Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

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

Table of Contents

2014 ANNUAL MONITORING NETWORK PLAN 3
INTRODUCTION 3
TCEQ Networks 3
REGULATORY NETWORK CHANGES 3
Nitrogen Dioxide (NO_2) 3
Sulfur Dioxide (SO_2) 8
Lead (Pb) 8
Ozone (O_3) 10
Carbon Monoxide (CO) 10
Particulate Matter of 10 Microns or Less (PM_{10}) 11
Particulate Matter of 2.5 Microns or Less ($PM_{2.5}$) 12
Volatile Organic Compounds (VOC) 14
STATUS OF CHANGES PROPOSED IN 2012 14
STATUS OF CHANGES PROPOSED IN 2013 15
ADDITIONAL CHANGES 15
INSTRUCTIONS FOR COMMENTS 16

Appendix A – TCEQ State and Local Air Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Chemical Speciation Network (CSN), National Air Toxics Trends Stations (NATTS), National Core (NCore), and Federally Funded Special Purpose Monitors (SPM) Networks
Appendix B – Table of Metropolitan Statistical Areas (MSAs), 2013 U.S. Census Bureau Population Estimates, and Monitoring Requirements
Appendix C – NO_2 and High Sensitivity NO_y Monitoring Requirements
Appendix D – Site Assessments for Existing and Proposed Near-Road Sites in Dallas, Houston, Austin, and San Antonio; and Maps for Proposed Near-Road Sites in Dallas and Houston
Appendix E – SO_2 Monitoring Requirements
Appendix F – O_3 Monitoring Requirements
Appendix G – CO Monitoring Requirements
Appendix H - Map of Proposed McAllen-Edinburg-Mission Site
Appendix I – PM_{10} Monitoring Requirements and Network Assessment
Appendix J – $PM_{2.5}$ Monitoring Requirements
Appendix K – TCEQ Responses to Comments Received on the *2014 Annual Monitoring Network Plan*

2014 Annual Monitoring Network Plan

Introduction

Under 40 Code of Federal Regulations (CFR) §58.10, states are required to submit an annual monitoring network plan to the U.S. Environmental Protection Agency (EPA) by July 1 of each year. This monitoring plan is required to provide the framework for establishment and maintenance of an air quality surveillance system, known commonly as the ambient air quality monitoring network. This document provides information on the Texas network of ambient air monitors established to meet regulatory requirements of the National Ambient Air Quality Standards (NAAQS) and other monitors that support this effort. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to the EPA. The plan and any comments received during the 30 day inspection period are forwarded to the EPA for final review and approval. This document presents the current Texas network, as well as proposed changes to the network from July 1, 2013, through December 31, 2015.

TCEQ Networks

TCEQ operates an extensive network of monitors in support of assessing ambient air quality throughout the state of Texas. A list of monitors that fall under the State and Local Air Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Chemical Speciation Network (CSN), National Air Toxics Trends Stations (NATTS), National Core (NCore), and federally funded Special Purpose Monitors (SPM) Networks is located in Appendix A. A table of metropolitan statistical areas (MSAs), 2013 U.S. Census population estimates, and a summary count of required monitors is located in Appendix B.

Regulatory Network Changes

Nitrogen Dioxide (NO_2)

Area-Wide Requirements

Title 40 CFR Part 58, Appendix D, 4.3.3 requires one area-wide ambient air quality monitoring site (site) in each core based statistical area (CBSA) with a population greater than or equal to 1,000,000 people. The requirements stipulate that the site must be located in the area of highest expected NO_2 concentration that is also representative of a neighborhood or larger (urban) spatial scale. Neighborhood scale monitoring is representative of air quality conditions in an area with dimensions between 0.5 and 4.0 kilometers and urban scale monitoring is representative of air quality conditions in an area with dimensions between 4 and 50 kilometers. Based on 2013 U.S. Census estimates for Texas, area-wide neighborhood or urban scale NO_2 monitoring is required in the Dallas-Fort Worth-Arlington, Houston-The Woodlands-Sugarland, San Antonio-New Braunfels, and Austin-Round Rock CBSAs. The NO_2 monitors at the sites listed below were proposed in the 2012 and 2013 annual monitoring network plans as monitors meeting the area-wide requirements. This proposal is pending EPA Regional Administrator approval.

