         El Paso <t< td=""><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>,</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				· · · · · · · · · · · · · · · · · · ·		,	•						
El PasoMarcial Street, El CO (High PasoNCORE, SLAMSGas Filter CorrelationUrban and Center CityHighest Concentration; Max PrecursorEl PasoMarcial Street, El Marcial Street, ElDew PointSPMDerived at siteContinuousCenter CityConcentration; Max PrecursorEl Paso481410044 ChamizalPasoDew PointSPMDerived at siteContinuousCenter CityImpactNeighborhood31.76569-106.451El PasoMarcial Street, El Marcial Street, ElDew PointSPMDerived at siteContinuousCenter CityImpactNeighborhood31.76569-106.451El PasoMarcial Street, El PasoPAMS, Marcial Street, ElPAMS, Chemilumine- ContinuousChemilumine- ContinuousUrban and Emissions <td< td=""><td>El Paso</td><td>481410055</td><td>SE</td><td></td><td>Wind</td><td>SLAMS</td><td>Anemometer</td><td>Continuous</td><td>Suburban</td><td>Background</td><td>Neighborhood</td><td>31.74678</td><td>-106.40281</td></td<>	El Paso	481410055	SE		Wind	SLAMS	Anemometer	Continuous	Suburban	Background	Neighborhood	31.74678	-106.40281
El Paso 481410044 Chamizal Paso Sensitivity) SLAMS Correlation Continuous Center City Concentration Neighborhood 31.76569 -106.453 Highest Concentration; Max Precursor El Paso Marcial Street, El Paso 481410044 Chamizal Paso Dew Point SPM Derived at site Continuous Center City Impact Neighborhood 31.76569 -106.453 Highest Concentration; Max Precursor El Paso 800 S San El Paso 481410044 Chamizal Paso NO/NO2/NOX SLAMS Scence Continuous El Paso 481410044 Chamizal Paso NO/NO2/NOX SLAMS Scence Continuous El Paso 481410044 Chamizal Paso NO/NO2/NOX SLAMS Scence Continuous El Paso 481410044 Chamizal Paso Sensitivity) SLAMS EU/501 Continuous El Paso 481410044 Chamizal Paso Sensitivity SLAMS EU/501 Continuous Center City Impact Neighborhood 31.76569 -106.453 Max Precursor Chemilumine- Scence API200 Urban and Highest El Paso 481410044 Chamizal Paso Sensitivity SLAMS EU/501 Continuous Center City Impact Neighborhood 31.76569 -106.453 Max Precursor Chemilumine- Scence API200 Urban and Highest El Paso 481410044 Chamizal Paso Sensitivity SLAMS EU/501 Continuous Center City Concentration Marcial Street, El PAMS, UV Photometric Continuous Center City Empissions El Paso 481410044 Chamizal Paso O3 SLAMS UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.453 Marcial Street, El PAMS, UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.453 Max Precursor Empissions Impact; El Paso O3 SLAMS UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.453 Highest Highest Highes			FL Paso		CO (High	NCORE	Gas Filter		Urban and	Highest			
Bit Paso       Bit Paso       Marcial Street, El       Urban and       Emissions         El Paso       Marcial Street, El       Urban and       Emissions       Neighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         Bit Paso       Marcial Street, El       PAMS,       Chemilumine-       Urban and       Emissions       Emissions       Emissions       Emissions       Emissions       1.76569       -106.451         El Paso       481410044 Chamizal       Paso       NO/NO2/NOX       SLAMS       scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       NO/NO2/NOX       SLAMS       EU/501       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         B00 S San       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       NOCRE,       Sensitivity)       SLAMS       EU/5	El Paso	481410044		,	( )	,		Continuous		5	Neighborhood	31.76569	-106.45523
800 S San El PasoMarcial Street, El Marcial Street, ElJew PointSPMDerived at siteContinuousMax Precursor EnissionsMax PrecursorEl Paso481410044ChamizalPasoDew PointSPMDerived at siteContinuousCenter CityImpactNeighborhood31.76569-106.451Biolo S San El PasoMarcial Street, El 800 S San El PasoPAMS,Chemilumine- Chemilumine- Chemilumine- Chemilumine- Chemilumine- Chemilumine- Chemilumine- Chemilumine- Chemilumine-Urban and EmissionsNeighborhood31.76569-106.451El PasoMarcial Street, El 800 S San Biolo S SanNO/NO2/NOXSLAMSscence ContinuousContinuous Center CityUrban and EmissionsEmissions-106.451El PasoMarcial Street, El 800 S San El PasoNOY (High SLAMSNCORE, PasoScence API200Urban and ContinuousHighest-106.451El PasoMarcial Street, El PasoNCORE, PasoScence API200Urban and ContinuousHighest-106.451El PasoMarcial Street, El PasoPAMS,UV PhotometricContinuousCenter City ContinuousNeighborhood31.76569-106.451El PasoMarcial Street, El PasoPAMS,UV PhotometricContinuousCenter City ContinuousNeighborhood31.76569-106.451El PasoMarcial Street, El PasoPAMS,UV PhotometricContinuousCenter City ExposureNeighborhood31.76569													
El PasoMarcial Street, El PasoDew PointSPMDerived at siteContinuousEmissionsEl Paso481410044ChamizalPasoDew PointSPMDerived at siteContinuousCenter CityImpactNeighborhood31.76569-106.451800 S SanMarcial Street, ElPAMS,Chemilumine- ContinuousUrban andEmissionsEmissionsMax PrecursorMax Precursor800 S SanNO/NO2/NOXSLAMSscenceContinuousCenter CityImpactNeighborhood31.76569-106.451800 S SanNO/NO2/NOXSLAMSscenceContinuousCenter CityImpactNeighborhood31.76569-106.451800 S SanNO/NO2/NOXSLAMSScence API200Urban andHighestNeighborhood31.76569-106.451El PasoMarcial Street, ElNOy (HighNCORE,scence API200Urban andHighestNeighborhood31.76569-106.451B00 S SanSanNCORE,L/S01ContinuousCenter CityConcentration (Max Precursor EmissionsNeighborhood31.76569-106.451El PasoMarcial Street, ElPAMS,UV Photometric ContinuousCenter CityEmissionsImpact;Impact;Impact;El Paso481410044ChamizalPasoO3SLAMSUV Photometric ContinuousCenter CityExpositeNeighborhood31.76569-106.451El Paso481410044ChamizalPasoO3SLAMS </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td>										,			
El Paso       481410044 Chamizal       Paso       Dew Point       SPM       Derived at site       Continuous       Center City       Impact       Neighborhood       31.76569       -106.453         Bill Paso       B00 S San       Chemilumine-       Urban and       Emissions       El Paso       Marcial Street, El NOy (High NCORE, Scence API200       Urban and       Highest       B00 S San       B00 S San       Chemilumine-       El Paso       Highest       B00 S San       B00 S San       Chemilumine-       El Paso       Bighborhood       31.76569       -106.451         El Paso       Marcial Street, El NOy (High       NCORE,       Scence API200       Urban and       Highest       Bighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/S01       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       PAMS,       UVPAn       Urban and       Population       Bighborhood       31.76569       -106.451									II. have a set				
El Paso       Marcial Street, El       PAMS,       Chemilumine-       Urban and       Emissions         El Paso       481410044 Chamizal       Paso       NO/NO2/NOx       SLAMS       scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         800 S San       Chemilumine-       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       NOy (High       NCORE,       scence API200       Urban and       Highest         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         800 S San       NCORE,       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         800 S San       NCORE,       El Paso       Marcial Street, El       PAMS,       Urban and       Highest         El Paso       Marcial Street, El       PAMS,       UV Photometric Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso		401410044		,	Daw Daint	CDM	Derived at site	Continuous			Najabbarbaad	21 76560	106 45522
El Paso       Marcial Street, El       PAMS,       Chemilumine-scence       Continuous       Center City       Maxisions         El Paso       481410044 Chamizal       Paso       NO/NOZ/NOX       SLAMS       Scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.455         Bl Paso       Marcial Street, El       NOy (High       NCORE,       scence API200       Urban and       Highest       Urban and       Highest       Urban and       Highest       106.455         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Max Precursor       Max Precursor         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.455         Max Precursor       El Paso       Marcial Street, El       PAMS,       Urban and       Highest       Highest <td< td=""><td>EI Paso</td><td>481410044</td><td>Chamizai</td><td>Pd50</td><td>Dew Point</td><td>SPM</td><td>Derived at site</td><td>Continuous</td><td>Center City</td><td></td><td>Neighborhood</td><td>31.70309</td><td>-100.45525</td></td<>	EI Paso	481410044	Chamizai	Pd50	Dew Point	SPM	Derived at site	Continuous	Center City		Neighborhood	31.70309	-100.45525
El Paso       Marcial Street, El Paso       Marcial Street, El Paso       PAMS, NO/NO2/NOx       Chemilumine- scence       Urban and Continuous       Emissions         El Paso       Marcial Street, El Paso       NO/NO2/NOx       SLAMS       Scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.455         El Paso       Marcial Street, El Paso       NOY (High Paso       NCORE, Sensitivity       Scence API200       Urban and Center City       Highest         El Paso       481410044       Chamizal       Paso       Sensitivity       SLAMS       EU/501       Continuous       Center City       Concentration Max Precursor Emissions       Neighborhood       31.76569       -106.455         800 S San       NCORE, Bil Paso       NCORE, Marcial Street, El       PAMS,       VP hotometric       Continuous       Center City       Concentration Mapact;       Neighborhood       31.76569       -106.455         El Paso       481410044       Chamizal       Paso       O3       SLAMS       UV Photometric       Continuous       Center City       Exposure       Neighborhood       31.76569       -106.455         El Paso       481410044       Chamizal       Paso       O3       SLAMS       UV Photometric       Continuous       Center City										-			
El Paso       481410044 Chamizal       Paso       NO/NO2/NOx       SLAMS       scence       Continuous       Center City       Impact       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       NOy (High       NCORE,       scence API200       Urban and       Highest         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         Baso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Max Precursor       Max Precursor         El Paso       Marcial Street, El       PAMS,       VV Photometric       Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451         El Paso       Marcial Street, El       PAMS,       UV Photometric       Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451         El Paso       481410044 Chamizal       Paso       O3       SLAMS       UV Photometric       Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451         Highest <t< td=""><td></td><td></td><td></td><td>800 S San</td><td></td><td></td><td></td><td></td><td></td><td>Max Precursor</td><td></td><td></td><td></td></t<>				800 S San						Max Precursor			
800 S San       Chemilumine-         El Paso       Marcial Street, El NOy (High NCORE, scence API200       Urban and Highest         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City Concentration Neighborhood       31.76569 -106.455         800 S San       NCORE,       EU/501       Continuous       Center City Concentration Neighborhood       31.76569 -106.455         800 S San       NCORE,       Impact;       El Paso       Impact;         El Paso       Marcial Street, El       PAMS,       Urban and Population         El Paso       481410044 Chamizal       Paso       O3       SLAMS       UV Photometric Continuous       Center City Exposure       Neighborhood       31.76569 -106.455         Highest       Highest       Highest       Highest       Highest       Highest				,		,	Chemilumine-						
El Paso       Marcial Street, El NOy (High Paso       NCORE, Sensitivity)       scence API200 EU/501       Urban and Continuous       Highest         El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration Max Precursor Emissions       Neighborhood       31.76569       -106.451         800 S San       NCORE, El Paso       NCORE, Marcial Street, El       PAMS,       Urban and Population       Population         El Paso       481410044 Chamizal       Paso       O3       SLAMS       UV Photometric Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451	El Paso	481410044	Chamizal		NO/NO2/NOx	SLAMS		Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
El Paso       481410044 Chamizal       Paso       Sensitivity)       SLAMS       EU/501       Continuous       Center City       Concentration       Neighborhood       31.76569       -106.451         Boo       S San       NCORE,       Emissions       Emissions       Impact;         El Paso       Marcial Street, El       PAMS,       Urban and       Population         El Paso       481410044 Chamizal       Paso       O3       SLAMS       UV Photometric Continuous       Center City       Exposure       Neighborhood       31.76569       -106.451			FL Paso		NOv (High	NCORE			Urban and	Highest			
Max Precursor Emissions 800 S San NCORE, Impact; El Paso Marcial Street, El PAMS, Urban and Population El Paso 03 SLAMS UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.455 Highest	El Paso	481410044		,		,		Continuous		5	Neighborhood	31,76569	-106.45523
800 S San       NCORE,       Impact;         El Paso       Marcial Street, El       PAMS,       Urban and       Population         El Paso       481410044 Chamizal       Paso       O3       SLAMS       UV Photometric Continuous       Center City       Exposure       Neighborhood       31.76569       -106.455         Highest		101 1100 11			20.0.0.0.000		_0,001	50	Series only			011/0305	100110020
El Paso Marcial Street, El PAMS, Urban and Population El Paso 481410044 Chamizal Paso O3 SLAMS UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.455 Highest													
El Paso 481410044 Chamizal Paso O3 SLAMS UV Photometric Continuous Center City Exposure Neighborhood 31.76569 -106.45 Highest										• •			
Highest		401410044		,	02			Continue			Noighborter		106 45522
	EI Paso	481410044	Chamizai	Pas0	03	SLAMS	UV Photometric	Continuous	Center City		weignbornood	31.76569	-106.45523
				800 S San			Beta			Concentration;			
El Paso Marcial Street, El NCORE, Attenuation, Urban and Population			El Paso			NCORE,			Urban and	,			
El Paso 481410044 Chamizal Paso PM10-2.5 SLAMS 185 calculated Continuous Center City Exposure Neighborhood 31.76569 -106.45	El Paso	481410044	Chamizal	Paso	PM10-2.5	SLAMS	185 calculated	Continuous	Center City	Exposure	Neighborhood	31.76569	-106.45523

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
									Highest			
			800 S San		NOODE	Beta			Concentration;			
	401410044	El Paso	Marcial Street, El		NCORE,	Attenuation,	C. I.	Urban and	Population	No. to be to be a set		106 45522
El Paso	481410044	Chamizai	Paso	PM2.5	SLAMS	170	Continuous	Center City	Exposure Highest	Neighborhood	31.76569	-106.45523
			800 S San						Concentration;			
		El Paso	Marcial Street, El		NCORE,	Sequential FRM	24 Hours:	Urban and	Population			
El Paso	481410044		Paso	PM2.5 (FRM)	SLAMS	Gravimetric	1/3 Days	Center City	Exposure	Neighborhood	31.76569	-106.45523
				- ( )			, , -	····,	P			
			800 S San		Csn Stn,	Carbons,						
		El Paso	Marcial Street, El		NCORE,	Elements, Ions,	,	Urban and	Highest			
El Paso	481410044	Chamizal	Paso	(Speciation)	SLAMS	SASS/URG	1/3 Days	Center City	Concentration	Neighborhood	31.76569	-106.45523
			800 S San	Deletive	DAMO	1 I			Max Precursor			
	401410044	El Paso	Marcial Street, El		PAMS,	Humidity	Continuous	Urban and	Emissions	Naighborhood		106 45522
El Paso	481410044	Chamizai	Paso 800 S San	Humidity	SLAMS	Sensor	Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
		El Paso	Marcial Street, El	SO2 (High	NCORE,	Pulsed		Urban and	Highest			
El Paso	481410044		Paso	Sensitivity)	SLAMS	Fluorescence	Continuous	Center City	Concentration	Neighborhood	31.76569	-106.45523
			800 S San						Max Precursor			
		El Paso	Marcial Street, El	Solar	PAMS,			Urban and	Emissions			
El Paso	481410044	Chamizal	Paso	Radiation	SLAMS	Photovoltaic	Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
									Highest			
			000 C Car						Concentration;			
		El Paso	800 S San Marcial Street, El	Speciated	PAMS,			Urban and	Max Precursor Emissions			
El Paso	481410044		Paso	VOC (AutoGC)	,	GC	Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
LI Fasu	401410044	Channizar	800 S San	VOC (AutoGC)	JLAM5	60	Continuous	Center City	Max Precursor	Neighborhood	51.70509	-100.45525
		El Paso	Marcial Street, El	Temperature	PAMS,	Aspirated		Urban and	Emissions			
El Paso	481410044	Chamizal	Paso	(Outdoor)	SLAMS	Thermister	Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
									Highest			
									Concentration;			
			800 S San						Max Precursor			
		El Paso	Marcial Street, El		PAMS,		<b>A</b> 11	Urban and	Emissions			
El Paso	481410044	Chamizal	Paso 800 S San	(AutoGC)	SLAMS	GC Potentiometer	Continuous	Center City	Impact Max Precursor	Neighborhood	31.76569	-106.45523
		El Paso	Marcial Street, El		PAMS,	Cup		Urban and	Emissions			
El Paso	481410044		Paso	Wind	SLAMS	Anemometer	Continuous	Center City	Impact	Neighborhood	31.76569	-106.45523
211030	101110011	Channizar	1 4 5 6	Wind	36413	Allemoniccer	continuous	center eity	Impact	Neighborhood	51.70505	100.15525
			7501 Mimosa			HiVol	24 Hours;		Population			
El Paso	481410038	El Paso Mimosa	Avenue, El Paso	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Suburban	Exposure	Neighborhood	31.73586	-106.37791
			250 Rim Rd, El		0.014	Gas Filter	<b>.</b>	Urban and	Highest			
El Paso	481410037	' El Paso UTEP	Paso	CO	SPM	Correlation	Continuous	Center City	Concentration Max Ozone	Neighborhood	31.76829	-106.50124
									Max Ozone Concentration;			
			250 Rim Rd, El					Urban and	Population			
El Paso	481410037	' El Paso UTEP	Paso	Dew Point	SPM	Derived at site	Continuous		Exposure	Neighborhood	31.76829	-106.50124
	101110007	1.1 400 01E1		2011 10111	5111		Sontinuous	Series City	LAPOOUIC	lightonhood	51.70025	100100124

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			250 Rim Rd, El		PAMS,	Chemilumine-		Urban and	Max Ozone Concentration; Population			
El Paso	481410037	7 El Paso UTEP	Paso	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Exposure Max Ozone	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	03	PAMS, SLAMS	UV Photometric	Continuous	Urban and Center City	Concentration; Population Exposure	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	PM2.5 (FRM)	SLAMS	Sequential FRM Gravimetric	24 Hours; 1/6 Days	Urban and Center City	General, Background; Population Exposure	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	PM2.5 (TEOM) <sup>N</sup>	SPM	TEOM Gravimetric	Continuous	Urban and Center City	Highest Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	Precipitation	PAMS, SLAMS	Rain Gauge	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	Relative Humidity	PAMS, SLAMS	Humidity Sensor	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	Solar Radiation	PAMS, SLAMS	Photovoltaic	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	Temperature (Outdoor)	PAMS, SLAMS	Aspirated Thermister	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	UV Radiation	PAMS, SLAMS	Photovoltaic	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410037	7 El Paso UTEP	250 Rim Rd, El Paso	Wind	PAMS, SLAMS	Potentiometer Cup Anemometer	Continuous	Urban and Center City	Max Ozone Concentration	Neighborhood	31.76829	-106.50124
El Paso	481410029	) Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	03	SPM	UV Photometric	Continuous	Suburban	Population Exposure	Neighborhood	31.78577	-106.32358
El Paso	481410029	) Ivanhoe	10834 Ivanhoe, El Paso	PM10 (FRM)	SLAMS	HiVol Gravimetric	24 Hours; 1/6 Days	Suburban	Population Exposure	Neighborhood	31.78577	-106.32358
El Paso	481410029	) Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	Relative Humidity	Border Grant, SLAMS	Humidity Sensor	Continuous	Suburban	General, Background	Neighborhood	31.78577	-106.32358
El Paso	481410029	) Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Suburban	General, Background	Neighborhood	31.78577	-106.32358
El Paso	481410029	) Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	Wind	Border Grant, SLAMS	Potentiometer Cup Anemometer	Continuous	Suburban	General, Background	Neighborhood	31.78577	-106.32358

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
El Paso	481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	СО	SLAMS	Gas Filter Correlation	Continuous	Suburban	Population Exposure	Neighborhood	31.86247	-106.54730
El Paso	481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	03	SLAMS	UV Photometric	Continuous seasonal April- October	Suburban	Population Exposure	Neighborhood	31.86247	-106.54730
El Paso	481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	PM10 (FRM)	SLAMS	HiVol Gravimetric	24 Hours; 1/6 Days	Suburban	Population Exposure	Neighborhood	31.86247	-106.54730
El Paso	481411021	. Ojo De Agua	6767 Ojo De Agua, El Paso	PM10 (FRM)	QA Collocated, SLAMS	HiVol Gravimetric Potentiometer	24 Hours; 1/12 Days	Suburban	Population Exposure	Neighborhood	31.86247	-106.54730
El Paso	481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	Wind	SPM Border	Cup Anemometer	Continuous	Suburban	Population Exposure	Neighborhood	31.86247	-106.54730
El Paso	481410058	3 Skyline Park	5050A Yvette Drive, El Paso	03	Grant, SLAMS Border	UV Photometric	Continuous	Suburban	Population Exposure	Neighborhood	31.89391	-106.42583
El Paso	481410058	3 Skyline Park	5050A Yvette Drive, El Paso	Temperature (Outdoor)	Grant, SLAMS Border	Aspirated Thermister Potentiometer	Continuous	Suburban	Population Exposure	Neighborhood	31.89391	-106.42583
El Paso	481410058	3 Skyline Park	5050A Yvette Drive, El Paso 320 Old Hueco	Wind	Grant, SLAMS	Cup Anemometer	Continuous	Suburban	Population Exposure	Neighborhood	31.89391	-106.42583
El Paso	481410057	7 Socorro Hueco	Tanks Road, El Paso	03	SLAMS	UV Photometric	Continuous	Suburban	Population Exposure General,	Neighborhood	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	320 Old Hueco Tanks Road, El Paso	PM10 (FRM)	Border Grant, SLAMS	HiVol Gravimetric	24 Hours; 1/6 Days	Suburban	Background; Population Exposure	Neighborhood	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	320 Old Hueco Tanks Road, El Paso	PM10 (FRM)	Border Grant, QA Collocated, SLAMS	HiVol Gravimetric	24 Hours; 1/12 Days	Suburban	Population Exposure	Neighborhood	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	320 Old Hueco Tanks Road, El Paso	PM2.5 (TEOM) <sup>N</sup>	SPM	TEOM Gravimetric	Continuous	Suburban	Population Exposure	Neighborhood	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	320 Old Hueco Tanks Road, El Paso 320 Old Hueco	Radar Profiler	SPM	Radar Profiler	Continuous	Suburban	Regional Transport	Regional Scale	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	Tanks Road, El Paso 320 Old Hueco	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Suburban	Population Exposure	Neighborhood	31.66750	-106.28800
El Paso	481410057	7 Socorro Hueco	Tanks Road, El	Wind	SPM	Cup Anemometer	Continuous	Suburban	Population Exposure	Neighborhood	31.66750	-106.28800