- Houston-The Woodlands-Sugarland: Clinton (AQS 482011035)

- Dallas-Fort Worth-Arlington: Dallas Hinton (AQS 481130069)
- San Antonio-New Braunfels: San Antonio Northwest (AQS 480290032)
- Austin-Round Rock: Austin Northwest (AQS 484530014)

Regional Administrator Required Monitoring (RA-40)

Title 40 CFR Part 58, Appendix D, 4.3.4 states that the EPA Regional Administrators will collaborate with the States to designate a minimum of 40 NO_2 monitoring stations nationwide that are sited in locations to protect susceptible and vulnerable populations. In the 2012 and 2013 annual monitoring network plans, the TCEQ proposed the four NO_2 monitors listed below for RA-40 classification to meet this requirement. This proposal is pending EPA Administrator approval.

- El Paso: Ascarate Park SE (AQS 481410055)
- Houston: Clinton (AQS 482011035)
- Arlington: Arlington Municipal Airport (AQS 484393011)
- Nederland: Nederland High School (AQS 482451035)

Near-Road Monitoring Requirements

Federal Site Selection Requirements

Title 40 CFR Part 58, Appendix D, 4.3.2 requires near-road monitors for CBSAs with populations over 500,000 people. For near-road monitoring, a microscale site must be located within 50 meters of a major roadway with high annual average daily traffic (AADT) counts. Microscale sites are representative of areas in close proximity to major roadways or emission sources. The EPA promulgated a final rule for the phased implementation of this near-road NO_2 monitoring on March 7, 2013. The first phase of the rule requires that one near-road site be deployed in CBSAs with populations greater than or equal to 1,000,000 people by January 1, 2014. An additional near-road site is required by January 1, 2015, in CBSAs with greater than or equal to 2,500,000 people or in any CBSA with a population greater than or equal to 500,000 people and one or more road segments with AADT counts of 250,000 or greater. One site is also required in CBSAs with a population greater than 500,000 people, but less than 1,000,000 people, by January 1, 2017. The requirements also stipulate that sites must be deployed in areas of maximum expected hourly NO_2 concentrations near a major road with high AADT counts with consideration to fleet mix, roadway design, congestion patterns, terrain, and meteorology. These monitors must be deployed away from obstructions or obstacles, within 50 meters of the major roadway, and with an inlet probe height between two and seven meters.

In Texas, this requirement results in a need for eight new near-road monitors. In the first phase, one near-road monitor was deployed in each of the following CBSAs: 1) Houston-The Woodlands-Sugarland, 2) Dallas-Fort Worth-Arlington, 3) Austin-Round Rock, and 4) San Antonio-New Braunfels. In the second phase, an additional near-road

monitor will be deployed by January 1, 2015, in the following CBSAs: 1) Houston-The Woodlands-Sugarland and 2) Dallas-Fort Worth-Arlington . In the final phase, one near-road monitor will be deployed by January 1, 2017, in the following CBSAs: 1) El Paso and 2) McAllen-Edinburg-Mission. See Table 1 for phase one sites deployed in 2014. Appendix C shows the number of existing and required NO_2 monitors.

Table 1: Phase One Site List

AQS#	Site Name	AADT Ranking	FEAADT Ranking	Distance to Nearest Traffic Lane* (meters)	Probe Height** (meters)
481131067	Dallas LBJ Freeway	15	7	24	4
482011066	Houston Southwest Freeway	1	1	24	4
484531068	Austin North Interstate 35	7	10	27	4
480291069	San Antonio Interstate 35	21	3	20	4

*Distance is measured using mapping software and range finder equipment.
**Meteorological parameters are measured at 10 meters above the ground.

TCEQ Site Selection Process

The TCEQ received the highest ranked AADT and Fleet Equivalent (FE) AADT counts for each CBSA with populations over 500,000 from the Texas Department of Transportation (TxDOT). The latitude and longitude of the AADT rankings provided by TxDOT and detailed in Appendix C represent the location of TxDOT traffic counting cameras along the targeted roadway. Through coordination between TCEQ and EPA Region 6, road segments were identified by establishing boundaries encompassing the area along the roadway of the traffic counting camera up to the point of a major roadway intersection or significant traffic divergence. These defined road segments were then ranked, as discussed below.

The TCEQ relied on the requirements in 40 CFR Part 58, Appendix D, 4.3.2(1) for the evaluation of potential near-road sites. The regulation states that:

> The near-road NO_2 monitoring stations shall be selected by ranking all road segments within a CBSA by AADT and then identifying a location or locations adjacent to those highest ranked road segments, considering fleet mix, roadway design, congestion patterns, terrain, and meteorology, where maximum hourly NO_2 concentrations are expected to occur and siting criteria can be met in accordance with appendix E of this part. Where a State or local air monitoring agency identifies multiple acceptable candidate sites where maximum hourly NO_2 concentrations are

> expected to occur, the monitoring agency shall consider the potential for population exposure in the criteria utilized to select the final site location. Where one CBSA is required to have two near-road NO_2 monitoring stations, the sites shall be differentiated from each other by one or more of the following factors: fleet mix; congestion patterns; terrain; geographic area within the CBSA; or different route, interstate, or freeway designation.