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
El Paso	481410693	3 Van Buren	2700 Harrison Avenue, El Paso	PM10 (FRM)	SPM	HiVol Gravimetric	24 Hours; 1/6 Days	Urban and Center City	Population Exposure	Neighborhood	31.81337	-106.46452
El Paso	481410693	3 Van Buren	2700 Harrison Avenue, El Paso	Relative Humidity	SPM	Humidity Sensor	Continuous	Urban and Center City	Population Exposure	Neighborhood	31.81337	-106.46452
El Paso	481410693	3 Van Buren	2700 Harrison Avenue, El Paso	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Urban and Center City	Population Exposure	Neighborhood	31.81337	-106.46452
El Paso	481410693	3 Van Buren	2700 Harrison Avenue, El Paso	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Urban and Center City	Population Exposure	Neighborhood	31.81337	-106.46452
Granbury*	482210003	L Granbury	200 N Gordon Street, Granbury	03	SLAMS	UV Photometric	: Continuous	Suburban	Population Exposure	Neighborhood	32.44230	-97.80353
Granbury*	482210003	L Granbury	200 N Gordon Street, Granbury	Solar Radiation	SPM	Photovoltaic	Continuous	Suburban	General, Background	Middle Scale	32.44230	-97.80353
Granbury*	482210003	l Granbury	200 N Gordon Street, Granbury	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Suburban	General, Background	Middle Scale	32.44230	-97.80353
Granbury*	482210003	L Granbury	200 N Gordon Street, Granbury	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Suburban	General, Background	Middle Scale	32.44230	-97.80353
Houston-The Woodlands- Sugar Land	482010058	3 Bavtown	7210 1/2 Bayway Drive, Baytown	PM2.5 (Beta)	SLAMS	Beta Attenuation	Continuous	Suburban	Population Exposure	Neighborhood	29.77070	-95.03123
Houston-The Woodlands- Sugar Land	482010058	Baytown	7210 1/2 Bayway Drive, Baytown	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Suburban	Highest Concentration	Neighborhood	29.77070	-95.03123
Houston-The Woodlands- Sugar Land	482010058	3 Baytown	7210 1/2 Bayway Drive, Baytown		SPM	Potentiometer Cup Anemometer	Continuous	Suburban	Highest Concentration	Neighborhood	29.77070	-95.03123
Houston-The Woodlands- Sugar Land	482011017	7 Baytown Garth	8622 Garth Road Unit A, Baytown	03	SLAMS	UV Photometric	: Continuous	Suburban	Max Ozone Concentration	Neighborhood	29.82335	-94.98387
Houston-The Woodlands- Sugar Land	482011017	7 Baytown Garth	8622 Garth Road Unit A, Baytown	Solar Radiation	SPM	Photovoltaic	Continuous	Suburban	Population Exposure	Neighborhood	29.82335	-94.98387
Houston-The Woodlands- Sugar Land			8622 Garth Road Unit A, Baytown		SPM	Aspirated Thermister	Continuous	Suburban	Population Exposure	Neighborhood	29.82335	-94.98387
Houston-The Woodlands- Sugar Land	482011017	7 Baytown Garth	8622 Garth Road Unit A, Baytown	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Suburban	Population Exposure	Neighborhood	29.82335	-94.98387
Houston-The Woodlands- Sugar Land	482010026	5 Channelview	1405 Sheldon Road, Channelview	Dew Point	SPM	Derived at site	Continuous	Suburban	Highest Concentration	Neighborhood	29.80271	-95.12549

Texas MSA CBSAAge Site Name Location CBSASampler TypeNetwork NetworkMethodsOperating ScheduleLocation SettingMonitoring ObjectiveSpatial Scale LatitudeLatitudeLongituHouston-The Woodlands-1405 Sheldon Road,PAMS, ChannelviewChannelviewNO/NO2/NOXSLAMSChemilimine- scencePopulation SuburbanMiddle Scale, Nax PrecursorNeighborhood29.80271-95.12Houston-The Woodlands-1405 Sheldon Road,PAMS, ChannelviewOperating ChannelviewPAMS, SLAMSUV Photometric ContinuousSuburban Max PrecursorNeighborhood29.80271-95.12Woodlands- Sugar Land482010026 Channelview ChannelviewChannelviewPAMS, ChannelviewHumiditySLAMSUV Photometric ContinuousSuburban Max PrecursorNeighborhood29.80271-95.12Woodlands- Sugar Land482010026 Channelview Road, Sugar LandSolar Add, SolarPAMS, SolarHumiditySLAMSFinance ContinuousNeighborhood29.80271-95.12Woodlands- Sugar Land482010026 Channelview Houston-TheRoad, SpeciatedSolar PAMS, SpeciatedPAMS, PhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.12Woodlands- Sugar Land482010026 Channelview Houston-TheChannelviewChannelviewChannelviewChannelviewPAMS, SpeciatedContinuousSuburbanImpactNeighborhood
Woodlands- Suger LandRoad, 482010026 ChannelviewRoad, ChannelviewPAMS, NO/NO2/NOXChemilumine- scencePopulationMiddle Scale, Exposure Max Precursor EmissionsHouston-The Woodlands- Sugar Land1405 Sheldon Road, Relative Sugar Land Houston-The1405 Sheldon Road, Road, Relative HumiditySuburban PAMS, VV Photometric Continuous Suburban Suburban Suburban Exposure Nax Precursor Max Precursor EmissionsNeighborhood 29.80271 -95.1 Modiands- 1405 Sheldon Modiands- Road, Road, Road, Solar PAMS, Solar PAMS, Solar PAMS, Photovoltaic Continuous Suburban Photovoltaic Continuous Suburban Photovoltaic Continuous Suburban Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Photovoltaic Continuous Suburban Max Precursor Max Precur
Sugar Land482010026 ChannelviewChannelviewNO/NO2/NOXSLAMSscenceContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,PAMS,UV PhotometricContinuousSuburbanExposureNeighborhood29.80271-95.1Woodlands-Road,PAMS,UV PhotometricContinuousSuburbanExposureNeighborhood29.80271-95.1Woodlands-Road,RelativePAMS,UV PhotometricSuburbanExposureNeighborhood29.80271-95.1Woodlands-Road,RelativePAMS,HumidityEmissionsEmissionsWoodlands-Road,SolarPAMS,SensorContinuousSuburbanImpactNeighborhood29.80271-95.1Woodlands-Road,SolarPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.1Woodlands-Road,SolarPAMS,PhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.1Woodlands-Road,SpeciatedPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SpeciatedPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedExposureNeighborhood
Houston-The1405 SheldonMax PrecursorWoodlands-Road,PAMS,UV Photometric ContinuousSuburbanSugar Land482010026 ChannelviewChannelview03SLAMSUV Photometric ContinuousSuburbanWoodlands-Road,RelativePAMS,HumidityEmissionsSugar Land482010026 ChannelviewChannelviewPAMS,HumidityEmissionsSugar Land482010026 ChannelviewChannelviewHumiditySLAMSSensorContinuousSuburbanWoodlands-Road,SolarPAMS,HumidityEmissionsEmissionsSugar Land482010026 ChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SpeciatedPAMS,PhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SpeciatedPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedEmissionsSuburbanSuburbanNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedEmissionsSuburbanSuburbanSuburbanSuburbanNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,Temperature<
Houston-The 1405 Sheldon PAMS, Sugar Land 482010026 Channelview Channelview PAMS, PamS, Sugar Land 482010026 Channelview Channelview PAMS, PAMS, Humidity Emission Suburban Max Precursor Pressure Neighborhood 29.80271 -95.11 Postaver Pame Pame PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver Pame PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver PAMS, Photovoltaic Continuous Suburban Impact Neighborhood 29.80271 -95.11 Postaver Pams Population Pame Pams Pams Pame Pams Population Pame Pams Population Pame Pams Population Pame Pams Population Pame Pams Pams Pame Pams Population Pame Pams Population Pame Pams Population Pame Pams Population Pame Pams Pame Pams Pame Pame Pame Pams Pame Pams Pame Pams Pame Pams Pame Pame Pams Pame Pame Pame Pame Pame Pame Pame Pame
Houston-The1405 SheldonImpact;Woodlands-Road,PAMS,UV Photometric ContinuousSuburbanPopulationPopulationMoston-The1405 SheldonHumiditySLAMSUV Photometric ContinuousSuburbanMax PrecursorNeighborhood29.80271-95.12Moodlands-Road,RelativePAMS,HumiditySensorContinuousSuburbanImpactNeighborhood29.80271-95.12Moodlands-Road,SolarPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.12Moodlands-Road,SolarPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.12Moodlands-Road,SolarPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.12Moodlands-Road,SolarPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.12Mouston-The1405 SheldonVOC (AutoGC)SLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.12Mouston-The1405 SheldonVOC (AutoGC)SLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.12Mouston-The1405 SheldonVOC (AutoGC)SLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.12Mouston-The1405 SheldonVOC (AutoGC)SLAMSAs
Woodlands- Sugar LandRoad, 482010026 ChannelviewRoad, ChannelviewPAMS, O3UV Photometric ContinuousSuburbanPopulationExposure ExposureNeighborhood29.80271-95.12Woodlands- Sugar LandRoad, 482010026 ChannelviewRoad, HumidityRelative SLAMSPAMS, HumidityEmissionsEmissions<
Sugar Land482010026 ChannelviewChannelview0.3SLAMSUV PhotometricContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405RelativePAMS,HumiditySensorContinuousSuburbanImpactNeighborhood29.80271-95.1Sugar Land482010026 ChannelviewChannelviewHumiditySLAMSSensorContinuousSuburbanImpactNeighborhood29.80271-95.1Woodlands-Road,SolarPAMS,SensorContinuousSuburbanImpactNeighborhood29.80271-95.1Sugar Land482010026 ChannelviewChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonFeatoreFeat
Houston-The Woodlands- Sugar Land1405 Sheldon Road, ChannelviewRelative Relative HumidityPAMS, SensorHumidity ContinuousSuburban SuburbanImpact Max Precursor EmissionsNeighborhood 29.8027129.80271 -95.11Houston-The Woodlands- Woodlands- Sugar Land482010026 Channelview ChannelviewRoad, Road, SolarSolar PAMS, SLAMSPhotovoltaic ContinuousContinuousSuburban EmissionsImpact NeighborhoodNeighborhood 29.80271-95.11 -95.11Houston-The Woodlands- Nodads- Nodada- Road, Sugar LandRoad, Road, SpeciatedSpeciated PAMS, SLAMSPhotovoltaic ContinuousContinuous SuburbanImpact Exposure Max Precursor EmissionsNeighborhood 29.80271-95.11 -95.11Houston-The Woodlands- Nodada- Road, Sugar Land Houston-The Woodlands- Road, Sugar Land Houston-The Woodlands- Road, Sugar Land Houston-The Houston-The Woodlands- Road, Sugar Land Houston-The Houston-The Houston-The Houston-The Houston-The Houston-The Houston-The Houston-TheTemperature PAMS, Channelview (AutoGC) SLAMS (AutoGC) SLAMS CupSuburban Themister Continuous SuburbanNeighborhood Population Exposure Max Precursor Max Precursor Max Precursor Max Precursor Max PrecursorPopulation Population Population Population Potentiometer Max Precursor Max Precursor Max PrecursorPopulation Population Population Potentiometer Population Potentiometer Potentiometer Potentiometer Potentiomete
Woodlands- Sugar LandRoad, (hannelviewRelative HumidityPAMS, SLAMSHumidityEmissionsSugar Land482010026 ChannelviewChannelviewHumiditySLAMSSensorContinuousSuburbanImpactNeighborhood29.80271-95.11Woodlands-Road,SolarPAMS,EmissionsEmissionsSuburbanImpactNeighborhood29.80271-95.11Sugar Land482010026 ChannelviewChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.11Woodlands-Road,SpeciatedPAMS,PhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.11Woodlands-Road,SpeciatedPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.11Houston-The1405 SheldonVOC (AutoGC)SLAMSGCContinuousSuburbanExposureNeighborhood29.80271-95.11Houston-The1405 SheldonVOC (AutoGC)SLAMSGCContinuousSuburbanImpactNeighborhood29.80271-95.11Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedEmissionsExposureNeighborhood29.80271-95.11Houston-The1405 SheldonChannelview(AutoGC)SLAMSGCContinuousSuburbanImpactNeighborhood29.80271-95.11Houston-The </td
Sugar Land482010026 ChannelviewChannelviewHumiditySLAM'SSensorContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SolarPAMS,EmissionsEmissions29.80271-95.1Sugar Land482010026 ChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SpeciatedPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonRoad,SpeciatedPAMS,GCContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonFemperaturePAMS,GCContinuousSuburbanExposureNeighborhood29.80271-95.1Houston-The1405 SheldonTemperaturePAMS,AspiratedEmissionsEmissionsEmissionsEmissions-Woodlands-Road,TMMOCPAMS,CupEmissionsEmissions95.195.195.195.195.1 </td
Houston-The1405 SheldonMax PrecursorWoodlands-Road,SolarPAMS,EmissionsSugar Land482010026 ChannelviewChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-The1405 SheldonRoad,SpeciatedPAMS,PopulationPopulation
Sugar Land482010026 ChannelviewChannelviewRadiationSLAMSPhotovoltaicContinuousSuburbanImpactNeighborhood29.80271-95.13Houston-The1405 SheldonRoad,SpeciatedPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.13Houston-The1405 SheldonVOC (AutoGC)SLAMSGCContinuousSuburbanExposureNeighborhood29.80271-95.13Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedEmissions-Woodlands-Road,TemperaturePAMS,AspiratedSuburbanImpactNeighborhood29.80271-95.13Houston-The1405 SheldonFemperaturePAMS,AspiratedEmissionsWoodlands-Road,TNMOCPAMS,ContinuousSuburbanImpactNeighborhood29.80271-95.13Houston-The1405 Sheldon-Population<
Houston-The Woodlands- Sugar Land       1405 Sheldon       Population       Population         Sugar Land       482010026 Channelview Houston-The       CAnnelview 1405 Sheldon       VOC (AutoGC)       SLAMS       GC       Continuous       Suburban       Exposure       Neighborhood       29.80271       -95.12         Woodlands- Moodlands-       Road,       Temperature       PAMS,       Aspirated       Emissions       - </td
Houston-The Woodlands- Sugar Land       1405 Sheldon       Population       Population         Sugar Land       482010026 Channelview Houston-The       CAnnelview 1405 Sheldon       VOC (AutoGC)       SLAMS       GC       Continuous       Suburban       Exposure       Neighborhood       29.80271       -95.12         Woodlands- Moodlands-       Road,       Temperature       PAMS,       Aspirated       Emissions       - </td
Sugar Land482010026 ChannelviewChannelviewVOC (AutoGC)SLAMSGCContinuousSuburbanExposureNeighborhood29.80271-95.13Houston-The1405 SheldonRoad,TemperaturePAMS,AspiratedEmissionsEmissions<
Houston-The1405 SheldonMax PrecursorWoodlands-Road,TemperaturePAMS,AspiratedEmissionsSugar Land482010026 ChannelviewChannelview(Outdoor)SLAMSThermisterContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-The1405 SheldonRoad,TNMOCPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-The1405 SheldonRoad,TNMOCPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-The1405 SheldonPotentiometerMax PrecursorNeighborhood29.80271-95.12Houston-The1405 SheldonPotentiometerMax PrecursorNeighborhood29.80271-95.12Houston-The1405 SheldonPotentiometerMax PrecursorNeighborhood29.80271-95.12Woodlands-Road,PAMS,CupEmissionsSuperationalSuperationalSuperationalSugar Land482010026 ChannelviewChannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-TheStannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-TheStannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12H
Woodlands-Road,TemperaturePAMS,AspiratedEmissionsSugar Land482010026 ChannelviewChannelview(Outdoor)SLAMSThermisterContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-The1405 SheldonRoad,TNMOCPAMS,ContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-TheRoad,TNMOCPAMS,CContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-The1405 SheldonPotentiometerMax PrecursorMax Precursor95.02-95.12Houston-The1405 SheldonPAMS,CupEmissionsWoodlands-Road,PAMS,CupEmissionsSugar Land482010026 ChannelviewChannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12
Sugar Land482010026 ChannelviewChannelview(Outdoor)SLAMSThermisterContinuousSuburbanImpactNeighborhood29.80271-95.13Houston-The1405 SheldonRoad,TNMOCPAMS,PopulationPopulation
Houston-The1405 SheldonWoodlands-Road,TNMOCPAMS,PopulationSugar Land482010026 ChannelviewChannelview(AutoGC)SLAMSGCContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-The1405 SheldonPotentiometerMax PrecursorWoodlands-Road,PAMS,CupEmissionsSugar Land482010026 ChannelviewChannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-TheBarometricBarometricMax PrecursorMax Precursor
Woodlands-Road,TNMOCPAMS,PopulationSugar Land482010026 ChannelviewChannelview(AutoGC)SLAMSGCContinuousSuburbanExposureNeighborhood29.80271-95.12Houston-The1405 SheldonPAMS,CupMax PrecursorWoodlands-Road,PAMS,CupEmissionsSugar Land482010026 ChannelviewChannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-TheBarometricMax PrecursorWoodlands-9525 1/2 ClintonBarometricPAMS,pressureUrban andEmissions </td
Sugar Land Houston-The482010026 Channelview 1405 SheldonChannelview (AutoGC)SLAMS PotentiometerGCContinuous PotentiometerSuburban PotentiometerExposure Max PrecursorNeighborhood 29.8027129.80271 -95.12Woodlands-Road,PAMS, Road,CupEmissionsEmissions9.80271 -95.12-95.12Sugar Land Houston-The482010026 Channelview 9525 1/2 Clinton Dr, HoustonWindSLAMS PAMS, PAMS,Anemometer BarometricContinuous PressureSuburban Max PrecursorImpact Max PrecursorNeighborhood 29.80271 29.80271 -95.12Woodlands- Sugar Land Houston-The9525 1/2 Clinton Dr, HoustonPAMS, Pressurepressure SLAMSUrban and transducerEmissionsSugar Land Houston-The482011035 Clinton 
Houston-The1405 SheldonPotentiometerMax PrecursorWoodlands-Road,PAMS,CupEmissionsSugar Land482010026 ChannelviewChannelviewWindSLAMSAnemometerContinuousSuburbanImpactNeighborhood29.80271-95.12Houston-TheBarometricBarometricMax PrecursorMax Precursor-95.12-95.12Woodlands-9525 1/2 ClintonBarometricPAMS,pressureUrban andEmissionsSugar Land482011035 ClintonDr, HoustonPressureSLAMStransducerContinuousCenter CityImpactNeighborhood29.73373-95.22Houston-The24 HoursMax Precursor24 HoursMax Precursor-95.21-95.21
Woodlands-       Road,       PAMS,       Cup       Emissions         Sugar Land       482010026 Channelview       Channelview       Wind       SLAMS       Anemometer       Continuous       Suburban       Impact       Neighborhood       29.80271       -95.12         Houston-The       Barometric       Barometric       Barometric       Max Precursor         Woodlands-       9525 1/2 Clinton       Barometric       PAMS,       pressure       Urban and       Emissions         Sugar Land       482011035 Clinton       Dr, Houston       Pressure       SLAMS       transducer       Continuous       Center City       Impact       Neighborhood       29.73373       -95.22         Houston-The       24 Hours       Max Precursor       Max Precursor       482011035 Clinton       Dr, Houston       Pressure       SLAMS       transducer       Continuous       Center City       Impact       Neighborhood       29.73373       -95.22         Houston-The       24 Hours       Max Precursor       Max Precursor       Max Precursor       24 Hours       Max Precursor
Sugar Land Houston-The482010026 ChannelviewChannelviewWindSLAMSAnemometer BarometricContinuousSuburbanImpactNeighborhood29.80271-95.1Woodlands- Sugar Land9525 1/2 ClintonBarometricPAMS, PressurepressureUrban and transducerEmissions
Houston-The     Barometric     Max Precursor       Woodlands-     9525 1/2 Clinton     Barometric     PAMS,     pressure     Urban and     Emissions       Sugar Land     482011035 Clinton     Dr, Houston     Pressure     SLAMS     transducer     Continuous     Center City     Impact     Neighborhood     29.73373     -95.21       Houston-The     24 Hours     Max Precursor
Sugar Land         482011035 Clinton         Dr, Houston         Pressure         SLAMS         transducer         Continuous         Center City         Impact         Neighborhood         29.73373         -95.23           Houston-The         24 Hours         Max Precursor
Houston-The 24 Hours Max Precursor
Woodlands- 9525 1/2 Clinton PAMS DNPH Silica 1/6 days: Urban and Emissions
Sugar Land         482011035 Clinton         Dr, Houston         Carbonyl         SLAMS         HPLC         Seasonal         Center City         Impact         Neighborhood         29.73373         -95.21
Max Precursor
Emissions
Houston-The Impact; Woodlands- 9525 1/2 Clinton CO (High Gas Filter Urban and Population
Sugar Land 482011035 Clinton Dr, Houston Sensitivity) SPM Correlation Continuous Center City Exposure Neighborhood 29.73373 -95.2 Houston-The
Woodlands- 9525 1/2 Clinton Urban and Population
Sugar Land 482011035 Clinton Dr, Houston Dew Point SPM Derived at site Continuous Center City Exposure Neighborhood 29.73373 -95.2
Max Precursor
Emissions
Houston-The Impact;
Woodlands- 9525 1/2 Clinton PAMS, Chemilumine- Urban and Population
Sugar Land 482011035 Clinton Dr, Houston NO/NO2/NOx SLAMS scence Continuous Center City Exposure Neighborhood 29.73373 -95.2
Max Precursor
Emissions
Houston-The Impact;
Woodlands-       9525 1/2 Clinton       PAMS,       Urban and       Population         Sugar Land       482011035 Clinton       Dr, Houston       O3       SLAMS       UV Photometric Continuous       Center City       Exposure       Neighborhood       29.73373       -95.21

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The					QA				Highest Concentration;			
Woodlands-			9525 1/2 Clinton		Collocated,		24 Hours;	Urban and	Population			
Sugar Land	482011035	Clinton	Dr, Houston	PM10 (FRM)	SLAMS	Gravimetric	1/12 Days	Center City	Exposure	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	PM10 (FRM)	SLAMS	HiVol Gravimetric	24 Hours; 1/6 Days	Urban and Center City	Highest Concentration; Source Oriented	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	PM2.5 (FRM)	SLAMS	Sequential FRM Gravimetric	24 Hours; 1/1 Days	Urban and Center City	Highest Concentration; Population Exposure; Source Oriented	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	PM2.5 (FRM)	QA Collocated, SLAMS	Sequential FRM Gravimetric	1/12 Days	Urban and Center City	Highest Concentration; Population Exposure	Neighborhood	29.73373	-95.25759
Houston-The Woodlands-			9525 1/2 Clinton	PM2.5 (Speciation)			24 Hours 1/6 days;	Urban and	Highest			
Sugar Land	482011035	Clinton	Dr, Houston	pending	SPM		Seasonal	Center City	Concentration	Middle Scale	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	PM2.5 (TEOM) <sup>N</sup>	SPM	TEOM Gravimetric	Continuous	Urban and Center City	Population Exposure	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	Precipitation	SPM	Rain Gauge	Continuous	Urban and Center City	Max Precursor Emissions Impact; Population Exposure	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	Relative Humidity	PAMS, SLAMS	Humidity Sensor	Continuous	Urban and Center City	Max Precursor Emissions Impact	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	S02	SLAMS	Pulsed Fluorescence	Continuous	Urban and Center City	Population Exposure	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035		9525 1/2 Clinton Dr, Houston	Solar Radiation	PAMS, SLAMS	Photovoltaic	Continuous	Urban and Center City	Max Precursor Emissions Impact	Neighborhood	29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035		9525 1/2 Clinton Dr, Houston		PAMS,	GC	Continuous	Urban and Center City	Highest Concentration; Population Exposure; Source Oriented		29.73373	-95.25759
Houston-The Woodlands- Sugar Land	482011035	Clinton	9525 1/2 Clinton Dr, Houston	Temperature (Outdoor)	PAMS, SLAMS	Aspirated Thermister	Continuous	Urban and Center City	Max Precursor Emissions Impact	Neighborhood	29.73373	-95.25759

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
									Highest Concentration;			
Houston-The									Population			
Woodlands-	402011025	Clinton	9525 1/2 Clinton		PAMS,	<u> </u>	Continuous	Urban and	Exposure;	Najabbarbaad	20 22222	05 25750
Sugar Land Houston-The	482011035	Clinton	Dr, Houston	(AutoGC)	SLAMS	GC	Continuous	Center City	Source Oriented Max Precursor	Neighborhood	29.73373	-95.25759
Woodlands-			9525 1/2 Clinton		PAMS,			Urban and	Emissions			
Sugar Land	482011035	Clinton	Dr, Houston	UV Radiation	SLAMS	Photovoltaic	Continuous	Center City	Impact	Neighborhood	29.73373	-95.25759
Houston-The						Potentiometer			Max Precursor			
Woodlands-			9525 1/2 Clinton		PAMS,	Cup		Urban and	Emissions			
Sugar Land	482011035	Clinton	Dr, Houston	Wind	SLAMS	Anemometer	Continuous	Center City	Impact General,	Neighborhood	29.73373	-95.25759
Houston-The									Background;			
Woodlands-		Conroe	9472A Hwy		PAMS,	Chemilumine-			Population			
Sugar Land	483390078	Relocated	1484, Conroe	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Urban Scale	30.35030	-95.42513
									General,			
Houston-The		_							Background;			
Woodlands-		Conroe	9472A Hwy		PAMS,		<b>a</b>		Population			
Sugar Land Houston-The	483390078	Relocated	1484, Conroe	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	30.35030	-95.42513
Woodlands-		Conroe	9472A Hwy	PM2.5		ТЕОМ			General,			
Sugar Land	483390078		1484, Conroe	(TEOM) <sup>N</sup>	SPM	Gravimetric	Continuous	Suburban	Background	Neighborhood	30.35030	-95.42513
Houston-The			. ,	<u> </u>								
Woodlands-		Conroe	9472A Hwy	Solar	PAMS,				Highest			
Sugar Land Houston-The	483390078	Relocated	1484, Conroe	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Concentration	Neighborhood	30.35030	-95.42513
Woodlands-		Conroe	9472A Hwy	Temperature	PAMS,	Aspirated			Highest			
Sugar Land	483390078		1484, Conroe	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Concentration	Neighborhood	30.35030	-95.42513
Houston-The	10000000	Refocated		(outdoor)	02/110	Potentiometer	continuous	Suburburi	concentration	Heighborhood	50155050	55112515
Woodlands-		Conroe	9472A Hwy		PAMS,	Cup			Highest			
Sugar Land	483390078	Relocated	1484, Conroe	Wind	SLAMS	Anemometer	Continuous	Suburban	Concentration	Neighborhood	30.35030	-95.42513
Houston The									General,			
Houston-The Woodlands-		Galveston 99th							Background; Upwind			
Sugar Land	481671034		1/2, Galveston	Dew Point	SPM	Derived at site	Continuous	Suburban	Background	Middle Scale	29.25447	-94.86129
Sugar Lana	1010/1051	01.000	1/2/ 00//05/01	Den Fonte	0111	Derived de Site	continuous	Suburbur	General,		25.25117	51.00125
Houston-The									Background;			
Woodlands-		Galveston 99th			PAMS,	Chemilumine-			Upwind	Middle Scale,		
Sugar Land	481671034	Street	1/2, Galveston	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
Houston-The									Max Ozone Concentration;			
Woodlands-		Galveston 99th			PAMS,				Upwind			
Sugar Land	481671034		1/2, Galveston	03	SLAMS	UV Photometric	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
Houston-The	1010/1004		_, _, _, ca.veston		520	2.1.1.0001100110	20.1.14045	Subu.buit		Statt State	25125117	5 1100125
Woodlands-		Galveston 99th	9511 Avenue V			Beta			Regional			
Sugar Land	481671034	Street	1/2, Galveston	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Transport	Regional Scale	29.25447	-94.86129

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The									Max Ozone Concentration;			
Woodlands-		Galveston 99th	9511 Avenue V	Relative	PAMS,	Humidity			, Upwind			
Sugar Land	481671034	Street	1/2, Galveston	Humidity	SLAMS	Sensor	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
Houston-The									Max Ozone Concentration;			
Woodlands-		Galveston 99th	9511 Avenue V	Solar	PAMS,				Upwind			
Sugar Land	481671034	Street	1/2, Galveston	Radiation	SLAMS	Photovoltaic	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
Houston-The									Max Ozone			
Woodlands-		Galveston 99th	9511 Avenue V	Temperature	PAMS,	Aspirated			Concentration; Upwind			
Sugar Land	481671034		1/2, Galveston	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
									Max Özone			
Houston-The Woodlands-		Calveston 00th	9511 Avenue V		PAMS,	Potentiometer Cup			Concentration; Upwind			
Sugar Land	481671034		1/2, Galveston	Wind	SLAMS	Anemometer	Continuous	Suburban	Background	Urban Scale	29.25447	-94.86129
Houston-The	1010/1051	50,000	1/2, 641465(611	Wind	32413	Barometric	continuous	Suburbun	Buckground	orban Scale	23.23117	51.00125
Woodlands-			4510 1/2 Aldine	Barometric	PAMS,	pressure			Max Ozone			
Sugar Land Houston-The	482010024	Houston Aldine	Mail Rd, Houston	Pressure	SLAMS	transducer	Continuous	Suburban	Concentration	Neighborhood	29.90104	-95.32614
Woodlands-			4510 1/2 Aldine						Population			
Sugar Land	482010024	Houston Aldine	Mail Rd, Houston	Dew Point	SPM	Derived at site	Continuous	Suburban	Exposure	Urban Scale	29.90104	-95.32614
									Max Ozone			
Houston-The			4E10 1/2 Aldina		DAMC	Chamilumina			Concentration;			
Woodlands- Sugar Land	482010024	Houston Aldine	4510 1/2 Aldine Mail Rd, Houston		PAMS, SLAMS	Chemilumine- scence	Continuous	Suburban	Population Exposure	Neighborhood	29.90104	-95.32614
Sugar Lana	102010021	nouscon / nume		110/1102/1102	56715	Scence	continuous	Suburban	Exposure	Neighborhood	25.50101	55.52011
						Chemilumine-			Max Ozone			
Houston-The Woodlands-			4510 1/2 Aldine	NOv (High	DAME	scence			Concentration;			
Sugar Land	482010024	Houston Aldine	Mail Rd, Houston	NOy (High Sensitivity)	PAMS, SLAMS	Teledyne API200 EU/501	Continuous	Suburban	Population Exposure	Neighborhood	29.90104	-95.32614
Sugar Lana	102010021	nouscon , nume		Scholeriegy	02.110	/ 1200 20/001	continuous	Suburbur	Max Ozone	Reighborhood	25150101	55152011
Houston-The									Concentration;			
Woodlands-	492010024	Houston Aldino	4510 1/2 Aldine	03	PAMS,	LIV Dhatamatria	Continuous	Cuburban	Population	Najabbarbaad	20.00104	05 22614
Sugar Land Houston-The	482010024	Houston Aldine	Mail Rd, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.90104	-95.32614
Woodlands-			4510 1/2 Aldine			Beta			Population			
Sugar Land	482010024	Houston Aldine	Mail Rd, Houston	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Suburban	Exposure	Neighborhood	29.90104	-95.32614
Houston-The Woodlands-			4510 1/2 Aldine		QA Collocated,	Sequential FRM			Population			
Sugar Land	482010024	Houston Aldine	Mail Rd, Houston	PM2 5 (FRM)	SLAMS	Gravimetric	1/12 Days	Suburban	Exposure	Neighborhood	29.90104	-95.32614
Houston-The	102010021	The about the second seco		111213 (11(1))	02/110	Gravineene	1,12 00,0	Suburbur	Lipeedie	neighbornood	25150101	55152011
Woodlands-			4510 1/2 Aldine	Relative	PAMS,	Humidity			Max Ozone			
Sugar Land Houston-The	482010024	Houston Aldine	Mail Rd, Houston	Humidity	SLAMS	Sensor	Continuous	Suburban	Concentration	Neighborhood	29.90104	-95.32614
Woodlands-			4510 1/2 Aldine	Solar	PAMS,				Max Ozone			
Sugar Land	482010024	Houston Aldine	Mail Rd, Houston		SLAMS	Photovoltaic	Continuous	Suburban	Concentration	Neighborhood	29.90104	-95.32614
Houston-The				_								
Woodlands-	402010024	Houston Aldina	•	Temperature	PAMS,	Aspirated	Continuous	Cuburban	Max Ozone	Noighborbood	20.00104	05 22614
Sugar Land	482010024		Mail Rd, Houston		SLAMS	Thermister	Continuous	Supurpan	Concentration	Neighborhood	29.90104	-95.32614

Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude	Longitude
CBSA	Number	Site Name	Location	Туре			Schedule	Setting	Objective		Latitude	Longitude
Houston-The						Potentiometer						
Woodlands-			4510 1/2 Aldine		PAMS,	Cup	<b>a</b>		Max Ozone			
Sugar Land Houston-The	482010024	Houston Aldine	Mail Rd, Houston	Wind	SLAMS	Anemometer	Continuous	Suburban	Concentration	Neighborhood	29.90104	-95.32614
Woodlands-		Houston	6400 Bissonnet			Chemilumine-			Population	Middle Scale,		
Sugar Land	482010055	Bayland Park	Street, Houston	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Neighborhood	29.69573	-95.49922
Houston-The	402010055	Daylallu Falk	Street, Houston	10/102/102	JLAM5	Scence	Continuous	Suburban	LAPOSULE	Neighborhood	29.09373	-93.49922
Woodlands-		Houston	6400 Bissonnet						Population			
Sugar Land	482010055	Bayland Park	Street, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Middle Scale	29.69573	-95.49922
			,						General,			
									Background;			
Houston-The									Max Precursor			
Woodlands-		Houston	6400 Bissonnet	Solar					Emissions			
Sugar Land	482010055	Bayland Park	Street, Houston	Radiation	SPM	Photovoltaic	Continuous	Suburban	Impact	Middle Scale	29.69573	-95.49922
									General,			
Houston-The									Background; Max Precursor			
Woodlands-		Houston	6400 Bissonnet	Temperature		Aspirated			Emissions			
Sugar Land	482010055	Bayland Park	Street, Houston	(Outdoor)	SPM	Thermister	Continuous	Suburban	Impact	Middle Scale	29.69573	-95.49922
	402010055	Daylanu Fark	Street, Houston	(Outdoor)	JEPT	mermister	Continuous	Suburban	General,	Midule Scale	29.09373	-33.43322
									Background;			
Houston-The						Potentiometer			Max Precursor			
Woodlands-		Houston	6400 Bissonnet			Cup			Emissions			
Sugar Land	482010055	Bayland Park	Street, Houston	Wind	SPM	Anemometer	Continuous	Suburban	Impact	Middle Scale	29.69573	-95.49922
Houston-The												
Woodlands-		Houston	13826 1/2						Population			
Sugar Land	482010051	Croquet	Croquet, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.62389	-95.47417
Houston-The Woodlands-		Houston	13826 1/2			Pulsed			Dopulation			
Sugar Land	482010051		Croquet, Houston	502	SLAMS	Fluorescence	Continuous	Suburban	Population Exposure	Neighborhood	29.62389	-95.47417
Houston-The	402010031	Cloquet	Croquet, nouston	302	SLAMS	Thublescence	Continuous	Suburban	LAPOSULE	Neighborhood	29.02309	-93.47417
Woodlands-		Houston	13826 1/2	Temperature		Aspirated			Population			
Sugar Land	482010051	Croquet	Croquet, Houston	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	29.62389	-95.47417
Houston-The			. ,	· · · ·		Potentiometer						
Woodlands-		Houston	13826 1/2			Cup			Population			
Sugar Land	482010051	Croquet	Croquet, Houston	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	29.62389	-95.47417
Houston-The				<b>-</b>	<b>D</b> 4 4 4	Barometric						
Woodlands-	400044000	Houston Deer	4514 1/2 Durant		PAMS,	pressure	<b>a</b>	Urban and	General,		20 67000	05 40054
Sugar Land	482011039	Park #2	St, Deer Park	Pressure	SLAMS	transducer	Continuous	Center City	Background Max Precursor	Neighborhood	29.67003	-95.12851
							24 Hours;		Emissions			
Houston-The							Seasonal, 8		Impact;			
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,	DNPH Silica	Hour;	Urban and	Population			
Sugar Land	482011039		St, Deer Park	Carbonyl	SLAMS	HPLC	Seasonal	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The								······································				
Woodlands-		Houston Deer	4514 1/2 Durant	CO (High	NCORE,	Gas Filter		Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	Sensitivity)	SLAMS	Correlation	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The												
Woodlande												
Woodlands- Sugar Land	482011039	Houston Deer	4514 1/2 Durant St, Deer Park	Dew Point	SPM	Derived at site	Carl	Urban and Center City	Population Exposure	Neighborhood	29.67003	-95.12851

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The									Population			
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,	Direct-Read		Urban and	Exposure;			
Sugar Land	482011039	Park #2	St, Deer Park	NO2 (Direct)	SLAMS	NO2	Continuous	Center City	Source Oriented	Neighborhood	29.67003	-95.12851
					NCORE	Chemilumine-						
Houston-The					NCORE,	scence		I block and				
Woodlands-	402011020	Houston Deer	4514 1/2 Durant		PAMS,	Teledyne	Cantinuau	Urban and	Population	N a i a la la a vila a a d	20 67002	05 10051
Sugar Land	482011039	Рагк #2	St, Deer Park	Sensitivity)	SLAMS	API200 EU/501	Continuous	Center City	Exposure Max Precursor	Neighborhood	29.67003	-95.12851
									Emissions			
Houston-The					NCORE,				Impact;			
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,			Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	03	SLAMS	UV Photometric	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The			· · ·			Beta			·			
Woodlands-		Houston Deer	4514 1/2 Durant		NCORE,	Attenuation,		Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	PM10-2.5	SLAMS	185 calculated	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The Woodlands-		Haustan Deer	4514 1/2 Durant		NCODE	Beta		Luban and	Deputation			
Sugar Land	482011039	Houston Deer	4514 1/2 Durant St, Deer Park	PM2.5	NCORE, SLAMS	Attenuation, 170	Continuous	Urban and Center City	Population Exposure	Neighborhood	29.67003	-95.12851
Houston-The	402011039	Faik #2	St, Deel Falk	FMZ.J	3LAM3	170	Continuous	Center City	LAPOSULE	Neighborhood	29.07003	-95.12651
Woodlands-		Houston Deer	4514 1/2 Durant		NCORE,	Sequential FRM	24 Hours;	Urban and	Population			
Sugar Land	482011039		St, Deer Park	PM2.5 (FRM)	SLAMS	Gravimetric	1/3 Days	Center City	Exposure	Neighborhood	29.67003	-95.12851
					<b>a a</b> ;	<b>a</b> . I						
Houston-The				D.4.0 F	Csn Stn,	Carbons,	24.11		5			
Woodlands-	400044000	Houston Deer	4514 1/2 Durant		NCORE,	Elements, Ions,		Urban and	Population		20 67000	05 40054
Sugar Land	482011039	Park #2	St, Deer Park	(Speciation)	SLAMS	SASS/URG	1/3 Days	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The					Csn Stn, QA	Carbons,						
Woodlands-		Houston Deer	4514 1/2 Durant	PM2.5		Elements, Ions,	24 Hours;	Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	(Speciation)	SLAMS	SASS/URG	1/6 Days	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The												
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,			Urban and	General,			
Sugar Land	482011039	Park #2	St, Deer Park	Precipitation	SLAMS	Rain Gauge	Continuous	Center City	Background	Neighborhood	29.67003	-95.12851
Houston-The Woodlands-		Houston Deer	4514 1/2 Durant	Polativo	NCORE, PAMS,	Humidity		Urban and	Max Precursor Emissions			
Sugar Land	482011039		St, Deer Park	Humidity	SLAMS	Sensor	Continuous	Center City	Impact	Neighborhood	29,67003	-95.12851
Houston-The	402011035		St, Deel Tark	Hannarcy	SLANS	501301	Continuous	center city	Impact	Neighborhood	29.07005	55.12051
Woodlands-		Houston Deer	4514 1/2 Durant	SO2 (High	NCORE,	Pulsed		Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	Sensitivity)	SLAMS	Fluorescence	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The									Max Precursor			
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,			Urban and	Emissions			
Sugar Land	482011039	Park #2	St, Deer Park	Radiation	SLAMS	Photovoltaic	Continuous	Center City	Impact Max Precursor	Neighborhood	29.67003	-95.12851
									Max Precursor Emissions			
Houston-The									Impact;			
Woodlands-		Houston Deer	4514 1/2 Durant	Speciated	PAMS,			Urban and	Population			
Sugar Land	482011039		St, Deer Park	VOC (AutoGC)	- /	GC	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
			•	, ······	-			1		<b>2</b> · · · ·		