Therefore, the TCEQ first sorted the list of AADT counts provided by TxDOT in ascending order. Using the criteria discussed above, the TCEQ then determined the boundaries for each road segment encompassing the top 50 AADT counts. The TCEQ then conducted a physical site reconnaissance to locate potential monitoring sites within each of the top 50 AADT road segments. All areas within each defined road segment were considered for the potential to locate a near-road site.

During this reconnaissance, the TCEQ evaluated the logistical considerations provided under 40 CFR Part 58, Appendix E and the *Near-road NO_2 Monitoring Technical Assistance Document* (TAD) guidelines, including roadway design (at-grade or close to at-grade spaces were preferred), level terrain, distance from obstructions, and meteorology. Additional logistical considerations were also considered, including power availability and sufficient space to accommodate the monitoring station and equipment.

The TCEQ's standard site size is 40-foot by 40-foot, which allows for the inclusion of meteorological equipment and long-term site flexibility to accommodate additional equipment and safe ingress and egress to the site. Meteorological data are valuable in determining potential nearby receptors and sources, as well as assessing data trends. The rigid, 10-meter meteorological tower requires four guy-wires anchored to the fence for safety. The angle and tension of the guy-wires allow the structure to withstand lateral loads such as wind and the cantilevered sensor boom. In addition, the larger 40-foot by 40-foot site provides long-term flexibility for addressing any future near-road monitoring requirements that may target additional parameters. Prior planning for multi-parameter monitoring ensures that the addition of monitoring equipment will not require site improvements, such as site pad or electrical expansion that may affect existing monitoring equipment. Expansion of an existing site can be costly, therefore planning for future expansion from the beginning of site preparation saves money and time in the long-term use of the site.

In addition to conducting the physical site reconnaissance, the TCEQ requested input from TxDOT and local metropolitan planning organizations regarding congestion patterns, fleet mix, traffic diversion plans, future roadway expansions, and long-term construction projects that may later jeopardize continuous site operation or invalidate site representativeness.

After receiving feedback from TxDOT and the local metropolitan planning organizations, the TCEQ made a final evaluation using all available data for each road segment to determine the road segment's overall viability and ranking. The TCEQ focused on complying with the directly-applicable federal requirements listed in 40 CFR Part 58, Appendix D, 4.3.2 by primarily prioritizing potential sites based on AADT ranking. The TCEQ considered road segment FE-AADT rankings, but did not rely solely

on FE-AADT in the prioritization of potential sites since FE-AADT is not a specific siting requirement under 40 CFR Part 58, Appendix D, 4.3.2. The TCEQ then collectively considered logistical constraints, such as space, power availability, terrain, highway grade, and long-term risk to continued viability of site use due to planned roadway construction projects. Failure to meet the criteria for any single parameter did not necessarily preclude the segment from consideration. Appendix D of this plan details the specific reasons for each roadway segment's viability determination.

Near-Road Phase Two Sites

Based on this evaluation process, a final TCEQ ranking was assigned to each roadway segment with a viable site for phase two monitoring. The TCEQ worked closely with EPA Region 6 staff throughout this ranking process to ensure sites were selected in accordance with 40 CFR Part 58, Appendix D, 4.3.2. Although TCEQ evaluated between 50 and 120 of the top-ranked segments in each CBSA for phase two monitoring, only the top three road segments that include a viable monitoring location consistent with the requirements set forth in 40 CFR Part 58, Appendices D and E, are included in Table 2. TCEQ will pursue site agreements for the proposed phase two sites listed below and will work with EPA Region 6 to determine the final location of the phase two site for each CBSA. Appendix D contains detailed information regarding the viability determination for each road segment starting with the highest AADT ranked segments.