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The	Number		Location	Туре	NCORE,		Schedule	Setting	Max Precursor		<u> </u>	
Woodlands-		Houston Deer	4514 1/2 Durant	Temperature	PAMS,	Aspirated		Urban and	Emissions			
Sugar Land	482011039		St, Deer Park	(Outdoor)	SLAMS	Thermister	Continuous	Center City	Impact	Neighborhood	29.67003	-95.12851
eaga: Lana	.02011000			(outdool)	0211110		Continuodo	conten only	Max Precursor	neighbenneeu		50112001
									Emissions			
Houston-The									Impact;			
Woodlands-		Houston Deer	4514 1/2 Durant	TNMOC	PAMS,			Urban and	Population			
Sugar Land	482011039	Park #2	St, Deer Park	(AutoGC)	SLAMS	GC	Continuous	Center City	Exposure	Neighborhood	29.67003	-95.12851
Houston-The												
Woodlands-		Houston Deer	4514 1/2 Durant		PAMS,			Urban and	General,			
Sugar Land	482011039	Park #2	St, Deer Park	UV Radiation	SLAMS	Photovoltaic	Continuous	Center City	Background	Neighborhood	29.67003	-95.12851
Houston-The		Haustan Daar	4514 1/2 Dument		NCORE,	Potentiometer		linhan and	Max Precursor			
Woodlands-	402011020	Houston Deer	4514 1/2 Durant	\\/:	PAMS,	Cup	Cantinuau	Urban and	Emissions	N a i a la la a via a a d	20 67002	05 10051
Sugar Land	482011039	Park #2	St, Deer Park	Wind	SLAMS	Anemometer	Continuous	Center City	Impact Highest	Neighborhood	29.67003	-95.12851
Houston-The									Concentration:			
Woodlands-			1262 1/2 Mae			Chemilumine-			Population	Middle Scale,		
Sugar Land	482011034	Houston East	Drive, Houston	NO/NO2/NOx	SIAMS	scence	Continuous	Suburban	Exposure	Neighborhood	29.76800	-95.22058
Houston-The	402011034		Brive, nouscon	10/102/102	JLANJ	Scence	Continuous	Suburban	Exposure	Neighborhood	29.70000	55.22050
Woodlands-			1262 1/2 Mae						Population			
Sugar Land	482011034	Houston East	Drive, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.76800	-95.22058
Houston-The			,									
Woodlands-			1262 1/2 Mae			Beta			Population			
Sugar Land	482011034	Houston East	Drive, Houston	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Exposure	Neighborhood	29.76800	-95.22058
Houston-The												
Woodlands-			1262 1/2 Mae	Temperature		Aspirated			Population			
Sugar Land Houston-The	482011034	Houston East	Drive, Houston	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Suburban	Exposure	Urban Scale	29.76800	-95.22058
Woodlands-			1262 1/2 Maa			Cup			Denulation			
Sugar Land	492011024	Houston East	1262 1/2 Mae	Wind	SPM	Anemometer	Continuous	Cuburban	Population	Neighborhood	29,76800	-95.22058
Houston-The	402011034	HOUSION EASI	Drive, Houston	wind	5819	Allemonieter	Continuous	Suburban	Exposure	Neighborhood	29.70000	-95.22056
Woodlands-		Houston	160 Harvard			Chemilumine-		Urban and	Population			
Sugar Land	482010417		Street, Houston	NO/NO2/NOx	SPM	scence	Continuous	Center City	Exposure	Neighborhood	29.77292	-95.39578
Houston-The	102010117			110/1102/110X	0111	Sechee	continuous	center enty	Exposure	Neighbornood	25177252	55155576
Woodlands-		Houston	160 Harvard					Urban and	Population			
Sugar Land	482010417	Harvard Street	Street, Houston	03	SPM	UV Photometric	Continuous	Center City	Exposure	Neighborhood	29.77292	-95.39578
Houston-The												
Woodlands-		Houston	5565 Kirkpatrick,	Temperature		Aspirated			Population			
Sugar Land	482010060	Kirkpatrick	Houston	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	29.80741	-95.29362
Houston-The						Potentiometer						
Woodlands-		Houston	5565 Kirkpatrick,		~~~	Cup			Population			
Sugar Land	482010060	Kirkpatrick	Houston	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	29.80741	-95.29362
Houston-The Woodlands-		Houston	0726 1/2						Dopulation			
	492010002	Houston	9726 1/2 Manroa Houston	02	SLAME	LIV Dhotomotria	Continuous	Cuburbar	Population	Noighborhood		05 26722
Sugar Land Houston-The	482010062	Monroe	Monroe, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.62556	-95.26722
Woodlands-		Houston	9726 1/2			HiVol	24 Hours;		Population			
Sugar Land	482010062		Monroe, Houston	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Suburban	Exposure	Neighborhood	29.62556	-95.26722
cugai cuna	102010002				001110	Statilication	_/ 0 Duy5	Suburbur	Exposure	neighborhood	25102550	55120722

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude I	Longitude
Houston-The			Location	Турс			Schedule	Setting				
Woodlands-		Houston	9726 1/2						General,			
Sugar Land	482010062		Monroe, Houston	Precipitation	SPM	Rain Gauge	Continuous	Suburban	Background	Neighborhood	29.62556	-95.26722
Houston-The									Max Precursor			
Woodlands-		Houston North	822 North Loop,		Near Road,	Gas Filter		Urban and	Emissions			
Sugar Land	482011052	Loop	Houston	CO	SLAMS	Correlation	Continuous	Center City	Impact	Microscale	29.81453	-95.38769
Houston-The								· · · · · ·	Max Precursor			
Woodlands-		Houston North	822 North Loop,		Near Road,	Chemilumine-		Urban and	Emissions			
Sugar Land	482011052	Loop	Houston	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Impact	Microscale	29.81453	-95.38769
Houston-The									Max Precursor			
Woodlands-		Houston North	822 North Loop,		Near Road,	Sequential FRM		Urban and	Emissions			
Sugar Land	482011052	Loop	Houston	PM2.5 (FRM)	SLAMS	Gravimetric	1/3 Days	Center City	Impact	Microscale	29.81453	-95.38769
Houston-The				<b>-</b> .					Max Precursor			
Woodlands-		Houston North	822 North Loop,	Temperature		Aspirated		Urban and	Emissions			
Sugar Land	482011052	Loop	Houston	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	29.81453	-95.38769
Houston-The		Llaustan Nauth	000 No. 10 1			Potentiometer		Linkan and	Max Precursor			
Woodlands-	402011052	Houston North	822 North Loop,	MC and	CDM	Cup	C. I.	Urban and	Emissions	Mississi	20.01452	05 20760
Sugar Land Houston-The	482011052	Loop	Houston 7330 1/2 North	Wind	SPM	Anemometer	Continuous	Center City	Impact	Microscale	29.81453	-95.38769
Woodlands-		Houston North	Wayside,						Population			
Sugar Land	482010046		Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Naiabharbaad	29.82809	-95.28410
Houston-The	402010040	wayside	7330 1/2 North	03	5LAM5	ov Photometric	Continuous	Suburbali	Exposure	Neighborhood	29.02009	-95.26410
Woodlands-		Houston North	Wayside,	PM10 (TEOM		ТЕОМ			General,			
Sugar Land	482010046		Houston	1405)	SPM	Gravimetric	Continuous	Suburban	Background	Neighborhood	29,82809	-95.28410
Houston-The	102010010	Wayshac	7330 1/2 North	1100)	0111	oravinicane	Continuous	Suburbuit	Duonground	Heighborhood	25102005	55120110
Woodlands-		Houston North	Wayside,			Beta			Population			
Sugar Land	482010046	Wayside	Houston	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Exposure	Neighborhood	29.82809	-95.28410
Houston-The		,	7330 1/2 North						·			
Woodlands-		Houston North	Wayside,	Temperature		Aspirated			General,			
Sugar Land	482010046	Wayside	Houston	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	29.82809	-95.28410
Houston-The			7330 1/2 North			Potentiometer						
Woodlands-		Houston North	Wayside,			Cup			General,			
Sugar Land	482010046		Houston	Wind	SPM	Anemometer	Continuous	Suburban	Background	Neighborhood	29.82809	-95.28410
Houston-The		Houston							Max Precursor			
Woodlands-		Southwest	5617 Westward		Near Road,	Chemilumine-		Urban and	Emissions			
Sugar Land	482011066		Avenue, Houston	NO/NO2/NOx	SLAMS	scence	Continuous	Center City	Impact	Microscale	29.72160	-95.49265
Houston-The		Houston		<b>T</b>		A		the second	Max Precursor			
Woodlands-	100011000	Southwest	5617 Westward	Temperature	CDM	Aspirated	Carl	Urban and	Emissions	N4:	20 724 66	05 40045
Sugar Land	482011066		Avenue, Houston	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	29.72160	-95.49265
Houston-The Woodlands-		Houston Southwest	5617 Westward			Potentiometer		Urban and	Max Precursor			
	492011000			Wind	SPM	Cup	Continuous	Urban and	Emissions	Microcolo	20 72160	05 40265
Sugar Land Houston-The	482011066	пеемау	Avenue, Houston	wina	SPIPI	Anemometer	Continuous	Center City	Impact	Microscale	29.72160	-95.49265
Woodlands-		Houston	3333 1/2 Hwy 6						Population			
Sugar Land	482010066	Westhollow	South, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.72333	-95.63583
Houston-The	402010000	W CSCHOHOW		05	JLANJ	ov motometric	continuous	Suburball	Exposure	Neighborhood	23.72555	32.02202
Woodlands-		Houston	3333 1/2 Hwy 6			Beta			Population			
Sugar Land	482010066	Westhollow	South, Houston	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Exposure	Neighborhood	29.72333	-95.63583
Sugar Luna	102010000			(Deta)	5111		Sontinuous	Suburbur	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lightonhood	25172555	55105505

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The								•	•			
Woodlands-		Houston	3333 1/2 Hwy 6	Temperature		Aspirated			Population			
Sugar Land	482010066	Westhollow	South, Houston	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	29.72333	-95.63583
Houston-The						Potentiometer						
Woodlands-		Houston	3333 1/2 Hwy 6			Cup			Population			
Sugar Land	482010066	Westhollow	South, Houston	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	29.72333	-95.63583
Houston-The			La Porte Airport,									
Woodlands-		La Porte Airport	2434 Buchanan		PAMS,				General,			
Sugar Land	482011043	C243	Street, La Porte	Precipitation	SLAMS	Rain Gauge	Continuous	Suburban	Background	Neighborhood	29.67200	-95.06470
Houston-The			La Porte Airport,									
Woodlands-		•	2434 Buchanan						Regional			
Sugar Land	482011043	C243	Street, La Porte	Radar Profiler	SPM	Radar Profiler	Continuous	Suburban	Transport	Regional Scale	29.67200	-95.06470
Houston-The			La Porte Airport,	<b>-</b> .	54446							
Woodlands-		•	2434 Buchanan	Temperature	PAMS,	Aspirated	<b>.</b>		General,			
Sugar Land	482011043	C243	Street, La Porte	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Background	Neighborhood	29.67200	-95.06470
Houston-The			La Porte Airport,		DAMO	Potentiometer			<b>A</b>			
Woodlands-		•	2434 Buchanan		PAMS,	Cup	<b>a</b>		General,		~~ ~~~~~	
Sugar Land	482011043	C243	Street, La Porte	Wind	SLAMS	Anemometer	Continuous	Suburban	Background	Neighborhood	29.67200	-95.06470
Houston The									Demulation			
Houston-The			109B Brazoria			Chamilton			Population	Middle Ceele		
Woodlands-	400004046		Hwy 332 West,		0.000	Chemilumine-	<b>A</b> 11		Exposure;	Middle Scale,	20.04276	05 47005
Sugar Land	480391016	Lake Jackson	Lake Jackson	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Source Oriented	Neighborhood	29.04376	-95.47295
Houston-The			109B Brazoria						Population			
Woodlands-			Hwy 332 West,						Exposure;			
	490201016	Laka Jackson	•	03	CLAME	UV Dhotomotric	Continuous	Suburban	• •	Naighborhood	20 04276	05 47205
Sugar Land Houston-The	480391016	Lake Jackson	Lake Jackson 109B Brazoria	03	SLAMS	UV Photometric	Continuous	Suburban	Source Oriented	Neighborhood	29.04376	-95.47295
Woodlands-			Hwy 332 West,	Solar					Highest			
Sugar Land	490301016	Lake Jackson	Lake Jackson	Radiation	SPM	Photovoltaic	Continuous	Suburban	Concentration	Middle Scale	29.04376	-95.47295
Houston-The	480391010	Lake Jackson	109B Brazoria	Raulation	SFM	FIIOLOVOILAIC	Continuous	Suburban	Concentration	Midule Scale	29.04370	-95.47295
Woodlands-			Hwy 332 West,	Temperature		Aspirated			Highest			
Sugar Land	480301016	Lake Jackson	Lake Jackson	(Outdoor)	SPM	Thermister	Continuous	Suburban	Concentration	Middle Scale	29.04376	-95.47295
Houston-The	400391010	Lake Jackson	109B Brazoria	(Outdoor)	JEIN	Potentiometer	Continuous	Suburban	concentration		29.04370	-95.47295
Woodlands-			Hwy 332 West,			Cup			Highest			
Sugar Land	480391016	Lake Jackson	Lake Jackson	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Middle Scale	29.04376	-95.47295
Houston-The	400551010	Lake Jackson	Eure Juckson	WING	5114	Anemonicter	Continuous	Suburban	concentration	Fildule Seale	25.04570	55.47255
Woodlands-			4401 1/2 Lang			Chemilumine-			Population	Middle Scale,		
Sugar Land	482010047	Lang	Rd, Houston	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Urban Scale	29.83417	-95.48917
Houston-The	102010017	Lang	nay nouscon	110/1102/110/	001110	Secree	Continuous	Suburban	Exposure	orban ocale	25.05117	55.10517
Woodlands-			4401 1/2 Lang						Population			
Sugar Land	482010047	Lang	Rd, Houston	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	29.83417	-95.48917
Houston-The			.,						P		10.00.11/	500517
Woodlands-			4401 1/2 Lang			HiVol	24 Hours;		Population			
Sugar Land	482010047	Lang	Rd, Houston	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Suburban	Exposure	Neighborhood	29.83417	-95.48917
2			4364			2.3.	_, • • • • • , •	2.300.00.1				500517
Houston-The			Independence									
Woodlands-		Lynchburg	Parkway South,			Chemilumine-				Middle Scale,		
Sugar Land	482011015	, 5	Baytown	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Source Oriented	,	29,75889	-95.07944
	.02011015		,	,			23					55107511

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
CDSA	Indiliber		4364	Туре			Schedule	Setting	Objective			
Houston-The			Independence									
Woodlands-		Lynchburg	Parkway South,									
Sugar Land	482011015	Ferry	Baytown	03	SLAMS	UV Photometric	Continuous	Suburban	Source Oriented	Middle Scale	29.75889	-95.07944
Houston-The			4364 Independence									
Woodlands-		Lynchburg	Parkway South,	Solar					Highest			
Sugar Land	482011015	, 5	Bavtown	Radiation	SPM	Photovoltaic	Continuous	Suburban	Concentration	Neighborhood	29,75889	-95.07944
Bugur Luna	102011015	reny	4364	Radiation	0111	Thotovoltaic	continuous	Suburbur	concentration	Heighborhood	2517 5005	55107511
Houston-The			Independence									
Woodlands-		Lynchburg	Parkway South,	Temperature		Aspirated			Highest			
Sugar Land	482011015	Ferry	Baytown	(Outdoor)	SPM	Thermister	Continuous	Suburban	Concentration	Neighborhood	29.75889	-95.07944
Houston-The			4364 Indonondonco			Potentiometer						
Woodlands-		Lynchburg	Independence Parkway South,			Cup			Highest			
Sugar Land	482011015	, 5	Baytown	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Neighborhood	29.75889	-95.07944
Houston-The	102011010	,	24,00111		0		Continuouo	Cabarban	Concentration	neignoon	2511 0005	50107511
Woodlands-		Manvel Croix	4503 Croix Pkwy,			Chemilumine-			Population			
Sugar Land	480391004	Park	Manvel	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Urban Scale	29.52044	-95.39251
Houston-The		Manual Cusic	4E02 Carlin Diam						Demulation			
Woodlands- Sugar Land	480391004	Manvel Croix	4503 Croix Pkwy, Manvel	03	SLAMS	UV Photometric	Continuous	Suburban	Population Exposure	Urban Scale	29.52044	-95.39251
Houston-The	460391004	Paik	Mariver	03	SLAM5	ov Photometric	Continuous	Suburban	Lxposure	UIDall Scale	29.52044	-95.59251
Woodlands-		Manvel Croix	4503 Croix Pkwy,	Temperature		Aspirated			Population			
Sugar Land	480391004	Park	Manvel	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Neighborhood	29.52044	-95.39251
Houston-The						Potentiometer						
Woodlands-		Manvel Croix	4503 Croix Pkwy,		0014	Cup	<b>A</b> 11	<u>.</u>	Population			
Sugar Land Houston-The	480391004	Park	Manvel	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	29.52044	-95.39251
Woodlands-		Northwest	16822 Kitzman,									
Sugar Land	482010029	Harris County	Tomball	Dew Point	SPM	Derived at site	Continuous	Rural	Source Oriented	Microscale	30.03952	-95.67395
					-				Extreme			
									Downwind;			
Lieveter The									Population			
Houston-The Woodlands-		Northwest	16822 Kitzman,		PAMS,	Chemilumine-			Exposure; Upwind			
Sugar Land	482010020	Harris County	Tomball	NO/NO2/NOx	,	scence	Continuous	Rural	Background	Urban Scale	30.03952	-95.67395
Sugar Lanu	402010029	Tiarris County	Tombali	10/102/102	SLAMS	scence	Continuous	Kurai	Extreme	Orban Scale	50.05952	-95.07595
									Downwind;			
									Population			
Houston-The									Exposure;			
Woodlands-	402010020	Northwest	16822 Kitzman,	0.2	PAMS,		C. I.	D I	Upwind		20.02052	05 67005
Sugar Land	482010029	Harris County	Tomball	03	SLAMS	UV Photometric	Continuous	Rural	Background Extreme	Urban Scale	30.03952	-95.67395
Houston-The									Downwind;			
Woodlands-		Northwest	16822 Kitzman,	Relative	PAMS,	Humidity			Upwind			
Sugar Land	482010029	Harris County	Tomball	Humidity	SLAMS	Sensor	Continuous	Rural	Background	Urban Scale	30.03952	-95.67395
<u> </u>		· · ·		· · ·								

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Houston-The									Extreme Downwind;			
Woodlands-		Northwest	16822 Kitzman,	Solar	PAMS,				Upwind			
Sugar Land	482010029	Harris County	Tomball	Radiation	SLAMS	Photovoltaic	Continuous	Rural	Background	Urban Scale	30.03952	-95.67395
Houston-The									Extreme Downwind;			
Woodlands-		Northwest	16822 Kitzman,	Temperature	PAMS,	Aspirated			Upwind			
Sugar Land	482010029	Harris County	Tomball	(Outdoor)	SLAMS	Thermister	Continuous	Rural	Background	Urban Scale	30.03952	-95.67395
		,		. ,					Extreme			
Houston-The		Nextborrest	10000 1/1		DAMO	Potentiometer			Downwind;			
Woodlands- Sugar Land	492010020	Northwest Harris County	16822 Kitzman, Tomball	Wind	PAMS, SLAMS	Cup Anemometer	Continuous	Rural	Upwind Background	Urban Scale	30.03952	-95.67395
Houston-The	482010029		Tombali	WING	SLAMS	Barometric	Continuous	Kurai	Dackground	Urban Scale	50.05952	-93.07393
Woodlands-			7421 Park Place	Barometric		pressure		Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	Pressure	SPM	transducer	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-			7421 Park Place					Urban and	Canaral			
Sugar Land	482010416	Park Place	Blvd, Houston	Dew Point	SPM	Derived at site	Continuous	Center City	General, Background	Neighborhood	29.68639	-95.29472
Houston-The	402010410		Diva, nouscon	Dewronne	5114	Derived at site	continuous	center eity	Dackground	Neighbornood	29.00039	55.25472
Woodlands-			7421 Park Place			Chemilumine-		Urban and	Population			
Sugar Land	482010416	Park Place	Blvd, Houston	NO/NO2/NOx	SPM	scence	Continuous	Center City	Exposure	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-			7421 Park Place					Urban and	Population			
Sugar Land	482010416	Park Place	Blvd, Houston	03	SPM	UV Photometric	Continuous	Center City	Exposure	Neighborhood	29.68639	-95.29472
Houston-The	102010110		Birdy Houston	00	5111	ovinotometric	continuous	center eity	Exposure	Neighbornood	29.00039	55.25172
Woodlands-			7421 Park Place					Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	Precipitation	SPM	Rain Gauge	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-			7421 Park Place	Relative		Humidity		Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	Humidity	SPM	Sensor	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The	102010110		2.1.4/ 1.040001		0	00.1001	Continuodo	conten enty	Duonground	neighbeineed	231000033	55125172
Woodlands-			7421 Park Place			Pulsed		Urban and	Population			
Sugar Land	482010416	Park Place	Blvd, Houston	S02	SPM	Fluorescence	Continuous	Center City	Exposure	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-			7421 Park Place	Solar				Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	Radiation	SPM	Photovoltaic	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The			,									
Woodlands-			7421 Park Place	Temperature		Aspirated		Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	(Outdoor)	SPM	Thermister	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-			7421 Park Place					Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	UV Radiation	SPM	Photovoltaic	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The			,		2	Potentiometer	50.1.1.1.0.00	Series only				JUL2 112
Woodlands-			7421 Park Place			Cup		Urban and	General,			
Sugar Land	482010416	Park Place	Blvd, Houston	Wind	SPM	Anemometer	Continuous	Center City	Background	Neighborhood	29.68639	-95.29472
Houston-The Woodlands-		Seabrook	4522 Park Rd,			Chemilumine-			Population	Middle Scale,		
Sugar Land	482011050	) Friendship Park		NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Population Exposure	Neighborhood	29.58305	-95.01554
Sugar Luna	102011030	i nendomp i dik	CCUDIOOK	110/1102/1107	00110	Jeenee	continuous	Cabarbar	Exposure	Heighborhood	29.30303	

Texas MSA -	AQS Site		Address -	Sampler			Operating	Location	Monitoring			
	Number	Site Name	Location	Туре	Network	Methods	Schedule	Setting	Objective	Spatial Scale	Latitude	Longitude
Houston-The			1		•	l	•		I		1	l.
Woodlands-		Seabrook	4522 Park Rd,						Population			
Sugar Land	482011050	Friendship Park	Seabrook	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	29.58305	-95.01554
Houston-The		Cashuada		PM2.5		тгом			11:			
Woodlands- Sugar Land	492011050	Seabrook Friendship Park	4522 Park Rd,	(TEOM) <sup>N</sup>	SPM	TEOM Gravimetric	Continuous	Suburban	Highest Concentration	Middle Scale	29.58305	-95.01554
Houston-The	462011050	Filenusiip Park	Seabiook		58191	Gravimetric	Continuous	Suburban	Concentration	Milule Scale	29.56505	-95.01554
Woodlands-		Seabrook	4522 Park Rd,	Solar					Highest			
Sugar Land	482011050	Friendship Park		Radiation	SPM	Photovoltaic	Continuous	Suburban	Concentration	Middle Scale	29.58305	-95.01554
Houston-The		·										
Woodlands-		Seabrook	4522 Park Rd,	Temperature		Aspirated			Highest			
Sugar Land	482011050	Friendship Park	Seabrook	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Suburban	Concentration	Middle Scale	29.58305	-95.01554
Houston-The Woodlands-		Seabrook	4522 Park Rd,			Cup			Highest			
Sugar Land	482011050	Friendship Park	,	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Middle Scale	29.58305	-95.01554
Houston-The	402011030	Thendonip Funk	1850 Hawkins	Willa	5111	Anemoniecei	continuous	Suburbur	concentration	Thunc Scale	23.30303	55.01554
Woodlands-		Smith Point	Camp Rd,	Temperature		Aspirated						
Sugar Land	480710013	Hawkins Camp	Anahuac	(Outdoor)	SPM	Thermister	Continuous	Suburban	Source Oriented	Neighborhood	29.54624	-94.78697
Houston-The			1850 Hawkins			Potentiometer						
Woodlands-	400710012	Smith Point	Camp Rd,	M/in al	CDM	Cup	Continuous	Culture	Course Onionstad	Naiahhauhaad	20 54624	04 70007
Sugar Land Houston-The	480/10013	Hawkins Camp	Ananuac 2516 Texas	Wind	SPM	Anemometer	Continuous	Suburban	Source Oriented	Neighbornood	29.54624	-94.78697
Woodlands-		Texas City Fire				HiVol	24 Hours;	Urban and	Highest			
Sugar Land	481670004	•	City	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Center City	Concentration	Neighborhood	29.38444	-94.93083
								,				
Killeen-Temple-		,	1605 Stone Tree			Chemilumine-		Urban and	General,			
Fort Hood	480271047	Field	Drive, Killeen	NO/NO2/NOx	SPM	scence	Continuous	Center City	Background	Urban Scale	31.08800	-97.67973
Killeen-Temple-		Killoon Skylork	1605 Stone Tree					Urban and	Dopulation			
Fort Hood	480271047	,	Drive, Killeen	03	SLAMS	UV Photometric	Continuous	Center City	Population Exposure	Urban Scale	31.08800	-97.67973
TOTETHOOD	4002/104/	Tield	Drive, Kineen	05	SLANS	ovinotometre	Continuous	center city	Exposure	orban Scale	51.00000	-97.07975
Killeen-Temple-		Killeen Skylark	1605 Stone Tree	Temperature		Aspirated		Urban and	Population			
Fort Hood	480271047	Field	Drive, Killeen	(Outdoor)	SPM	Thermister	Continuous	Center City	Exposure	Urban Scale	31.08800	-97.67973
						Potentiometer						
Killeen-Temple-	400074047		1605 Stone Tree		60M	Cup	<b>A</b> 11	Urban and	Population		24 22222	07 67070
Fort Hood Killeen-Temple-	480271047	Field	Drive, Killeen 8406 Georgia	Wind	SPM	Anemometer	Continuous	Center City	Exposure Population	Urban Scale	31.08800	-97.67973
Fort Hood	480271045	Temple Georgia	5	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	31.12242	-97.43105
Killeen-Temple-	400271045	Temple Georgia	8406 Georgia	05	JLANS	Beta	continuous	Suburban	Population	orban Scale	51.12272	57.45105
Fort Hood	480271045	Temple Georgia	Avenue, Temple	PM2.5 (Beta)	SPM	Attenuation	Continuous	Suburban	Exposure	Urban Scale	31.12242	-97.43105
Killeen-Temple-			8406 Georgia	Temperature		Aspirated			General,			
Fort Hood	480271045	Temple Georgia	Avenue, Temple	(Outdoor)	SPM	Thermister	Continuous	Suburban	Background	Neighborhood	31.12242	-97.43105
Killoon Terral			9406 Commin			Potentiometer			Canaral			
Killeen-Temple-	490271045	Tomple Coorsis	8406 Georgia	Wind	SPM	Cup	Continuous	Cuburban	General, Background	Noighborbood	21 12242	07 42105
Fort Hood	460271045	remple Georgia	Avenue, Temple 20420 Park	winu	5411	Anemometer	Continuous	Suburball	Background	Neighborhood	31.12242	-97.43105
		National	Road, Corpus			Beta			Regional			
Kingsville*	482730314		Christi	PM2.5 (Beta)	SPM	Attenuation	Continuous	Rural	Transport	Regional Scale	27.42698	-97.29869
				(					•			

Texas MSA -	AQS Site	Site Name	Address -	Sampler	Network	Methods	Operating	Location	Monitoring	Spatial Scale	Latitude I	Longitude
CBSA	Number		Location	Туре	Network	Methous	Schedule	Setting	Objective	Spatial Scale		Longitude
			20420 Park									
		National		Temperature		Aspirated			Regional			
Kingsville*	482730314	Seashore	Christi	(Outdoor)	SPM	Thermister	Continuous	Rural	Transport	Regional Scale	27.42698	-97.29869
		National	20420 Park			Potentiometer			Designal			
17	400700014	National	Road, Corpus		CDM	Cup	C. III	Dural	Regional	Destinations in Carala	27 42600	07 20060
Kingsville*	482730314	Seasnore	Christi	Wind	SPM Border	Anemometer	Continuous	Rural	Transport	Regional Scale	27.42698	-97.29869
			700 Zaragosa St,		Grant,	HiVol	24 Hours;	Urban and	Highest			
Laredo	484700017	Laredo Bridge	Laredo	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Center City	Concentration	Microscale	27.50183	-99.50298
Lareuo	404790017	Lareut briuge	Larcao	Speciated	SLAND	Gravimetric	1/0 Days	Center City	concentration	Microscale	27.30103	-99.30290
			700 Zaragosa St,		Border	Canister GC-	24 Hours;	Urban and	Highest			
Laredo	484790017	Laredo Bridge	Laredo	(Canister)	Grant, SPM		1/6 Days	Center City	Concentration	Neighborhood	27.50183	-99.50298
	101790017	j=		(,	Border		_, , -				27100100	55.00250
			700 Zaragosa St,	Temperature	Grant,	Aspirated		Urban and	Population			
Laredo	484790017	Laredo Bridge	Laredo	(Outdoor)	SLAMS	Thermister	Continuous	Center City	Exposure	Neighborhood	27.50183	-99.50298
					Border	Potentiometer						
			700 Zaragosa St,		Grant,	Cup		Urban and	Population			
Laredo	484790017	Laredo Bridge	Laredo	Wind	SLAMS	Anemometer	Continuous	Center City	Exposure	Neighborhood	27.50183	-99.50298
			2020.1/14		Border				De la la la c			
1	40.470001.0	Laura da Afrida cont	2020 Vidaurri	<u> </u>	Grant,	Gas Filter	C. I.	C. I. I.	Population	N	27 51746	00 51533
Laredo	484790016	Laredo Vidaurri	Ave, Laredo	CO	SLAMS Border	Correlation	Continuous	Suburban	Exposure	Neighborhood	27.51746	-99.51522
			2020 Vidaurri		Grant,				Population			
Laredo	484790016	Laredo Vidaurri		03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	27.51746	-99.51522
Larcao	1017 50010		/wey Eureub	05	Border	ovinotometre	continuous	Suburban	Exposure	Neighborhood	27.51710	55.51522
			2020 Vidaurri		Grant,	HiVol	24 Hours;		Population			
Laredo	484790016	Laredo Vidaurri	Ave, Laredo	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Suburban	Exposure	Neighborhood	27.51746	-99.51522
					Border							
			2020 Vidaurri	Temperature	Grant,	Aspirated			Population			
Laredo	484790016	Laredo Vidaurri	Ave, Laredo	(Outdoor)	SLAMS	Thermister	Continuous	Suburban	Exposure	Neighborhood	27.51746	-99.51522
			2020.1/14		Daudau	Potentiometer			De la la la c			
Larada	404700016	Lanada Vidaumi	2020 Vidaurri	Mind	Border	Cup	Continuous	Cuburban	Population	Naiabharbaad	27 51746	00 51533
Laredo	484790016	Laredo Vidaurri	Ave, Laredo Mines Road	Wind	Grant, SPM	Anemometer	Continuous	Suburban	Exposure	Neighborhood	27.51746	-99.51522
		World Trade	11601 FM 1472,			Beta						
Laredo	484790313		Laredo	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Suburban	Source Oriented	Microscale	27,59944	-99.53333
Larcao	101790919	Bridge	Laicao		001110	recentuation	continuous	Suburburi	bource offented	The obcare	271333311	551555555
			Gregg Co Airport									
			near Longview,			Chemilumine-			Population			
Longview	481830001	Longview	Longview	NO/NO2/NOx	SPM	scence	Continuous	Rural	Exposure	Neighborhood	32.37870	-94.71181
			Gregg Co Airport									
Lanavia	401020001	Lananda	near Longview,	02	CLAMC		Contin	Dunal	Population	Natables besid	22 27070	04 71101
Longview	481830001	Longview	Longview	03	SLAMS	UV Photometric	Continuous	Rural	Exposure	Neighborhood	32.37870	-94.71181
			Gregg Co Airport									
			near Longview,						General,			
Longview	481830001	Longview	Longview	Precipitation	SPM	Rain Gauge	Continuous	Rural	Background	Neighborhood	32.37870	-94.71181
	.01000001										52.57070	

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			Gregg Co Airport						General,			
			near Longview,			Pulsed			Background; Population			
Longview	481830001	l Longview	Longview	S02	SLAMS	Fluorescence	Continuous	Rural	Exposure	Neighborhood	32.37870	-94.71181
20.1911011		2 20.1911011		001	010		Continuouo			neighbeineed	02107070	5 117 1101
			Gregg Co Airport									
			near Longview,	Solar					General,			
Longview	481830001		Longview	Radiation	SPM	Photovoltaic	Continuous	Rural	Background	Neighborhood	32.37870	-94.71181
Longviou***	492021070	Hallsville Red 9 Oak Road	9206 Red Oak Road, Hallsville	SO2	SLAMS	Pulsed Fluorescence	Continuous	Rural	Source Oriented	Naighborhood	32.47023	-94.48160
Longview***	462031075	Hallsville Red	9206 Red Oak	Temperature	SLAMS	Aspirated	Continuous	Kuldi	Source Oriented General,	Neighborhood	32.47023	-94.40100
Longview***	482031079	9 Oak Road	Road, Hallsville	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	32.47023	-94.48160
			,	(		Potentiometer			<u> </u>			
		Hallsville Red	9206 Red Oak			Cup			General,			
Longview***	482031079	9 Oak Road	Road, Hallsville	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	32.47023	-94.48160
			Hwy 134 & Spur			Charreiluneirea			Comound	Designal Casta		
Longview***	482030002	Varnack	449, Not In A City		CLAME	Chemilumine-	Continuous	Rural	General, Background	Regional Scale, Urban Scale	22 66000	04 16747
Longview	482030002		Hwy 134 & Spur	NO/NO2/NOx	SLAMS	scence	Continuous	Rurai	Dackyrounu	Urban Scale	32.66900	-94.16747
			449, Not In A						General,			
Longview***	482030002	2 Karnack	City	03	SLAMS	UV Photometric	Continuous	Rural	Background	Regional Scale	32.66900	-94.16747
			Hwy 134 & Spur									
			449, Not In A			Sequential FRM			General,			
Longview***	482030002	2 Karnack	City	PM2.5 (FRM)	SPM	Gravimetric	1/6 Days 24 Hours;	Rural	Background	Regional Scale	32.66900	-94.16747
			Hwy 134 & Spur		Csn	Carbons,	1/6 Days,		General, Background;			
			449, Not In A	PM2.5		Elements, Ions,			Regional			
Longview***	482030002	2 Karnack	City	(Speciation)	al, SLAMS	SASS/URG	1/3 Days	Rural	Transport	Regional Scale	32.66900	-94.16747
20.1911011			Hwy 134 & Spur		ui, 02	0,000,0110	1,0 20,0		Transport	rtegional ocaro	02.00000	5
			449, Not In A	PM2.5		TEOM			General,			
Longview***	482030002	2 Karnack	City	(TEOM) <sup>N</sup>	SPM	Gravimetric	Continuous	Rural	Background	Regional Scale	32.66900	-94.16747
			Hwy 134 & Spur	Cala								
1.000000000	482030002	Kamaak	449, Not In A Citv	Solar Radiation	SPM	Dhatavaltaia	Continuous	Rural	General, Background	Lunhan Caala	22 66000	-94.16747
Longview***	462030002		Hwy 134 & Spur	Raulation	58191	Photovoltaic	Continuous	Kuldi	Dackground	Urban Scale	32.66900	-94.10747
			449, Not In A	Temperature		Aspirated			General,			
Longview***	482030002	2 Karnack	City	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Urban Scale	32.66900	-94.16747
			Hwy 134 & Spur	. ,								
			449, Not In A			Visibility			General,			
Longview***	482030002	2 Karnack	City	Visibility	SPM	Sensor	Continuous	Rural	Background	Urban Scale	32.66900	-94.16747
			Hwy 134 & Spur			Potentiometer			Conoral			
Longview***	482030002	Karnack	449, Not In A City	Wind	SPM	Cup Anemometer	Continuous	Rural	General, Background	Urban Scale	32.66900	-94.16747
Longview	+02030002		City	wind	JEPT	Allemonieter	Continuous	Nulai	Dackyrounu	orban Scale	52.00500	-94.10/4/
			Gregg Co Airport									
			near Longview,	Temperature		Aspirated			General,			
Longview***	481830001	L Longview	Longview	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	32.37870	-94.71181

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
			Gregg Co Airport			Potentiometer						
			near Longview,			Cup			General,			
Longview***	481830001	Longview	Longview	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	32.37870	-94.71181
		Tatum CR	9515 County									
		2181d Martin	Road 2181d,			Pulsed						
Longview***	484011082		Tatum	S02	SPM	Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	32.27793	-94.57085
		Tatum CR	9515 County									
		2181d Martin	Road 2181d,	Temperature		Aspirated			General,			
Longview***	484011082	Creek Lake	Tatum	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	32.27793	-94.57085
		Tatum CR	9515 County			Potentiometer			Conservat			
	404011000	2181d Martin	Road 2181d,		CDM	Cup	C. III	Dural	General,		22 27702	04 57005
Longview***	484011082	Lubbock 12th	Tatum	Wind	SPM	Anemometer Beta	Continuous	Rural Urban and	Background Population	Neighborhood	32.27793	-94.57085
Lubbock	483031028		3901 East 12th Street, Lubbock	PM2.5 (Beta)	SPM	Attenuation	Continuous		Exposure	Urban Scale	33.58553	-101.78698
LUDDOCK	403031020	Lubbock 12th	3901 East 12th	Temperature	58191	Aspirated	Continuous	Urban and	General,		33.30333	-101.76096
Lubbock	483031028		Street, Lubbock	(Outdoor)	SPM	Thermister	Continuous	Center City	Background	Regional Scale	33.58553	-101.78698
LUDDOCK	405051020	Street	Street, Lubbock	(00000)	5111	Potentiometer	Continuous	center city	Dackground	Regional Scale	55.50555	101.70050
		Lubbock 12th	3901 East 12th			Cup		Urban and	General,			
Lubbock	483031028			Wind (3m)	SPM	Anemometer	Continuous	Center City	Background	Regional Scale	33.58553	-101.78698
				(2)								
McAllen-		Edinburg East	1491 East Freddy									
Edinburg-		Freddy	Gonzalez Drive,			Sequential FRM	24 Hours;	Urban and	Population			
Mission	482151046	Gonzalez Drive	Edinburg	PM2.5 (FRM)	SLAMS	Gravimetric	1/3 Days	Center City	Exposure	Regional Scale	26.28862	-98.15207
McAllen-		-	1491 East Freddy									
Edinburg-		Freddy		Temperature		Aspirated		Urban and	Population			
Mission	482151046	Gonzalez Drive	Edinburg	(Outdoor)	SPM	Thermister	Continuous	Center City	Exposure	Regional Scale	26.28862	-98.15207
MaAllan		Ediabuma East				Detertionster						
McAllen-			1491 East Freddy			Potentiometer		linhan and	Demulation			
Edinburg- Mission	402151046	Freddy	Gonzalez Drive,	Wind (2m)	SPM	Cup	Continuous	Urban and	Population	Decional Coolo		00 1 5 2 0 7
McAllen-	482151046	Gonzalez Drive	2300 North	Wind (3m)	SPM	Anemometer	Continuous	Center City	Exposure	Regional Scale	26.28862	-98.15207
Edinburg-			Glasscock,						Population			
Mission	482150043	Mission	Mission	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Neighborhood	26.22621	-98.29107
McAllen-	-021300 <del>1</del> 3	11331011	2300 North	05	SLANS		continuous	Suburban	LAPUSUIC	Reighborhood	20.22021	50.29107
Edinburg-			Glasscock,			HiVol	24 Hours;		Population			
Mission	482150043	Mission	Mission	PM10 (FRM)	SLAMS	Gravimetric	1/6 Days	Suburban	Exposure	Urban Scale	26.22621	-98.29107
McAllen-			2300 North				,, -					
Edinburg-			Glasscock,			Beta			Population			
Mission	482150043	Mission	Mission	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Suburban	Exposure	Urban Scale	26.22621	-98.29107
McAllen-			2300 North									
Edinburg-			Glasscock,	Solar					Population			
Mission	482150043	Mission	Mission	Radiation	SPM	Photovoltaic	Continuous	Suburban	Exposure	Microscale	26.22621	-98.29107
McAllen-			2300 North									
Edinburg-			Glasscock,	Temperature		Aspirated			Population			
Mission	482150043	Mission	Mission	(Outdoor)	SPM	Thermister	Continuous	Suburban	Exposure	Microscale	26.22621	-98.29107
McAllen-			2300 North			Potentiometer			D Ist			
Edinburg-	4004 500 10	Mississ	Glasscock,	\\/:	CDM	Cup	Contin	Culture	Population	Mississe		00 2010-
Mission	482150043	MISSION	Mission	Wind	SPM	Anemometer	Continuous	Suburban	Exposure	Microscale	26.22621	-98.29107

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Mount Pleasant*	484491078	Cookville FM 4855	385 CR 4855, Not In A City	S02	SLAMS	Pulsed Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	33.07520	-94.84740
Mount Pleasant*	484491078	Cookville FM 4855	385 CR 4855, Not In A City	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Rural	General, Background	Neighborhood	33.07520	-94.84740
Mount Pleasant*	484491078	Cookville FM 4855	385 CR 4855, Not In A City	Wind	SPM	Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	33.07520	-94.84740
none	480430101	Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	PM2.5 (Beta)	SPM	Beta Attenuation	Continuous	Rural	General, Background	Regional Scale	29.30255	-103.17791
none		Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous		General, Background	Microscale		-103.17791
none	480430101	Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	General, Background	Regional Scale	29.30255	-103.17791
none	481611084		488 FM 2570, Fairfield	SO2	SPM	Pulsed Fluorescence	Continuous	Rural	Source Oriented		31.79780	-96.10310
none	481611084		488 FM 2570, Fairfield	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	Source Oriented	Neighborhood	31.79780	-96.10310
none	481611084	Fairfield FM 2570 Ward Ranch	488 FM 2570, Fairfield	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	Source Oriented	Neighborhood	31.79780	-96.10310
none	482551070	Karnes County	1100B East Main Avenue, Karnes City	NO/NO2/NOx	SPM	Chemilumine- scence	Continuous	Rural	Max Precursor Emissions Impact; Upwind Background	Urban Scale	28.88044	-97.88807
none	482551070	Karnes County	1100B East Main Avenue, Karnes City	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	General, Background	Neighborhood	28.88044	-97.88807
none	482551070	Karnes County	1100B East Main Avenue, Karnes City	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	28.88044	-97.88807
Odessa	481351014	Odessa Gonzales	2700 Disney, Odessa	PM2.5 (Beta)	SPM	Beta Attenuation	Continuous	Suburban	Highest Concentration	Regional Scale	31.87026	-102.33475
Odessa	481351014	Odessa Gonzales	2700 Disney, Odessa	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Suburban	Population Exposure	Neighborhood	31.87026	-102.33475
Odessa	481351014	Odessa Gonzales	2700 Disney, Odessa	Wind	SPM	Cup Anemometer	Continuous	Suburban	Population Exposure	Neighborhood	31.87026	-102.33475

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
									Source Oriented;			
San Antonio-			14620 Laguna			Chemilumine-			Upwind			
New Braunfels	480290059	Calaveras Lake	Rd, San Antonio	NO/NO2/NOx	SLAMS	scence	Continuous	Rural	Background	Urban Scale	29.27538	-98.31169
									Source Oriented;			
San Antonio-			14620 Laguna						Upwind			
New Braunfels	480290059	Calaveras Lake	Rd, San Antonio	03	SLAMS	UV Photometric	Continuous	Rural	Background	Urban Scale	29.27538	-98.31169
									Population			
San Antonio-			14620 Laguna			Beta			Exposure;			
New Braunfels	480290059	Calaveras Lake	2	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Rural	Source Oriented	Urban Scale	29.27538	-98.31169
									Des latter			
San Antonio-			14620 Laguna			Pulsed			Population Exposure;			
New Braunfels	480290059	Calaveras Lake	2	S02	SLAMS	Fluorescence	Continuous	Rural	Source Oriented	Neighborhood	29.27538	-98.31169
San Antonio-			14620 Laguna	Temperature		Aspirated						
New Braunfels	480290059	Calaveras Lake	Rd, San Antonio	(Outdoor)	SPM	Thermister Potentiometer	Continuous	Rural	Source Oriented	Urban Scale	29.27538	-98.31169
San Antonio-			14620 Laguna			Cup						
New Braunfels	480290059	Calaveras Lake	-	Wind	SPM	Anemometer	Continuous	Rural	Source Oriented	Urban Scale	29.27538	-98.31169
San Antonio- New Braunfels	480290052	Camp Bullis	F Range (1000 Yd marker off Wilderness Trail), Near Wilderness Rd, San Antonio	NO/NO2/NOx	SPM	Chemilumine- scence	Continuous	Rural	Max Precursor Emissions Impact	Urban Scale	29.63206	-98.56494
San Antonio- New Braunfels	480290052	Camp Bullis	F Range (1000 Yd marker off Wilderness Trail), Near Wilderness Rd, San Antonio	03	SLAMS	UV Photometric	Continuous	Rural	Max Ozone Concentration; Population Exposure	Urban Scale	29.63206	-98.56494
San Antonio- New Braunfels	480290052	Camp Bullis	F Range (1000 Yd marker off Wilderness Trail), Near Wilderness Rd, San Antonio	Solar Radiation	SPM	Photovoltaic	Continuous	Rural	Highest Concentration	Urban Scale	29.63206	-98.56494
San Antonio- New Braunfels	480290052	Camp Bullis	F Range (1000 Yd marker off Wilderness Trail), Near Wilderness Rd, San Antonio	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	Highest Concentration	Urban Scale	29.63206	-98.56494