Table 2: Potential Phase Two NO_2 Near-Road Sites

TCEQ Rank	AADT Rank	FE AADT Rank	Latitude	Longitude	Location
Houston					
1	8	13	29.85462	-95.39928	On Interstate 45 and Troy Road
2	10	15	29.88090	-95.41198	On Interstate 45 north of Deqalt Street
3	19	20	29.80862	-95.37349	On Interstate 45 south of Wynne Street
Dallas					
1	26	27	32.67594	-97.02460	On Interstate 20 East of State Highway 161
2	36	90	32.66571	-97.32595	On Interstate 20 and South Adams Street
3	49	46	32.67596	-97.03442	On Interstate 20 east of South Great Southwest Parkway

Sulfur Dioxide (SO_2)

Under 40 CFR Part 58, Appendix D, 4.4.2, states are required to establish an SO_2 monitoring network based on a calculated population weighted emissions index (PWEI). This index is calculated by multiplying the population of a CBSA with the emissions inventory (EI) data for counties within that CBSA. The calculated value is then divided by one million in order to obtain the PWEI value. PWEI monitoring requirements are as follows: 1) one monitor in CBSAs with a PWEI value greater than 5,000, 2) two monitors in CBSAs with a PWEI value greater than 100,000, and 3) three monitors in CBSAs with a PWEI value greater than 1,000,000. As shown in Appendix E, the TCEQ used 2013 U.S. Census population estimates and 2011 National Emissions Inventory data with 2012 point source EI data to determine that no additional SO_2 monitors are required beyond the new Amarillo SO_2 monitor previously discussed in the 2013 annual monitoring network plan. The Amarillo 24th Avenue site (AQS 483751025) was deployed in October 2013.

Lead (Pb)

Title 40 CFR Part 58, Appendix D, 4.5, requires a minimum of one source-oriented ambient air Pb monitoring site to measure maximum concentrations near each facility that emits 0.50 tons per year (tpy) or more of Pb based on the most recent National Emission Inventory or other scientifically justifiable methods and data. The EPA may waive this requirement if documentation is included demonstrating that Pb emissions from the source do not contribute to concentrations in excess of 50% of the NAAQS. In addition to source oriented lead monitoring, lead monitors are also required as part of the NCore network at Dallas Hinton (AQS 481130069), Houston Deer Park #2 (AQS 482011039), and Ascarate Park SE (AQS 481410055).

Current Regulatory Pb Monitoring Sites

The TCEQ reviewed 2012 point source EI data to evaluate sources that reported Pb emissions of 0.50 tpy or more. Table 3 lists the sources emitting greater than 0.50 tpy of Pb in 2012. No new sources emitting above 0.50 tpy were identified.

Table 3: 2012 Pb Point Source Emissions Inventory Data > 0.50 TPY

Company	County	Pb Emissions (TPY)	TCEQ Response
Exide Technologies	Collin	0.6016	Pb is currently monitored at the Frisco 5th St., Frisco 7, Frisco Eubanks, and Frisco Stonebrook sites.
Conecsus LLC	Kaufman	2.4123	Pb is currently monitored at the Terrell Temtex site.

The Pb samplers at Skyline Park (AQS 481410058) and Houston East (AQS 482011034) were proposed to be decommissioned in the 2013 annual monitoring network plan. These monitors are not oriented near Pb sources emitting greater than 0.50 tpy and design values have remained well below 50% of the Pb NAAQS. This proposal is pending EPA approval.

Current Pb waivers

Although the 2012 point source EI data was below 0.50 tpy, TCEQ previously obtained Pb waivers for the sources listed below. In 2009, the TCEQ submitted waiver requests for the source-oriented Pb monitoring required at the Red River Army Depot near Texarkana, the U.S. Army Fort Hood facility near Killeen, and the Oxbow Calcining facility in Port Arthur. These waivers were approved by EPA Region 6 in their response letter to the 2010 annual monitoring network plan dated December 23, 2010. In the 2011 annual monitoring network plan, the TCEQ also submitted waiver requests for the source-oriented Pb monitoring required at Coleto Creek Power LP in Goliad County and San Miguel Electric Cooperative, Incorporated in Atascosa County. These waivers were approved by EPA Region 6 in their response letter to the 2011 annual monitoring network plan received July 30, 2012. The TCEQ has reviewed these sites as part of this year's network assessment and determined that they continue to meet eligibility requirements. In 2015 and 2016, the TCEQ will reapply for these waivers as required by 40 CFR Part 58, Appendix D, 4.5(a)(ii).

In February 2013, TCEQ submitted a waiver request for the source-oriented Pb monitoring required at the Lower Colorado River Authority Fayette Power Plant in Fayette County. This waiver request was included in the 2013 annual monitoring network plan and is pending EPA approval.

Special Airport Pb Monitoring

Title 40 CFR Part 58, Appendix D, 4.5, (iii), requires additional Pb monitoring for one year at select airports with Pb EI data above 0.50 tpy but less than 1.0 tpy. EPA identified these airports as having characteristics that may cause or contribute to ambient Pb concentrations that approach or exceed the NAAQS.