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
San Antonio- New Braunfels	480290052	Camp Bullis	F Range (1000 Yd marker off Wilderness Trail), Near Wilderness Rd, San Antonio	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Rural	Highest Concentration	Urban Scale	29.63206	-98.56494
San Antonio- New Braunfels	484931038	Floresville Hospital Boulevard	1404 Hospital Blvd, Floresville	NO/NO2/NOx	SPM	Chemilumine- scence	Continuous	Rural	Max Precursor Emissions Impact; Upwind Background	Urban Scale	29.13070	-98.14810
San Antonio- New Braunfels	484931038		1404 Hospital Blvd, Floresville	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	General, Background	Neighborhood	29.13070	-98.14810
San Antonio- New Braunfels San Antonio-	484931038	Floresville Hospital Boulevard Frank Wing	1404 Hospital Blvd, Floresville 401 South Frio	Wind	SPM	Potentiometer Cup Anemometer HiVol	Continuous 24 Hours;	Rural Urban and	General, Background Population	Neighborhood	29.13070	-98.14810
New Braunfels San Antonio-	480290060	5	911 Old Hwy 90 West, San	PM10 (FRM) PM2.5	SLAMS	Gravimetric 1405 TEOM	1/6 Days	Center City Urban and	Exposure	Middle Scale	29.42219	-98.50542
New Braunfels San Antonio-		Old Hwy 90 San Antonio Bulverde	Antonio 3843 Bulverde Parkway, San	(TEOM) <sup>№</sup>	SPM	Gravimetric HiVol	Continuous 24 Hours;	Center City	Exposure Population	Neighborhood	29.42394	-98.58051
New Braunfels	480291087	San Antonio Bulverde	Antonio 3843 Bulverde Parkway, San	PM10 (FRM) Temperature	SLAMS	Gravimetric Aspirated	1/6 Days	Suburban	Exposure Population	Neighborhood	29.63500	-98.41770
New Braunfels San Antonio- New Braunfels	480291087 480291087	San Antonio Bulverde	Antonio 3843 Bulverde Parkway, San Antonio	(Outdoor) Wind	SPM	Thermister Potentiometer Cup Anemometer	Continuous	Suburban Suburban	Exposure Population Exposure	Neighborhood Neighborhood	29.63500	-98.41770
San Antonio- New Braunfels		San Antonio Gardner Road	7145 Gardner Road, San Antonio	SO2	SLAMS	Pulsed Fluorescence	Continuous		Source Oriented	-	29.35291	-98.33281
San Antonio- New Braunfels	480291080	San Antonio Gardner Road	7145 Gardner Road, San Antonio	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Suburban	General, Background	Neighborhood	29.35291	-98.33281
San Antonio- New Braunfels	480291080	San Antonio Gardner Road	7145 Gardner Road, San Antonio	Wind (3m)	SPM	Potentiometer Cup Anemometer	Continuous	Suburban	General, Background Max Precursor	Neighborhood	29.35291	-98.33281
San Antonio- New Braunfels	480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	СО	Near Road, SLAMS	Gas Filter Correlation	Continuous	Urban and Center City	Emissions Impact Max Precursor	Microscale	29.52943	-98.39140
San Antonio- New Braunfels	480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	NO/NO2/NOx	Near Road, SLAMS	Chemilumine- scence	Continuous	Urban and Center City	Emissions Impact Max Precursor	Microscale	29.52943	-98.39140
San Antonio- New Braunfels	480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	PM2.5 (Beta)	Near Road, SLAMS	Beta Attenuation	Continuous	Urban and Center City	Emissions Impact	Microscale	29.52943	-98.39140

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
									Max Precursor			
San Antonio-		San Antonio	9904 IH 35 N,	Temperature		Aspirated		Urban and	Emissions			
New Braunfels	480291069	Interstate 35	San Antonio	(Outdoor)	SPM	Thermister	Continuous	Center City	Impact	Microscale	29.52943	-98.39140
Con Antonio		Con Antonio				Potentiometer		Linkan and	Max Precursor			
San Antonio-	400201000	San Antonio Interstate 35	9904 IH 35 N, San Antonio	M/ins al	SPM	Cup	Cantinuau	Urban and	Emissions	Missessels	20 52042	00 201 40
New Braunfels	480291069	Interstate 55	6655 Bluebird	Wind	SPM	Anemometer	Continuous	Center City	Impact	Microscale	29.52943	-98.39140
San Antonio-		San Antonio	Lane, San			Chemilumine-			Population			
New Braunfels	480290032		Antonio	NO/NO2/NOx	SLAMS	scence	Continuous	Suburban	Exposure	Neighborhood	29.51509	-98.62017
				,	020	000000	continuouo	Cabarban	Max Ozone	neignoonnoou	20101000	50102027
			6655 Bluebird						Concentration;			
San Antonio-		San Antonio	Lane, San						Population			
New Braunfels	480290032	Northwest	Antonio	03	SLAMS	UV Photometric	Continuous	Suburban	Exposure	Urban Scale	29.51509	-98.62017
			6655 Bluebird									
San Antonio-		San Antonio	Lane, San		~	Beta	<b>.</b>		Population			
New Braunfels	480290032	Northwest	Antonio	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Suburban	Exposure Population	Urban Scale	29.51509	-98.62017
			6655 Bluebird		QA				Exposure;			
San Antonio-		San Antonio	Lane, San		Collocated,	Sequential FRM	24 Hours		Quality			
New Braunfels	480290032		Antonio	PM2.5 (FRM)	SLAMS	Gravimetric	1/12 Days	Suburban	Assurance	Urban Scale	29.51509	-98.62017
Herr Braancis	100290032	Horanicot	6655 Bluebird		02/110	oravinicane	1,12 04,5	Suburban	7.650101100	orban ocure	29.91909	50.02017
San Antonio-		San Antonio	Lane, San	Temperature		Aspirated			Highest			
New Braunfels	480290032	Northwest	Antonio	(Outdoor)	SPM	Thermister	Continuous	Suburban	Concentration	Urban Scale	29.51509	-98.62017
			6655 Bluebird			Potentiometer						
San Antonio-		San Antonio	Lane, San			Cup	<b>_</b>		Highest			
New Braunfels	480290032	Northwest	Antonio	Wind	SPM	Anemometer	Continuous	Suburban	Concentration	Urban Scale	29.51509	-98.62017
			17534 North						Population			
San Antonio-		Von Ormy	State Highway			Beta			Exposure;			
New Braunfels	480131090	Highway 16	16, Not In A City	PM2.5 (Beta)	SPM	Attenuation	Continuous	Rural	Source Oriented	Microscale	29.16300	-98.58916
	100151090	riightidy 10	17534 North		5111	Acconduction	continuous	i tui ui		The obcare	25.10500	90.90910
San Antonio-		Von Ormy	State Highway	Temperature		Aspirated			General,			
New Braunfels	480131090	Highway 16	16, Not In A City	(Outdoor)	SPM	Thermister	Continuous	Rural	Background	Neighborhood	29.16300	-98.58916
			17534 North			Potentiometer						
San Antonio-		Von Ormy	State Highway			Cup			General,			
New Braunfels	480131090	Highway 16	16, Not In A City	Wind	SPM	Anemometer	Continuous	Rural	Background	Neighborhood	29.16300	-98.58916
		Toyarkana Now	2700 New Boston			Beta		Urban and	Population			
Texarkana	480371031		Rd, Texarkana	PM2.5 (Beta)	SLAMS	Attenuation	Continuous	Center City	Population Exposure	Urban Scale	33.43611	-94.07778
Texarkana	400571051	DOSCOT	Ru, Texarkana	rm2.5 (Deta)	SLAMS	Attenuation	Continuous	Center City	Lxposure	orban Scale	55.45011	-94.07770
		Texarkana New	2700 New Boston	Temperature		Aspirated		Urban and	Population			
Texarkana	480371031		Rd, Texarkana	(Outdoor)	SPM	Thermister	Continuous	Center City	Exposure	Urban Scale	33.43611	-94.07778
						Potentiometer						
			2700 New Boston			Cup		Urban and	Population			
Texarkana	480371031	Boston	Rd, Texarkana	Wind (3m)	SPM	Anemometer	Continuous	Center City	Exposure	Urban Scale	33.43611	-94.07778
		Tulan Alina I	14700 6			Chamiltonia			Company			
Tylor	494220007	Tyler Airport	14790 County		CDM	Chemilumine-	Continuous	Dural	General,	Urban Scale	22 24402	05 41575
Tyler	484230007	Reiocaleu	Road 1145, Tyler		SPIM	scence	Continuous	Ruidi	Background	Urban Scale	32.34403	-95.41575

### Appendix B: Ambient Air Monitoring Network Site List

Texas MSA - CBSA	AQS Site Number	Site Name	Address - Location	Sampler Type	Network	Methods	Operating Schedule	Location Setting	Monitoring Objective	Spatial Scale	Latitude	Longitude
Tyler	484230007	Tyler Airport ' Relocated	14790 County Road 1145, Tyler	03	SLAMS	UV Photometric	: Continuous	Rural	General, Background	Urban Scale	32.34403	-95.41575
Tyler	484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Precipitation	SPM	Rain Gauge	Continuous	Rural	General, Background	Neighborhood	32.34403	-95.41575
Tyler	484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Solar Radiation	SPM	Photovoltaic	Continuous	Rural	General, Background	Neighborhood	32.34403	-95.41575
Tyler	484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Temperature (Outdoor)	SPM	Aspirated Thermister Potentiometer	Continuous	Rural	General, Background	Neighborhood	32.34403	-95.41575
Tyler	484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Wind	SPM	Cup Anemometer	Continuous	Rural	General, Background	Neighborhood	32.34403	-95.41575
Victoria	484690003	8 Victoria	106 Mockingbird Lane, Victoria	03	SLAMS	UV Photometric	: Continuous	Urban and Center City	Population Exposure	Neighborhood	28.83621	-97.00553
Victoria	484690003	8 Victoria	106 Mockingbird Lane, Victoria	Solar Radiation	SPM	Photovoltaic	Continuous	Urban and Center City	Highest Concentration	Neighborhood	28.83621	-97.00553
Victoria	484690003	8 Victoria	106 Mockingbird Lane, Victoria	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Urban and Center City	Highest Concentration	Neighborhood	28.83621	-97.00553
Victoria	484690003	8 Victoria	106 Mockingbird Lane, Victoria	Wind	SPM	Potentiometer Cup Anemometer	Continuous	Urban and Center City	Highest Concentration	Neighborhood	28.83621	-97.00553
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	СО	SLAMS	Gas Filter Correlation	Continuous	Rural	Upwind Background	Urban Scale	31.65309	-97.07070
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	03	SLAMS	UV Photometric	: Continuous	Rural	Upwind Background	Regional Scale	31.65309	-97.07070
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	PM2.5 (TEOM) <sup>N</sup>	SPM	1405 TEOM Gravimetric	Continuous	Rural	Regional Transport	Regional Scale	31.65309	-97.07070
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	S02	SLAMS	Pulsed Fluorescence	Continuous	Rural	Upwind Background	Urban Scale	31.65309	-97.07070
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	Solar Radiation	SPM	Photovoltaic	Continuous	Rural	Regional Transport	Urban Scale	31.65309	-97.07070
Waco	483091037	' Waco Mazanec	4472 Mazanec Rd, Waco	Temperature (Outdoor)	SPM	Aspirated Thermister	Continuous	Rural	Regional Transport	Urban Scale	31.65309	-97.07070
Waco		' Waco Mazanec	4472 Mazanec	Wind	SPM	Potentiometer Cup Anemometer	Continuous		Regional Transport	Urban Scale	31.65309	-97.07070

#### Appendix B: Ambient Air Monitoring Network Site List

Symbol/Acronym	Description
*	Micropolitan Statistical Area
**	County is not a Metropolitan or Micropolitan Statistical Area
***	Marshall, Texas, is no longer a Micropolitan Statistical Area according to the United States Office of Management and Budget (OMB) and is currently designated as a part of the Longview MSA, AQS is pending updates to match the new OMB designation.
N	Monitor is not suitable for comparison against the annual $PM_{2.5}$ NAAQS as described in 40 Code of Federal Regulations Part 58.30
24-Hours; 1/12 Days	1 24-hour sample, once every twelfth day
24-Hours; 1/6 Days	1 24-hour sample, once every sixth day
24-Hours; 1/3 Days	1 24-hour sample, once every third day
24-Hours, 1/1 Days	1 24-hour sample, daily
24 Hours; Seasonal, 8 Hour; Seasonal	1 24-hour sample every sixth day seasonal, three eight-hour samples seasonal
24-Hour 1/6 Days Seasonal	1 24-hour sample, once every sixth day seasonal
AMNP	Annual Monitoring Network Plan
AQS	Air Quality System
AR	Arkansas
AutoGC	automated gas chromatograph
Ave	avenue
Blvd	boulevard
Border	The Border network designation is part of the SLAMS network for monitors within 100 kilometers of the United States/Mexico border.
CBSA	core based statistical area
CR	county road
CSN STN	Chemical Speciation Network Speciation Trends Network site (includes NCore monitors/requirements, samples analyzed by EPA contracted laboratory)
DNPH	dinitrophenylhydrazine
Dr	drive
E	east
СО	carbon monoxide
FM	farm-to-market
FRM	federal reference method
GC	gas chromatograph
GC-MS	gas chromatograph mass spectrometry
Hi-Vol	high-volume
Hi-Vol ICP-MS	high-volume with inductively coupled plasma by mass spectrometry
HPLC	high performance liquid chromatography
Hwy(s)	highway(s)
IH	Interstate Highway

#### Appendix B: Ambient Air Monitoring Network Site List

Symbol/Acronym	Description	
LBJ	Lyndon B Johnson	
Ln	lane	
Max	maximum	
MSA	metropolitan statistical area/micropolitan statistical area	
NCore	National Core Multipollutant Monitoring Stations	
Ν	north	
NE	northeast	
NO <sub>2</sub>	nitrogen dioxide	
NO/NO <sub>2</sub> /NO <sub>x</sub>	nitrogen oxides	
NO <sub>y</sub>	total reactive nitrogen	
O <sub>3</sub>	ozone	
OFW	Old Fort Worth	
PAMS	Photochemical Assessment Monitoring Stations	
Pkwy	parkway	
PM <sub>10</sub>	particulate matter of 10 micrometers or less in diameter	
PM <sub>10-2.5</sub>	coarse particulate matter	
PM <sub>2.5</sub>	particulate matter of 2.5 micrometers or less in diameter	
QA Collocated	quality assurance collocated monitor	
Rd	road	
S	south	
SE	southeast	
SETRPC	Southeast Texas Regional Planning Commission	
SLAMS	State or Local Air Monitoring Stations	
SO <sub>2</sub>	sulfur dioxide (one-hour and five-minute maximum monitors)	
SPM	special purpose monitor	
St	street	
TCEQ	Texas Commission on Environmental Quality	
ТЕОМ	tapered element oscillating microbalance (not NAAQS comparable)	
TSP (Pb)	total suspended particulate (lead)	
ТХ	Texas	
UTEP	University of Texas at El Paso	
UV	ultraviolet	
VOC	volatile organic compound	
W	west	
Wind	All wind sampler types produce data for parameters 61101, 61103, 61104, 61105, and 61106.	
Yd	yard	Γ

# Appendix C

### Population and Criteria Pollutant Monitor Requirements and County Summary by Metropolitan Statistical Area



#### Appendix C: Population and Criteria Pollutant Monitor Requirements and Count Summary by Metropolitan Statistical Area

Texas Metropolitan Statistical Area	2019 Population Estimate <sup>1</sup>	NO2 and NO/NOy Monitors Required <sup>2,3</sup>	NO <sub>2</sub> and NO/NO <sub>y</sub> Monitors Existing <sup>2,3</sup>	SO <sub>2</sub> Monitors Required <sup>2</sup>	SO <sub>2</sub> Monitors Existing <sup>2,4</sup>	Pb Monitors Required	Pb Monitors Existing	O₃ Monitors Required	O₃ Monitors Existing	CO Monitors Required <sup>2</sup>	CO Monitors Existing <sup>2,4</sup>	PM <sub>10</sub> Monitors Required <sup>4</sup>	PM <sub>10</sub> Monitors Existing <sup>4</sup>	PM <sub>2.5</sub> Monitors Required <sup>4</sup>	PM <sub>2.5</sub> Monitors Existing <sup>4</sup>
Dallas-Fort Worth-Arlington	7,573,136	6	17	2	3	3	3	4	18	2	2	2-4	2	7	13
Houston-The Woodlands-Sugar Land	7,066,141	6	20	3	4	0	0	4	21	2	3	2-4	5	8	16
San Antonio-New Braunfels	2,550,960	3	5	2	2	0	0	2	3	1	1	2-4	2	3	5
Austin-Round Rock-Georgetown	2,227,083	2	2	0	1	0	0	2	2	1	1	2-4	2	3	3
McAllen-Edinburg-Mission	868,707	0	0	0	0	0	0	1	1	0	0	1-2	1	2	2
El Paso	844,124	2	4	1	1	0	0	3	7	1	3	2-4	5	5	8
Killeen-Temple	460,303	0	1	0	0	0	0	2	2	0	0	0-1	0	0	1
Corpus Christi	429,024	0	0	0	3	0	0	2	2	0	0	0-1	1	0	4
Brownsville-Harlingen	423,163	0	0	0	0	0	0	1	1	0	0	0-1	0	0	2
Beaumont-Port Arthur	392,563	1	4	3	4	0	0	2	7	0	0	0-1	0	0	3
Lubbock	322,257	0	0	0	0	0	0	0	0	0	0	0-1	0	0	1
Longview (includes Marshall)	286,657	0	2	2	3	0	0	1	2	0	0	0-1	0	0	3
Laredo	276,652	0	0	0	0	0	0	0	1	0	1	0-1	2	0	1
Waco	273,920	0	0	0	1	0	0	1	1	0	1	0-1	0	0	1
Amarillo	265,053	0	0	1	2	0	0	0	0	0	0	0-1	0	0	1
College Station-Bryan	264,728	0	0	1	1	0	0	0	0	0	0	0-1	0	0	1
Tyler	232,751	0	1	0	0	0	0	1	1	0	0	0	0	0	0
Midland	182,603	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abilene	172,060	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odessa	166,223	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wichita Falls	151,254	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texarkana	148,761	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sherman-Denison	136,212	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Angelo	122,027	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Victoria	99,742	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Granbury <sup>5</sup>	61,643	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Eagle Pass <sup>5</sup>	58,722	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Corsicana <sup>5</sup>	50,113	0	1	1	2	0	0	0	1	0	0	0	0	0	1
Mount Pleasant <sup>5</sup>	45,844	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Big Spring <sup>5</sup>	36,664	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Kingsville <sup>5</sup>	31,084	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Borger <sup>5</sup>	20,938	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Karnes County <sup>6</sup>	NA	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Freestone County <sup>6</sup>	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Big Bend National Park <sup>6</sup>	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Totals <sup>3</sup>		20	58	19	31	3	3	27	72	7	12	11-32	20	28	71

<sup>1</sup>United States Census Bureau population estimates as of July 1, 2019, link below.

<sup>2</sup>Required and existing counts include NO<sub>v</sub>, high-sensitivity SO<sub>2</sub>, and high-sensitivity CO monitors.

<sup>3</sup>Required monitor pending deployment is discussed in the applicable AMNP section.

<sup>4</sup>Individual monitors may fulfill multiple requirements and are only counted once. Collocated quality control monitors are not included in totals.

<sup>5</sup>Area is classified as a micropolitan statistical area and not subject to SLAMS requirements.

<sup>6</sup>Area not classified as a metropolitan or micropolitan statistical area, county population data is not applicable.

Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)

CO - carbon monoxide

NA - not applicable

 $NO_2$  and  $NO/NO_{\rm y}$  - nitrogen dioxide, nitrogen oxide, and total reactive nitrogen compounds

Pb - lead

 $\ensuremath{\text{PM}_{10}}\xspace$  - particulate matter of 10 micrometers or less

PM<sub>2.5</sub> - particulate matter of 2.5 micrometers or less

O3 - ozone

 $SO_2$  - sulfur dioxide

## Appendix D

## Nitrogen Dioxide, Nitrogen Oxide, and Total Reactive Nitrogen Monitor Requirements and Count Summary



#### Appendix D: Nitrogen Dioxide, Nitrogen Oxide, and Total Reactive Nitrogen Monitor Requirements and Count Summary

Core Based Statistical Areas	2019 Population Estimate <sup>1</sup>	Required NO <sub>2</sub> Area-Wide Monitors	Required NO <sub>2</sub> RA-40 Monitors	Required NO <sub>2</sub> Near-Road Monitors	Required True NO <sub>2</sub> PAMS Monitors	Required NO/NO <sub>y</sub> PAMS/NCore Monitors	Total Required NO₂ and NO/NO <sub>y</sub> Monitors	Total Existing NO <sub>2</sub> and NO/NO <sub>y</sub> Monitors <sup>2</sup>
Dallas-Fort Worth-Arlington	7,573,136	1	1	2	1	1	6	17
Houston-The Woodlands-Sugar Land		1	1	2	1	1	6	20
San Antonio-New Braunfels	2,550,960	1	0	2	0	0	3	5
Austin-Round Rock-Georgetown	2,227,083	1	0	1	0	0	2	2
McAllen-Edinburg-Mission	868,707	0	0	0	0	0	0	0
El Paso	844,124	0	1	0	0	1	2	4
Killeen-Temple	460,303	0	0	0	0	0	0	1
Corpus Christi	429,024	0	0	0	0	0	0	0
Brownsville-Harlingen	423,163	0	0	0	0	0	0	0
Beaumont-Port Arthur	392,563	0	1	0	0	0	1	4
Lubbock	322,257	0	0	0	0	0	0	0
Longview	286,657	0	0	0	0	0	0	2
Laredo	276,652	0	0	0	0	0	0	0
Waco	273,920	0	0	0	0	0	0	0
Amarillo	265,053	0	0	0	0	0	0	0
College Station-Bryan	264,728	0	0	0	0	0	0	0
Tyler	232,751	0	0	0	0	0	0	1
Midland	182,603	0	0	0	0	0	0	0
Abilene	172,060	0	0	0	0	0	0	0
Odessa	166,223	0	0	0	0	0	0	0
Wichita Falls	151,254	0	0	0	0	0	0	0
Texarkana	148,761	0	0	0	0	0	0	0
Sherman-Denison	136,212	0	0	0	0	0	0	0
San Angelo	122,027	0	0	0	0	0	0	0
Victoria	99,742	0	0	0	0	0	0	0
Corsicana <sup>3</sup>	50,113	0	0	0	0	0	0	1
Karnes County <sup>4</sup>	NA	0	0	0	0	0	0	1
Totals		4	4	7	2	<b>3</b>	20	58

<sup>1</sup>United States Census Bureau population estimates as of July 1, 2019.

Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)

<sup>2</sup>Monitors may fulfill multiple monitoring requirements and are only counted once.

<sup>3</sup>Area is classified as a micropolitan statistical area and not subject to SLAMS requirements.

<sup>4</sup>Area not classified as a metropolitan or micropolitan statistical area, county population data is not applicable.

NCore - National Core Multipollutant Monitoring Stations

NO - nitrogen oxide

NO<sub>2</sub> - nitrogen dioxide

NO<sub>Y</sub> - total reactive nitrogen compounds

PAMS - Photochemical Assessment Monitoring Stations

RA-40 - Regional Administrator 40

## Appendix E

## Sulfur Dioxide Monitor Requirements and Count Summary



Core Based Statistical Area	County	2019 Population Estimates <sup>1</sup>	2019 Point Source (tpy)	2017 NEI Data (tpy)	2017 Point Source Data (tpy)	2017 NEI Non-Point Source Data with 2019 Point Source Data (tpy)	PWEI	Required SO <sub>2</sub> PWEI Monitors	Required SO <sub>2</sub> DRR Monitors	Required SO <sub>2</sub> NCore Monitors (high- sensitivity)	Total Required SO <sub>2</sub> Monitors	Existing Monitors <sup>2</sup>
Dallas-Fort Worth- Arlington		7,573,136				4,878	36,941	1	0	1	2	3
	Collin		5	104	6	103						
	Dallas		343	921	347	917						
	Denton		367	69	340	96						
	Ellis		2,343	1,659	1,561	2,441						
	Hunt		1		1	35						
	Johnson		78		78	105						
	Kaufman		61	122	91	93						
	Parker		120	256	234	142						
	Rockwall		0	2	0	9						
	Tarrant		24		23	911						
	Wise		13	24	9	28						
Houston-The Woodlands- Sugar Land		7,066,141				39,815	281,338	2	0	1	3	4
	Austin		4	42	32	13						
	Brazoria		600		585	696						
	Chambers		206	203	191	219						
	Fort Bend		28,888	37,802	37,736	28,954						
	Galveston		1,493	2,382	1,819	2,055						
	Harris		6,517	8,667	7,546	7,638						
	Liberty		10	39	15	35						
	Montgomery		30	-	23	187						
	Waller		2	17	1	18						
San Antonio-New Braunfels		2,550,960				11,921	30,411	1	1	0	2	2
	Atascosa	,,	9,179	9,316	8,779	9,715	,		_		_	_
	Bandera		0		0,775	2						
	Bexar		1,184		12,724	1,467						
	Comal		382	428	407	403						
	Guadalupe		119		109	155						
	Kendall		2		2	8						
	Medina		0		0	10						
	Wilson		0		109	162						

Core Based Statistical Area	County	2019 Population Estimates <sup>1</sup>	2019 Point Source (tpy)	2017 NEI Data (tpy)	2017 Point Source Data (tpy)	2017 NEI Non-Point Source Data with 2019 Point Source Data (tpy)	PWEI	Required SO2 PWEI Monitors	Required SO <sub>2</sub> DRR Monitors	Required SO <sub>2</sub> NCore Monitors (high- sensitivity)	Total Required SO <sub>2</sub> Monitors	Existing Monitors <sup>2</sup>
Austin-Round Rock-		2,227,083				2,089	4,652	0	0	0	0	1
Georgetown	Bastrop	2,227,003	140	305	292	153	1,052	0	0		0	-
	Caldwell		0+1	354	338	155						
	Hays		1,471	1,189	1,164	1,495						
	Travis		1,471	359	1,104							
	Williamson		4	57	5							
	WIIIIdHISOH		4	57	3	50						
McAllen-Edinburg-Mission		868,707				123	107	0	0	0	0	0
	Hidalgo		40	125	42	123						
El Paso	lindungo	844,124	10	125		304	256	0	0	1	1	1
	El Paso	044,124	105	390	282	293	230	0	0	L	L	T
			185									
	Hudspeth		/	10	7	10						
Killeen-Temple		460,303				104	48	0	0	0	0	0
	Bell		40	96	43							
	Coryell		0	7	0							
	Lampasas	100.001	0	4	0		200					
Corpus Christi		429,024				922	396	0	0	0	0	3
	Nueces San Patricio		<u>683</u> 45	828 82	689 28							
	Sall Patricio		45	02	20							
Brownsville-Harlingen	6	423,163		00		83	35	0	0	0	0	0
Beaumont-Port Arthur	Cameron	392,563	1	83	1	83 17,660	6,933	1	2	0	3	4
	Hardin	392,303		12	1	17,660	0,933	1	۷ ک	0	3	4
			12.002									
	Jefferson		12,862	14,002	13,849	13,016						
	Orange		4,592	6,340	6,300	4,632						
Lubbock		322,257				89	29	0	0	0	0	0
	Crosby		0	4	0	3						
	Lubbock		9	57	4	63						
	Lynn		0	23	0	23						

Core Based Statistical Area	County	2019 Population Estimates <sup>1</sup>	2019 Point Source (tpy)	2017 NEI Data (tpy)	2017 Point Source Data (tpy)	2017 NEI Non-Point Source Data with 2019 Point Source Data (tpy)	PWEI	Required SO <sub>2</sub> PWEI Monitors	Required SO <sub>2</sub> DRR Monitors	Required SO <sub>2</sub> NCore Monitors (high- sensitivity)	Total Required SO <sub>2</sub> Monitors	Existing Monitors <sup>2</sup>
Longview		286,657				50,089	14,358	1	1	0	2	3
	Gregg		20	68	23	65						
	Harrison		3,307	4,389	4,363	3,333						
	Rusk		46,661	36,599	36,578	46,682						
	Upshur		2	8	1	9						
Laredo		276,652				3,247	898	0	0	0	0	0
	Webb		471	584	390	664						
Waco		273,920				2,583	707	0	0	0	0	1
	Falls		0	7	0	7						
	McLennan		2,502	3,181	3,100	2,583						
Amarillo		265,053				10,897	2,888	0	1	0	1	2
	Armstrong		1	1	0	2						
	Carson		1	4	0	5						
	Potter		10,587	13,106	12,937	10,757						
	Randall		96	117	93	120						
	Oldham		0	14	0	14						
College Station-Bryan		264,728				9,455	2,503	0	1	0	1	1
	Brazos		14	57	12	58						
	Burleson		0	8	0	8						
	Robertson		9,382	11,254	11,248	9,389						
Tyler		232,751				463	108	0	0	0	0	0
	Smith		417	534	488	463						
Midland		182,603				1,381	252	0	0	0	0	0
	Martin		39	494	27	506						
	Midland		171	882	177	876						
Abilene		172,060				54	9	0	0	0	0	0
	Callahan		0	3	0	3						
	Jones		10	13	9	14						
	Taylor		0	37	0	37						

Core Based Statistical Area	County	2019 Population Estimates <sup>1</sup>	2019 Point Source (tpy)	2017 NEI Data (tpy)	2017 Point Source Data (tpy)	2017 NEI Non-Point Source Data with 2019 Point Source Data (tpy)	PWEI	Required SO2 PWEI Monitors	Required SO <sub>2</sub> DRR Monitors	Required SO <sub>2</sub> NCore Monitors (high- sensitivity)	Total Required SO <sub>2</sub> Monitors	Existing Monitors <sup>2</sup>
Odessa		166,223				1,382	230	0	0	0	0	0
	Ector		926	1,484	1,028	1,382						
Wichita Falls		151,254				712	108	0	0	0	0	0
	Archer		0		0	2						
	Clay		66	50	47	69						
	Wichita		510	606	526	591						
Texarkana		148,761				50	7	0	0	0	0	0
	Bowie		32	34	15	50						
Sherman-Denison		136,212				45	6	0	0	0	0	0
	Grayson		7	45	7	45						
San Angelo		122,027				269	33	0	0	0	0	0
	Irion		0		0	237						
	Sterling		1	10	1	10						
	Tom Green		2	21	2	22						
Victoria		99,742				11,520	1,149	0	0	0	0	0
	Goliad		11,270	12,365	12,202	11,433						
	Victoria		33	85	31	87						
Corsicana <sup>3</sup>		50,113				3,634	182	NA	1	0	1	2
	Navarro		3,614	3,812	3,792	3,634						
Mount Pleasant <sup>3</sup>		45,844				11,199	513	NA	1	0	1	1
	Titus		11,177	43,509	43,487	11,199						
Big Spring <sup>3</sup>		36,664				5,377	197	NA	1	0	1	1
	Howard		4,888	6,835	6,346	5,377						
Borger <sup>3</sup>		20,938				9,473	198	NA	1	0	1	1
	Hutchinson		9,463	11,657	11,648	9,473						

Core Based Statistical Area	County	2019 Population Estimates <sup>1</sup>	2019 Point Source (tpy)	2017 NEI Data (tpy)	2017 Point Source Data (tpy)	2017 NEI Non-Point Source Data with 2019 Point Source Data (tpy)	PWEI	Required SO2 PWEI Monitors	SO <sub>2</sub> DRR	Required SO <sub>2</sub> NCore Monitors (high- sensitivity)	Total Required SO <sub>2</sub> Monitors	Existing Monitors <sup>2</sup>
None		not available					NA	NA	NA	0	0	1
	Freestone <sup>4</sup>		17	47,653	47,645	24			0	0	0	1
Total Monitors								6	10	3	19	31

<sup>1</sup>United States Census Bureau population estimates as of July 1, 2019.

Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)

<sup>2</sup>Monitors may fulfill multiple monitoring requirements and are only counted once.

<sup>3</sup>Micropolitan statistical area

<sup>4</sup>Area not classified as a metropolitan or micropolitan statistical area.

DRR - Data Requirements Rule

NA - not applicable

NCore - National Core Multipollutant Monitoring Stations

NEI - National Emissions Inventory

PWEI - population weighted emission index (Core Based Statistical Area Population\*[2017 NEI non-point source data and 2018 point source data]/1,000,000)

 $SO_2$  - sulfur dioxide

tpy - tons per year

# Appendix F

## Sulfur Dioxide Ongoing Data Requirements Annual Report



#### Appendix F: Sulfur Dioxide Ongoing Data Requirements Annual Report

As required by 40 Code of Federal Regulations (CFR) Section 51.1205(b), this report provides the Texas Commission on Environmental Quality's (TCEQ) annual assessment of sulfur dioxide (SO<sub>2</sub>) emissions changes for areas designated attainment/unclassifiable for the 2010 SO<sub>2</sub> National Ambient Air Quality Standard (NAAQS), where the designations were based on characterization of air quality by modeling actual SO<sub>2</sub> emissions.

Out of all Texas counties (or portions of counties) currently designated attainment/unclassifiable for the 2010 SO<sub>2</sub> NAAQS, only the seven counties shown in Table 1 were designated based on modeled actual SO<sub>2</sub> emissions. The most recent (2019) total estimated SO<sub>2</sub> emissions, based on quality assured data from the relevant sources in each county, are listed in Table 1. The table includes emissions from the previous year (2018) and the change in SO<sub>2</sub> emissions from 2018 to 2019. There was no emissions increase from any relevant source in Atascosa, Fort Bend, Goliad, Lamb, Limestone, Robertson, or Wilbarger County. Since each of these seven counties had emissions decreases from the previous year, the original designations modeling for each county provides reasonable assurance that these areas all continue to meet the 2010 one-hour SO<sub>2</sub> primary NAAQS.

For any area where SO<sub>2</sub> monitoring was conducted to characterize air quality pursuant to 40 CFR Section 51.1203, the TCEQ continues to operate the monitor(s) used to meet those requirements and reports quality assured data pursuant to existing ambient monitoring regulations, unless the monitor(s) have been approved for shut down by the EPA Regional Administrator pursuant to 40 CFR Section 51.1203(c)(3) or 40 CFR Section 58.14.

The TCEQ recommends that no additional SO<sub>2</sub> air quality modeling is needed to determine compliance with the 2010 SO<sub>2</sub> NAAQS for any of the seven Texas counties listed in Table 1.

County	Relevant Source	2018 SO <sub>2</sub> (tpy)	2019 SO₂ (tpy)	Difference 2018 to 2019
Atascosa	San Miguel Electric Plant	11,880	8,940	-2,940
Fort Bend	W.A. Parish Electric Generating Station	38,165	28,828	-9,337
Goliad	Coleto Creek Power Station	13,213	11,264	-1,949
Lamb	Tolk Station Power Plant	9,958	7,225	-2,733
Limestone	Limestone Electric Generating Station	8,320	5,686	-2,634
Robertson	Twin Oaks Power Station	2,523	2,408	-116
Wilbarger	Oklaunion Power Station	2,191	1,779	-412

 $SO_2$  – sulfur dioxide

tpy – tons per year

# Appendix G

## Total Suspended Particulate Lead Monitor Requirements and Count Summary



#### Appendix G: Total Suspended Particulate Lead Monitor Requirements and County Summary

Metropolitan Statistical Area	County	Pb Source (Facility Name) or Monitoring Requirement	2019 Pb Source Emissions (tpy)	2018 Pb Source Emissions (tpy)	2017 Pb Source Emissions (tpy)	Site Name	Required Monitors <sup>1</sup>	Existing Monitors <sup>1</sup>
Dallas-Fort Wo	rth-Arlington	l					3	3
	Collin	Maintenance Area	NA	NA	NA	Frisco Eubanks <sup>1,2</sup>	1	1
	Collin	Maintenance Area	NA	NA	NA	Frisco Stonebrook <sup>2</sup>	1	1
	Kaufman	Conecsus, LLC	0.1804	0.2812	0.2617	Terrell Temtex <sup>1</sup>	1	1
Totals							3	3

<sup>1</sup>Collocated quality control monitors are not included in totals.

 $^{2}\mbox{Monitor}$  required to fulfill State Implementation Plan commitments.

LCC - Limited Liability Company

NA - not applicable

Pb - lead

tpy - tons per year

# Appendix H

## Ozone Monitor Requirements and Count Summary



#### **Appendix H: Ozone Monitor Requirements and Count Summary**

Metropolitan Statistical Area	2019 Population Estimates <sup>1</sup>	2017-2019 8-Hour Design Value (ppm)	Design Value as Percent of NAAQS <sup>2</sup>	Total Required SLAMS Monitors	Total Required NCore/PAMS Monitors	Total Required Monitors <sup>3</sup>	Total Existing Monitors⁴
Dallas-Fort Worth-Arlington	7,573,136	0.077	110%	3	1	4	18
Houston-The Woodlands-Sugar Land	7,066,141	0.081	116%	3	1	4	21
San Antonio-New Braunfels	2,550,960	0.073	104%	2	0	2	3
Austin-Round Rock-Georgetown	2,227,083	0.069	99%	2	0	2	2
McAllen-Edinburg-Mission	868,707	0.055	79%	1	0	1	1
El Paso	844,124	0.075	107%	2	1	3	7
Killeen-Temple	460,303	0.069	99%	2	0	2	2
Corpus Christi	429,024	0.061	87%	2	0	2	2
Brownsville-Harlingen	423,163	0.059	84%	1	0	1	1
Beaumont-Port Arthur	392,563	0.070	100%	2	0	2	7
Lubbock	322,257	NA	NA	0	0	0	0
Longview	286,657	0.065	93%	1	0	1	2
Laredo	276,652	0.056	80%	0	0	0	1
Waco	273,920	0.065	93%	1	0	1	1
Amarillo	265,053	NA	NA	0	0	0	0
College Station-Bryan	264,728	NA	NA	0	0	0	0
Tyler	232,751	0.066	94%	1	0	1	1
Midland	182,603	NA	NA	0	0	0	0
Abilene	172,060	NA	NA	0	0	0	0
Odessa	166,223	NA	NA	0	0	0	0
Wichita Falls	151,254	NA	NA	0	0	0	0
Texarkana	148,761	NA	NA	0	0	0	0
Sherman-Denison	136,212	NA	NA	0	0	0	0
San Angelo	122,027	NA	NA	0	0	0	0
Victoria	99,742	0.063	90%	1	0	1	1
Granbury⁵	61,643	0.067	96%	0	0	0	1
Corsicana <sup>5</sup>	50,113	0.064	91%	0	0	0	1
Totals				24	3	27	72

<sup>1</sup>United States Census Bureau population estimates as of July 1, 2019. <u>Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)</u>

<sup>2</sup>2015 eight-hour ozone National Ambient Air Quality Standard (NAAQS) is 0.070 parts per million (ppm).

<sup>3</sup>Total Required Monitors is a sum of requirements for SLAMS, PAMS, and NCore.

<sup>4</sup>Monitors may fulfill multiple monitoring requirements and are only counted once.

<sup>5</sup>Area is classified as a micropolitan statistical area and is not subject to SLAMS requirements.

NA - not applicable

NCore - National Core Multipollutant Monitoring Stations

PAMS - Photochemical Assessment Monitoring Stations

SLAMS - State or Local Air Monitoring Stations

## Appendix I

## Carbon Monoxide Monitor Requirements and Count Summary



#### Appendix I: Carbon Monoxide Monitor Requirements and Count Summary

Core Based Statistical Area <sup>1</sup>	2019 Population Estimates <sup>2</sup>	Site Name	Required CO NCore Monitors	Required CO Near Road Monitors	Total Required Monitors <sup>3</sup>	Total Existing Monitors <sup>4</sup>
Dallas-Fort Worth-Arlington	52,600		1	1	2	2
		Dallas Hinton <sup>5</sup>	1	0	1	1
		Fort Worth California Parkway	0	1	1	1
Houston-The Woodlands- Sugar Land	51,639		1	1	2	3
		Clinton <sup>5</sup>	0	0	0	1
		Houston Deer Park #2 <sup>5</sup>	1	0	1	1
		Houston North Loop	0	1	1	1
San Antonio- New Braunfels	50,113		0	1	1	1
		San Antonio Interstate 35 <sup>5</sup>	0	1	1	1
Austin-Round Rock- Georgetown	49,859		0	1	1	1
		Austin North Interstate 35	0	1	1	1
El Paso	45,844		1	0	1	3
		El Paso Chamizal <sup>5</sup>	1	0	1	1
		El Paso UTEP	0	0	0	1
		Ojo De Agua	0	0	0	1
Laredo	36,643		0	0	0	1
		Laredo Vidaurri	0	0	0	1
Waco	35,882		0	0	0	1
		Waco Mazanec	0	0	0	0
Totals			3	4	7	12

<sup>1</sup>This list does not include core based statistical areas with zero requirements and zero monitors. <sup>2</sup>United States Census Bureau population estimates as of July 1, 2019.

Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)

<sup>3</sup>Total Required Monitors is a sum of requirements for NCore and Near-Road.

<sup>4</sup>Monitors may fulfill multiple monitoring requirements and are only counted once.

<sup>5</sup>High-Sensitivity CO monitor (high-sensitivity CO monitors are recommended at NCore sites)

# - number

CO - carbon monoxide

NCore - National Core Multipollutant Monitoring Stations

UTEP – University of Texas at El Paso

## Appendix J

### Particulate Matter of 10 Micrometers or Less Monitor Requirements and Count Summary



Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	2017 2019 Maximum Concentration (µg/m <sup>3</sup> )	Percent of NAAQS <sup>3</sup> (%)	Required Monitors <sup>4</sup>	Existing Monitors <sup>4</sup>
Dallas-Fort Worth-Arlington	7,573,136		102	68	2-4	2
		Earhart	61	41		
		Convention Center (collocated QC pair)	102	68		
Houston-The Woodlands-Sugar Land	7,066,141		111	74	2-4	5
		Clinton (collocated QC pair)	111	74		
		Houston Monroe	97	65		
		Houston North Wayside <sup>5</sup>	NA	NA		
		Lang	101	67		
		Texas City Fire Station	105	70		
San Antonio-New Braunfels	2,550,960		117	78	2-4	2
		San Antonio Bulverde Parkway <sup>5</sup>	NA	NA		
		Frank Wing Municipal Court	117	78		
Austin-Round Rock-Georgetown	2,227,083		97	65	2-4	2
		Austin Webberville Road	97	65		
		Austin Audubon Society	90	60		
McAllen-Edinburg-Mission	868,707		93	62	1-2	1
		Mission	93	62		
El Paso	844,124		137	91	2-4	5
		El Paso Mimosa (previously Riverside)	126	84		
		Ivanhoe	85	57		
		Ojo De Agua (collocated QC pair)	137	91		
		Socorro Hueco (collocated QC pair)	114	76		
		Van Buren	134	89		
Killeen-Temple	460,303		NA	0	0-1	0
Corpus Christi	429,024		84	56	0-1	1
		Dona Park	84	56		
Brownsville-Harlingen	423,163		NA	0	0-1	0
Beaumont-Port Arthur	392,563		NA	0	0-1	0
Lubbock	322,257		NA	0	0-1	0

Table 1: Particulate Matter of 10 Micrometers or Less Monitoring Requirements and Monitor Locations<sup>1</sup>

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	2017-2019 Maximum Concentration (μg/m <sup>3</sup> )	Percent of NAAQS <sup>3</sup> (%)	Required Monitors <sup>4</sup>	Existing Monitors <sup>4</sup>
Longview	286,657		NA	0	0-1	0
Laredo	276,652		81	54	0-1	2
		Laredo Vidaurri	81	54		
		Laredo Bridge	75	50		
Waco	273,920		NA	0	0-1	0
Amarillo	265,053		NA	0	0-1	0
College Station-Bryan	264,728		NA	0	0-1	0
Totals					11-32	20

<sup>1</sup>This list doesn't include metropolitan statistical areas with zero requirements and zero monitors.