As part of this one year monitoring effort, the TCEQ deployed a new Pb monitoring station at Stinson Municipal Airport in Bexar County. This site, San Antonio 99th Street (AQS 480291052), began sampling on July 23, 2012. As shown in Table 4 below, the rolling 3-month average of the monitoring data was below 50% of the Pb NAAQS. With EPA concurrence via letter on December 18, 2013, the TCEQ decommissioned the site on December 19, 2013.

Table 4: San Antonio 99th Street Maximum Rolling 3-Month Averages

Month	Pb-TSP Rolling 3-Month Average (µg/m³)	Percent of Pb NAAQS Current Pb NAAQS is 0.15 µg/m³
August 2012	N/A	N/A
September 2012	N/A	N/A
October 2012	0.0284	19%
November 2012	0.02295	15%
December 2012	0.02231	15%
January 2013	0.01684	11%
February 2013	0.01177	8%
March 2013	0.01006	7%
April 2013	0.01013	7%
May 2013	0.01342	9%
June 2013	0.01649	11%
July 2013	0.01797	12%
August 2013	0.01663	11%

Ozone (O_3)

Title 40 CFR Part 58, Appendix D, 4.1, requires O_3 monitoring in MSAs with populations above 350,000 people. Monitors are also required in MSAs with lower populations if measured O_3 values within that MSA are within 85% of the NAAQS. After assessing O_3 monitoring requirements using the most recently available population estimates and design values, the TCEQ determined that no additional O_3 monitors are required beyond the Killeen-Temple O_3 monitor previously proposed in the 2013 annual monitoring network plan. The Temple Georgia site (AQS 480271045) was deployed in October 2013 within West Temple Park in Temple, Texas, to satisfy the O_3 monitoring requirements for the Killeen-Temple MSA. The O_3 monitoring requirements assessment is included in Appendix F.

Carbon Monoxide (CO)

Title 40 CFR Part 58, Appendix D, 3.0 and 5.0, require high sensitivity CO monitors at NCore sites and one PAMS site per O_3 non-attainment area. Title 40 CFR Part 58, Appendix D, 4.2, also requires the future deployment of CO monitors at near-road sites in 2015 and 2017. In order to meet near-road monitoring requirements in the Dallas-Fort Worth-Arlington and Houston-The Woodlands-Sugarland CBSAs, the TCEQ plans to add CO monitors to one of the two near-road sites in each of these CBSAs by January 1, 2015.

The total number of required and current CO monitors in each MSA is included in Appendix G. TCEQ exceeds minimum requirements through the operations of 19 CO monitors and 4 high sensitivity CO monitors throughout the state. In the 2013 annual monitoring network plan, the TCEQ proposed to decommission CO monitors being

operated beyond minimum requirements at the nine sites listed below. The CO monitors listed below have maintained design values well below the 1-hour and 8-hour CO NAAQS. This proposal is pending EPA approval.

- El Paso UTEP (AQS 481410037)
- Skyline Park (AQS 481410058)
- Houston Aldine (AQS 482010024)
- Lang (AQS 482010047)
- Houston Texas Avenue (AQS 482010075)
- Park Place (AQS 482010416)
- Fort Worth Northwest (AQS 484391002)
- Arlington Municipal Airport (AQS 484393011)
- Austin Northwest (AQS 484530014)

Particulate Matter of 10 Microns or Less (PM_{10})

Title 40 CFR Part 58, Appendix D, 4.6, specifies PM_{10} monitoring requirements in MSAs based on population and monitored design values, if available. After evaluating PM_{10} monitoring requirements using the most recently available U.S. Census population data and measured PM_{10} concentrations, the TCEQ determined that minimum monitoring requirements are met or exceeded for all areas except that one additional PM_{10} monitor is required in the McAllen-Edinburg-Mission MSA. TCEQ proposes to deploy the required PM_{10} monitor at the new proposed $PM_{2.5}$ site scheduled to be deployed in this MSA in 2014. A map depicting the proposed location of this monitor is provided in Appendix H. The number of required and current PM_{10} monitors in each MSA is included in Appendix I.

During 2013, TCEQ replaced aging PM_{10} equipment at several sites to ensure that we continue to meet data completeness requirements. The aging equipment are no longer manufactured and difficult to maintain due to the unavailability of replacement parts and technical support. PM_{10} equipment at the sites listed below were replaced with federal reference method (FRM) equipment with a different sampling method.

- Austin Webberville (AQS 484530021)
- Austin Audubon Society (AQS 484530020)
- Dona Park primary and collocated QC samplers (AQS 483550034)
- Karnack (AQS 482030002)

Additionally, with EPA concurrence, the PM_{10} collocated QC monitor at Laredo Vidaurri was replaced with the same equipment model as the primary monitor so that both monitors have matching sampling methods. The method codes for these monitors have been updated in AQS, and the PM_{10} network assessment in Appendix I lists the current method codes.

TCEQ also re-evaluated PM_{10} collocation requirements in 40 CFR Part 58, Appendix A, 3.3.1, which requires PM_{10} collocation at 15% of the sites within the network to assess precision. A minimum of one PM_{10} collocated QC monitor is required per method, and these collocated monitors must be located at sites that measure within the highest 25th percentile within the network. In the 2013 annual monitoring network plan, TCEQ proposed to decommission the PM_{10} collocated QC monitors at Stage Coach (AQS 484393010) and Texas City Fire Station (AQS 481670004). Due to the equipment replacements discussed above, TCEQ proposes to retain the Texas City Fire Station (AQS 481670004) PM_{10} collocated QC monitor at this time to continue to meet EPA collocation requirements. TCEQ still proposes to decommission the PM_{10} collocated QC monitor at Stage Coach (AQS 484393010), pending EPA approval.

TCEQ also commits to replacing the PM_{10} collocated QC monitor at Socorro Hueco (AQS 481410057) with the same equipment model as the primary monitor so that both monitors have matching sampling methods. TCEQ will continue collocated QC monitoring at the Ojo de Agua (AQS 481411021), Clinton (AQS 482011035), Convention Center (AQS 481130050), Houston Deer Park #2 (AQS 482011039), Laredo Vidaurri (AQS 484790016), and Socorro Hueco (AQS 481410057) sites. Table 5 summarizes PM_{10} collocation requirements.

Table 5: Summary of PM_{10} Collocation Requirements

Sampling Method Code	Total # Primary Monitors	Required # Collocated Monitors	Current # Collocated Monitors	Additional Collocated Monitors Needed	Excess Collocated Monitors	Excess Collocated Monitors for Decommission
62	8	1	2	0	1	
63	1	1	2	0	1	
64	5	1	2	0	1	Stage Coach
141	12	2	3	0	1	
Total	27	5	9	0	4	

Particulate Matter of 2.5 Microns or Less ($PM_{2.5}$)

Title 40 CFR Part 58, Appendix D, 4.7, requires $PM_{2.5}$ monitoring in MSAs with populations above 500,000 people and in MSAs with lower populations if measured $PM_{2.5}$ values for an MSA are within 85% of the NAAQS. On December 14, 2012, EPA lowered the annual average primary standard from 15 to 12 micrograms per cubic meter ($\mu g/m^3$). In order to meet $PM_{2.5}$ monitoring requirements based on 2011 - 2013 design values, the TCEQ plans to add a $PM_{2.5}$ FRM gravimetric monitor for the Brownsville-

Harlingen CBSA at Brownsville (AQS 480610006) by January 1, 2015, and at a new site in the McAllen-Edinburg-Mission CBSA by January 1, 2015. TCEQ proposes to collocate $PM_{2.5}$ tapered element oscillating microbalance (TEOM) monitors at these sites and operate the FRM monitors once every sixth day. A map depicting the proposed location of the McAllen-Edinburg-Mission FRM monitor is located in Appendix H. TCEQ's assessment of $PM_{2.5}$ monitoring requirements and current monitors is included in Appendix J.

The TCEQ proposed to add a $PM_{2.5}$ FRM gravimetric monitor to the Austin Northwest site (AQS 484530014) in the 2013 annual monitoring network plan based on the 2010-2012 design value of 10.2 µg/m^3. After further evaluation using 2011-2013 design values, the additional monitor is not required to meet regulatory requirements in the Austin-Round Rock MSA based on the new design value of 9.6 µg/m^3. As a result, no additional $PM_{2.5}$ FRM gravimetric monitors will be deployed in the Austin-Round Rock MSA at this time.

Title 40 CFR Part 58, Appendix D, 4.7.1 (b)(2) requires a minimum of one $PM_{2.5}$ monitor in each CBSA with a population greater than or equal to 2,500,000 people to be collocated at a near-road NO_2 monitoring station by January 1, 2015. In order to meet $PM_{2.5}$ near-road monitoring requirements in the Dallas-Fort Worth-Arlington and Houston-The Woodlands-Sugarland CBSAs, the TCEQ will deploy a $PM_{2.5}$ FRM gravimetric sampler operated every sixth day and a collocated $PM_{2.5}$ TEOM monitor at one of the two near-road sites in each of these CBSAs by January 1, 2015.