<sup>2</sup>United States Census Bureau population estimates as of July 1, 2019.

 $^{3}$ Current PM<sub>10</sub> NAAQS is 150 micrograms per cubic meter (µg/m<sup>3</sup>).

<sup>4</sup>collocated QC quality control monitors are not counted.

<sup>5</sup>Monitor deployed 2020-2021, incomplete design values are not used for regulatory compliance.

% - percent

NAAQS - National Ambient Air Quality Standards

 $PM_{10}$  - particulate matter of 10 micrometers or less

Site Name	2017-2019 Maximum Concentration (µg/m³)	2019 Annual Mean Concentration (μg/m³)	2018 Annual Mean Concentration (µg/m³)	2017 Annual Mean Concentration (µg/m³)
Socorro Hueco (collocated QC pair)*	114	33	34	32
Clinton (collocated QC pair)*	111	28	29	27
Ivanhoe	85	27	21	19
El Paso Mimosa (previously Riverside)	126	26	29	28
Van Buren	134	26	30	20
Laredo Vidaurri	81	25	25	22
Mission	93	24	24	25
Laredo Bridge	75	21	22	19
Houston Monroe	97	21	23	21
Convention Center (collocated QC pair)	102	20	25	21
Austin Webberville Road	97	20	23	22
Ojo De Agua (collocated QC pair)	137	20	24	21
Frank Wing Municipal Court	117	19	21	22
Lang	101	19	22	21
Earhart	61	19	24	24
Texas City Fire Station	105	17	21	14
Dona Park	84	17	20	20
Austin Audubon Society	90	12	18	15
San Antonio Bulverde Parkway** (previously Selma)	NA	NA	NA	NA
Houston North Wayside**	NA	NA	NA	NA

\*Highest annual mean concentrations, confirms at least half of collocated quality control (QC) monitoring occurs at network sites among the highest.

\*\*New monitor deployed in 2020-2021, resulting in incomplete design value. Incomplete design values are not used for regulatory compliance.

µg/m<sup>3</sup> - micrograms per cubic meter





#### Table 1: Particulate Matter of 2.5 Micrometers or Less Monitor Requirement and Count Summary

Metropolitan Statistical Area	2019 Population Estimates <sup>1</sup>	2017 2019 DV (µg/m <sup>3</sup> ) Annual (for Area)	2017 2019 DV (µg/m <sup>3</sup> ) 24-Hour (for Area)	Percent of NAAQS Annual <sup>2</sup> (for Area)	Percent of NAAQS 24-Hour <sup>3</sup> (for Area)	Required FRM/ FEM Monitors	Required NCore Monitors	Required Near Road Monitors	Total Required Monitors <sup>4</sup>	Total Existing Monitors <sup>4</sup>
Dallas-Fort Worth-Arlington	7,573,136	9.2	20	77	57	2	4	1	7	13
Houston-The Woodlands-Sugar Land	7,066,141	10.3	27	86	77	3	4	1	8	16
San Antonio-New Braunfels	2,550,960	8.4	21	70	60	2	0	1	3	5
Austin-Round Rock-Georgetown	2,227,083	9.8	23	82	66	2	0	1	3	3
McAllen-Edinburg-Mission	868,707	10.8	29	90	83	2	0	0	2	2
El Paso	844,124	8.7	24	73	69	1	4	0	5	8
Killeen-Temple <sup>5</sup>	460,303	8.3	19	69	54	0	0	0	0	1
Corpus Christi	429,024	9.0	24	75	69	0	0	0	0	4
Brownsville-Harlingen	423,163	9.9	25	83	71	0	0	0	0	2
Beaumont-Port Arthur <sup>5</sup>	392,563	9.6	22	80	63	0	0	0	0	3
Lubbock <sup>5</sup>	322,257	6.0	17	50	49	0	0	0	0	1
Longview	286,657	8.5	18	71	51	0	0	0	0	3
Laredo <sup>5</sup>	276,652	10.0	27	83	77	0	0	0	0	1
Waco	273,920	NA	NA	NA	NA	0	0	0	0	1
Amarillo <sup>5</sup>	265,053	5.5	12	46	34	0	0	0	0	1
College Station-Bryan <sup>5</sup>	264,728	NA	NA	NA	NA	0	0	0	0	1
Odessa <sup>5</sup>	166,223	8.0	20	67	57	0	0	0	0	1
Texarkana	148,761	8.9	19	74	54	0	0	0	0	1
Eagle Pass <sup>5,6</sup>	58,722	7.5	23	63	66	0	0	0	0	1
Corsicana <sup>6</sup>	50,113	NA	NA	NA	NA	0	0	0	0	1
Kingsville <sup>5,6</sup>	31,084	9.9	27	83	77	0	0	0	0	1
Big Bend National Park <sup>5,7</sup>	NA	6.1	14	51	40	0	0	0	0	1
Totals*						12	12	4	28	71

<sup>2</sup>Current PM<sub>2.5</sub> Annual NAAQS is 12.0 micrograms per cubic meter ( $\mu$ g/m<sup>3</sup>).

<sup>3</sup>Current PM<sub>2 5</sub> 24-hour NAAQS is 35  $\mu$ g/m<sup>3</sup>.

<sup>4</sup>Individual monitors may fulfill multiple requirements and are only counted once. Collocated quality control monitors are not included in totals.

<sup>5</sup>Annual values do not meet completeness criteria; monitors deployed in 2017, 2018, or 2019. Incomplete design value information is not used for the purposes of regulatory compliance.

<sup>6</sup>Area is classified as a micropolitan statistical area and is not subject to SLAMS requirements.

<sup>7</sup>Area not classified as a metropolitan or micropolitan statistical area.

This list does not include metropolitan statistical areas with no requirement and no monitors.

DV - design value

FEM - federal equivalent method

FRM - federal reference method

NA - not applicable

NAAQS - National Ambient Air Quality Standards

#### 2021 Annual Monitoring Network Plan

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Annual DV (µg/m³)	2017 2019 24-Hour DV (µg/m³)	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>5</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
				Anne	24-H	Per	Per	FRM	Conti	Req	Re	Requ	Ĕ	F
Dallas-Fort Worth- Arlington	7,573,136			9.2	20	77	57	2	7	Y	4	1	7	13
		Convention Center	Partisol 2025	9.1	19	76	54	1	0		0	0	1	1
		Dallas Hinton (collocated QC pair)	Partisol 2025, BAM1020 PM2.5, BAM1020 PM10-2.5, SASS/URG Speciation <sup>7</sup> (Partisol 2025 QC)	9.2	20	77	57	0	1		4	0	4	4
		Denton Airport South <sup>9</sup>	BAM1022	7.6	14	63	40	0	1		0	0	0	1
		Fort Worth California Parkway North (collocated QC pair)	BAM1022 (BAM1022 QC)	8.5	18	71	51	0	1		0	1	1	1
		Fort Worth Northwest	BAM1022	8.5	18	71	51	1	1		0	0	1	1
		Haws Athletic Center	BAM1022	8.5	18	71	51	0	1		0	0	0	1
		Kaufman	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
		Midlothian OFW	Partisol 2025, TEOM <sup>8</sup> , URG/2025 Speciation	8.0	19	67	54	0	1		0	0	0	3
Houston-The Woodlands- Sugar Land	7,066,141			10.3	27	86	77	3	10	Y	4	1	8	16
		Baytown	BAM1022	9.2	22	77	63	1	1		0	0	1	1
		Clinton (collocated QC pair)	Partisol 2025, TEOM <sup>8</sup> , 2025 Speciation (pending) (Partisol 2025 QC)	10.3	22	86	63	1	1		0	0	1	3
		Conroe Relocated	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
		Galveston 99 <sup>th</sup> Street	BAM1022	7.0	22	58	63	0	1		0	0	0	1

Table 2: Particulate Matter of 2.5 Micrometers or Less Monitor Design Value, Location and Monitor Type<sup>1</sup>

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Аппиаl DV (µg/m³)	2017 2019 24-Hour DV (µg/m³)	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>5</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
		Houston Aldine (collocated QC pair)	BAM 1022 (Partisol 2025 QC)	9.4	27	78	77	1	1		0	0	1	1
		Houston Deer Park #2 (speciation collocated QC pair <sup>7</sup> )	Partisol 2025, BAM1020 PM2.5, BAM1020 PM10-2.5, SASS/URG Speciation <sup>7</sup> (SASS/URG Speciation QC <sup>7</sup> )	8.0	21	67	60	0	1		4	0	4	4
		Houston East <sup>9</sup>	BAM1022	10.5	23	88	66	0	1		0	0	0	1
		Houston North Loop	T2025	9.9	23	83	66	0	0		0	1	1	1
		Houston North Wayside	BAM1022	NA	NA	NA	NA	0	1		0	0	0	1
		Houston Westhollow	BAM1022	NA	NA	NA	NA	0	1		0	0	0	1
		Seabrook Friendship Park	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
San Antonio-New Braunfels	2,550,960			8.4	21	70	60	2	5	Y	0	1	3	5
		Calaveras Lake <sup>9</sup>	BAM1022	7.5	28	63	80	1	1		0	0	1	1
		Old Highway 90	TEOM 1405 <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
		San Antonio Interstate 35 <sup>9</sup>	BAM1022	8.4	27	70	77	0	1		0	1	1	1
		San Antonio Northwest (collocated QC pair)	BAM 1022 (Partisol 2025 QC)	8.4	21	70	60	1	1		0	0	1	1
		Von Ormy Highway 16 (previously Palo Alto) <sup>9</sup>	BAM1022	NA	NA	NA	NA	0	1		0	0	0	1
Austin-Round Rock- Georgetown	2,227,083			9.8	23	82	66	2	3	Y	0	1	3	3
		Austin North Interstate 35	BAM1022	9.3	22	78	63	1	1		0	1	2	1

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Annual DV (µg/m³)	2017 2019 24-Hour DV (μg/m <sup>3</sup> )	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>5</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
		Austin North Hills Drive (previously Austin Northwest) <sup>9</sup>	BAM1022	NA	NA	NA	NA	0	1		0	0	0	1
		Austin Webberville Road (collocated QC pair)	BAM 1022 (Partisol 2025 QC)	9.8	23	82	66	1	1		0	0	1	1
McAllen-Edinburg- Mission	868,707			10.8	29	90	83	2	1	Y	0	0	2	2
		Edinburg East Freddy Gonzalez Drive	Partisol 2025	9.6	29	80	83	1	0		0	0	1	1
		Mission	BAM1022	10.8	28	90	80	1	1		0	0	1	1
El Paso	844,124			8.7	24	73	69	1	4	Y	4	0	5	8
		Ascarate Park SE	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
		El Paso Chamizal	Partisol 2025, BAM1020 PM2.5, BAM1020 PM10-2.5, URG/SASS Speciation <sup>7</sup>	8.8	24	73	69	0	1		4	0	4	4
		El Paso UTEP	Partisol 2025, TEOM <sup>8</sup>	7.4	21	62	60	1	1		0	0	1	2
		Socorro Hueco	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
Killeen-Temple <sup>9</sup>	460,303			8.3	19	69	54	0	1	NA	0	0	0	1
		Temple Georgia <sup>9</sup>	BAM1022	8.3	19	69	54	0	1		0	0	0	1
Corpus Christi	429,024			9.0	24	75	69	0	2	NA	0	0	0	4
		Corpus Christi Huisache (collocated QC pair)	BAM1022 (BAM1022 QC)	9.0	24	75	69	0	1		0	0	0	1
		Dona Park <sup>9</sup>	Partisol 2025, TEOM <sup>8</sup> , URG/2025 Speciation	7.8	23	65	66	0	1		0	0	0	3

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Аппиаl DV (µg/m³)	2017 2019 24-Hour DV (µg/m <sup>3</sup> )	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>5</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
Brownsville-Harlingen	423,163			9.9	25	83	71	0	2	NA	0	0	0	2
		Brownsville	BAM1022	9.9	25	83	71	0	1		0	0	0	1
		Isla Blanca State Park Road <sup>9</sup>	BAM1022	8.8	20	73	57	0	1		0	0	0	1
Beaumont-Port Arthur <sup>9</sup>	392,563			9.6	22	80	63	0	3	NA	0	0	0	3
		Hamshire <sup>9</sup>	BAM1022	8.4	21	70	60	0	1		0	0	0	1
		Port Arthur Memorial School <sup>9</sup>	BAM1022	9.5	21	79	60	0	1		0	0	0	1
		SETRPC 42 Mauriceville <sup>9</sup>	BAM1022	9.6	22	80	63	0	1		0	0	0	1
Lubbock <sup>9</sup>	322,257			6.0	17	50	49	0	1	NA	0	0	0	1
		Lubbock 12 <sup>th</sup> Street <sup>9</sup>	BAM1022	6.0	17	50	49	0	1		0	0	0	1
Longview	286,657			8.5	18	71	51	0	1	NA	0	0	0	3
		Karnack	Partisol 2025, TEOM <sup>8</sup> , URG/SASS Speciation <sup>7</sup>	8.4	18	70	51	0	1		0	0	0	3
Laredo <sup>9</sup>	276,652			10.0	27	83	77	0	1	NA	0	0	0	1
		World Trade Bridge <sup>9</sup>	BAM1022	10.0	27	83	77	0	1		0	0	0	1
Waco	273,920			NA	NA	NA	NA	0	1	NA	0	0	0	1
		Waco Mazanec	TEOM 1405 <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
Amarillo <sup>9</sup>	265,053			5.5	12	46	34	0	1	NA	0	0	0	1
		Amarillo A&M <sup>9</sup>	BAM1022	5.5	12	46	34	0	1		0	0	0	1

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Annual DV (µg/m <sup>3</sup> )	2017 2019 24-Ноиг DV (µg/m <sup>3</sup> )	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>5</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
College Station-Bryan <sup>9</sup>	264,728			NA	NA	NA	NA	0	1	NA	0	0	0	1
		Bryan Finfeather Road <sup>9</sup>	BAM1022	NA	NA	NA	NA	0	1		0	0	0	1
Odessa <sup>9</sup>	166,223			8.0	20	67	57	0	1	NA	0	0	0	1
		Odessa Gonzales <sup>9</sup>	BAM1022	8.0	20	67	57	0	1		0	0	0	1
Texarkana	148,761			8.9	19	74	54	0	1	NA	0	0	0	1
		Texarkana New Boston	BAM1022	9.2	19	77	54	0	1		0	0	0	1
Eagle Pass <sup>9,10</sup>	58,722			7.5	23	63	66	0	1	NA	0	0	0	1
		Eagle Pass <sup>9</sup>	BAM1022	7.5	23	63	66	0	1		0	0	0	1
Corsicana <sup>10</sup>	50,113			NA	NA	NA	NA	0	1	NA	0	0	0	1
		Corsicana Airport	TEOM <sup>8</sup>	NA	NA	NA	NA	0	1		0	0	0	1
Kingsville <sup>9,10</sup>	31,084			9.9	27	83	77	0	1	NA	0	0	0	1
		National Seashore <sup>9</sup>	BAM1022	9.9	27	83	77	0	1		0	0	0	1

Metropolitan Statistical Area	2019 Population Estimates <sup>2</sup>	Site Name	Monitor Type(s)	2017 2019 Annual DV (µg/m³)	2017 2019 24-Hour DV (µg/m³)	Percent of NAAQS (Annual <sup>3</sup> )	Percent of NAAQS (24-Hour <sup>4</sup> )	Required SLAMS FRM/FEM Monitor <sup>s</sup>	Continuous Monitor <sup>6</sup>	Continuous Requirement Met <sup>6</sup>	Required NCore Monitor	Required Near Road Monitor	Total Required Monitors <sup>5</sup>	Total Existing Monitors <sup>5</sup>
Big Bend National Park <sup>9,11</sup>	NA			6.1	14	51	40	0	1	NA	0	0	0	1
		Bravo Big Bend <sup>9</sup>	BAM1022	6.1	14	51	40	0	1		0	0	0	1
Totals	Totals							12	50	Y	12	4	28	71

<sup>1</sup>This list does not include metropolitan statistical areas with no requirements and no monitors. Metropolitan and Micropolitan Statistical Areas Totals: 2010-2019 (census.gov)

<sup>2</sup>United States Census Bureau population estimates as of July 1, 2019.

<sup>3</sup>Current PM<sub>2.5</sub> Annual NAAQS is 12.0 micrograms per cubic meter ( $\mu$ g/m<sup>3</sup>).

<sup>4</sup>Current PM<sub>2 5</sub> 24-hour NAAQS is 35 µg/m<sup>3</sup>.

<sup>5</sup>Individual monitors may fulfill multiple requirements and are only counted once. Collocated quality control monitors are not included in totals.

<sup>6</sup>Continuous PM<sub>2.5</sub> monitor total must equal at least one-half the required number of SLAMS-required sites and each MSA with SLAMS-required sites must have a minimum of one.

<sup>7</sup>Speciation monitor for NCore or Chemical Speciation Network (CSN)

<sup>8</sup>PM<sub>2.5</sub> TEOM monitors are non-FEM/FRM (non-NAAQS comparable)

<sup>9</sup>Annual values do not meet completeness criteria; monitors deployed in 2017 - 2021. Incomplete design value (gray font) information is not used for regulatory compliance.

<sup>10</sup>Area is classified as a micropolitan statistical area and is not subject to SLAMS requirements.

<sup>11</sup>Area not classified as a metropolitan or micropolitan statistical area.

# - number

DV - design value

FEM - federal equivalent method

FRM - federal reference method

NA - not applicable

NAAQS - National Ambient Air Quality Standards

NCore - National Core Multipollutant Monitoring Stations require PM2.5 FRM mass, PM2.5 FEM continuous mass, PM10-2.5 and PM2.5 CSN speciation

N - no

OFW - Old Fort Worth

PM<sub>2.5</sub> FRM mass method code 145 by Partisol 2025 or 2025i

PM<sub>2.5</sub> FEM mass method codes 170 and 209 by beta attenuation method (BAM)1020 or 1022

PM<sub>2.5</sub> non-regulatory mass method code 702 by tapered element oscillating microbalance (TEOM)

PM<sub>2 5</sub> speciation method codes 810, 811, 812, 826, 831, 838, 839, 840, 841, 842, 846, and 849

PM<sub>10-2.5</sub> method code 185 by BAM1020

QC - quality control

SASS - second generation speciation sampling system (for CSN only)

SETRPC - Southeast Texas Regional Planning Commission

SE - southeast

SLAMS - State or Local Air Monitoring Stations

URG - University Research Glassware speciation sampler

UTEP - University of Texas at El Paso

Y - yes

# Appendix L

## Volatile Organic Compound and Carbonyl Monitor Requirements and Count Summary



#### Appendix L: Volatile Organic Compound and Carbonyl Monitor Requirement and Count Summary

Core Based Statistical Area <sup>1</sup>	Required PAMS VOC AutoGC Monitors	Existing VOC Canister Monitors	Existing VOC AutoGC Monitors	Total Existing VOC Monitors
Dallas-Fort Worth-Arlington	1	3	2	5
Houston-The Woodlands-Sugar Land	1	0	3	3
El Paso	0	0	1	1
Beaumont-Port Arthur	0	0	2	2
Laredo	0	1	0	1
Totals	2	4	8	12

#### Table 1: Volatile Organic Compound Monitor Requirement and Count Summary

<sup>1</sup>This list does not include core based statistical areas with zero requirements and zero monitors.

AutoGC – automated gas chromatograph

PAMS – Photochemical Assessment Monitoring Stations

VOC – volatile organic compound

#### Table 2: Carbonyl Monitor Requirement and Count Summary

Core Based Statistical Area <sup>1</sup>	Required PAMS Carbonyl Samplers	Total Existing Carbonyl Samplers
Dallas-Fort Worth-Arlington	1	2
Houston-The Woodlands-Sugar Land	1	2
Totals	2	4

<sup>1</sup>This list does not include core based statistical areas with zero requirements and zero monitors. PAMS – Photochemical Assessment Monitoring Stations

# Appendix M

## 2021 Additional Monitoring Considerations



#### Appendix M: 2021 Additional Monitoring Considerations

Air Monitoring Site Name or Area of Interest	Monitoring Consideration	Parameter(s)		
Houston Bayland Park	Deploy monitor	PM <sub>2.5</sub> FEM continuous		
Houston Fifth Ward area	Deploy new site	PM <sub>2.5</sub> FEM continuous and volatile organic compounds by canister		
Houston Pleasantville area	Deploy new site	PM <sub>2.5</sub> FEM continuous		
Gregory-Portland area in San Patricio County	Deploy new site	PM <sub>2.5</sub> FEM continuous and volatile organic compounds by canister		

FEM – federal equivalent method

 $\ensuremath{\mathsf{PM}_{2.5}}\xspace$  – particulate matter of 2.5 micrometers or less in diameter