The TCEQ proposes to continue $PM_{2.5}$ FRM gravimetric sampling at Convention Center (AQS 481130050) in Dallas and to discontinue the $PM_{2.5}$ speciation monitoring at this site. The Dallas Hinton NCore site is located within five miles of this site and provides similar speciation data.

The TCEQ currently operates a $PM_{2.5}$ FRM and TEOM monitor at the Haws Athletic Center site (AQS 484391006) in Fort Worth on a one in three day frequency. The TCEQ proposes to change the sampling frequency for the FRM monitor to once every sixth day due to the collocation of the TEOM monitor.

In March 2013, the TCEQ deployed a $PM_{2.5}$ FRM gravimetric monitor with speciation analysis at the Galveston 99th Street site (AQS 481671034) to support an exceptional events special study. The sampler will operate daily from April 2014 through August 2014 and then once every sixth day from September 2014 through March 2015. The special purpose speciation study will end March 2015. The $PM_{2.5}$ FRM gravimetric monitor will continue to operate once every sixth day after March 2015.

In the 2013 annual monitoring network plan, the TCEQ proposed to add a TEOM monitor at the Texarkana site (AQS 480370004) to meet sampling frequency requirements. Due to logistical issues, the TCEQ was unable to add the TEOM monitor. In January 2014, the $PM_{2.5}$ FRM sampler began sampling once every third day to meet sample frequency requirements, eliminating the need to deploy the TEOM.

Volatile Organic Compounds (VOC)

Automated Gas Chromatographs (AutoGCs)

Title 40 CFR Part 58, Appendix D, 5.3, requires speciated VOC monitoring at two sites per O_3 nonattainment area. AutoGC monitoring includes the continuous analysis of ambient air samples for up to 46 individual compounds on an hourly basis. The TCEQ owns and operates eight AutoGCs as part of the PAMS network. These AutoGCs are sited throughout the state to aid in characterizing specific regional and local ambient air conditions in the state.

Under the U.S./Mexico Border grant, the TCEQ also operated a special purpose AutoGC at the El Paso Delta site (AQS 481411011) to characterize maximum precursor emissions impact. The El Paso Delta site (AQS 481411011) was decommissioned in August 2013.

Canisters

Canisters collect discrete samples over a 24-hour period that are analyzed for 86 individual VOCs. Several PAMS canister monitors were approved by the EPA for decommissioning in the 2012 annual monitoring network plan because the monitors were beyond minimum requirements. As stated in the 2013 annual monitoring network plan, the Italy (AQS 481391044) canister sampler was retained to provide information regarding regional transport of VOCs into the Dallas/Fort Worth areas. The following canister samplers were decommissioned in May 2013.

- Ascarate Park SE (AQS 481410055)
- Galveston 99th Street (AQS 481671034)
- Houston Aldine (AQS 482010024)
- Northwest Harris County (AQS 482010029)
- Kaufman (AQS 482570005)
- Conroe Relocated (AQS 483390078)

Status of Changes Proposed in 2012

- Dona Park (AQS 483550034) - The TCEQ relocated the $PM_{2.5}$ TEOM monitor from Corpus Christi West (AQS 483550025) to this site in June 2013 to meet sampling frequency requirements. This change was approved by EPA in their response letter to the 2012 annual monitoring network plan dated January 2, 2013.

- Austin Audubon Society (AQS 484530020) - The TCEQ discontinued the speciated $PM_{2.5}$ analysis in May 2013 but continued the gravimetric FRM analysis to meet federal requirements. This change was approved by EPA in their response letter to the 2012 annual monitoring network plan dated January 2, 2013.

- Baytown (AQS 482010058) - The TCEQ relocated the $PM_{2.5}$ TEOM monitor from Channelview (AQS 482010026) to this site in June 2013 to meet sampling frequency requirements. This change was approved by EPA in their response letter to the 2012 annual monitoring network plan dated January 2, 2013.

- Isla Blanca Park (AQS 480612004) - The TCEQ replaced the $PM_{2.5}$ speciation monitor at this site with a continuous $PM_{2.5}$ TEOM monitor in June 2013. This change was approved by EPA in their response letter to the 2012 annual monitoring network plan dated January 2, 2013.

Status of Changes Proposed in 2013

- Dew Point Monitors – The TCEQ proposed to re-designate all dew point monitors in the TCEQ network as SPM in the 2013 annual monitoring network plan. These monitors were previously used to meet humidity reporting requirements for the PAMS network but are now beyond minimum requirements. The TCEQ reports data measured by relative humidity sensors to meet this PAMS requirement. This proposal is pending EPA approval.

Additional Changes in 2014

- Wichita Falls (AQS 48450315) - The $PM_{2.5}$ TEOM monitor at this site was decommissioned in February 2014. This monitor was beyond minimum requirements. This change was approved by EPA via email in March 2014.

- Baytown Eastpoint (AQS 482011017) – The Baytown Eastpoint site was temporarily decommissioned in September 2013 at the request of the property owner. In February 2014, the site was redeployed at a new location on Garth Road within one mile of the original location. Due to the close proximity, the AQS number remained the same, but the site name was changed to Baytown Garth to reflect the new location. This change was approved by EPA via email in September 2013.

- SETRPC 40 Sabine Pass (AQS 482450101) NO_y – TCEQ proposes to decommission this NO_y monitor. The Beaumont-Port Arthur area was re-designated as a maintenance area on October 20, 2010. As a result, this monitor is beyond minimum requirements and is no longer needed to meet PAMS monitoring requirements.

- Fort Worth Northwest (AQS 484391002) carbonyl monitor – Title 40 CFR Part 58, Appendix D, Table D-6, requires one carbonyl monitor at a PAMS Type 2 site per O_3 nonattainment area. TCEQ meets this requirement for the Dallas-Fort Worth-Arlington CBSA through the operation of the carbonyl monitor at the Dallas Hinton (AQS 481130069) site. As a result, TCEQ proposes to re-designate the Fort Worth Northwest (AQS 484391002) carbonyl monitor from PAMS to SPM. This monitor is beyond minimum requirements and is not needed to meet PAMS monitoring requirements.

- Ascarate Park SE (AQS 481410055) carbonyl monitor - The TCEQ proposes to re-designate this monitor from PAMS to SPM. The El Paso area was re-designated as a maintenance area on January 15, 2009. As a result, this monitor is beyond minimum requirements and no longer needed to meet PAMS monitoring requirements.

- El Paso UTEP (AQS 481410037) radar profiler - TCEQ proposes to re-designate this monitor from PAMS to SPM. The El Paso area was re-designated as a maintenance area on January 15, 2009. As a result, this monitor is beyond minimum requirements and no longer needed to meet PAMS monitoring requirements.

- Due to recent public comments, TCEQ commits to further evaluate the El Paso network in advance of the 2015 annual monitoring network plan.

Instructions for Comments

Any comments pertaining to this document should be sent to the following contact:

Texas Commission on Environmental Quality
P.O. Box 13087
Attention: Stephanie Ma, MC-165
Austin, Texas 78711-3087

Or email at: monops@tceq.texas.gov

Appendix A

TCEQ State and Local Air Monitoring Stations (SLAMS), Photochemical Assessment Monitoring Stations (PAMS), Chemical Speciation Network (CSN), National Air Toxics Trends Stations (NATTS), National Core (NCore), and Federally Funded Special Purpose Monitors (SPM) Networks

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
480271045	Temple Georgia	8406 Georgia Avenue, Temple	Killeen-Temple-Fort Hood, TX	31.12242	-97.4311	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	New in 2014
480271045	Temple Georgia	8406 Georgia Avenue, Temple	Killeen-Temple-Fort Hood, TX	31.12242	-97.4311	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	New in 2014
480271045	Temple Georgia	8406 Georgia Avenue, Temple	Killeen-Temple-Fort Hood, TX	31.12242	-97.4311	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	New in 2014
480271047	Killeen Skylark Field	1605 Stone Tree Drive, Killeen	Killeen-Temple-Fort Hood, TX	31.08800	-97.67973	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Urban Scale	NA	NA	
480271047	Killeen Skylark Field	1605 Stone Tree Drive, Killeen	Killeen-Temple-Fort Hood, TX	31.08800	-97.67973	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Regional Transport	Urban Scale	Yes	NA	
480271047	Killeen Skylark Field	1605 Stone Tree Drive, Killeen	Killeen-Temple-Fort Hood, TX	31.08800	-97.67973	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Urban Scale	NA	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Urban Scale	NA	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Area-Wide; Population Exposure	Neighborhood	Yes	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	O3	SLAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Urban Scale	Yes	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
480290032	San Antonio Northwest	6655 Bluebird Lane, San Antonio	San Antonio, TX	29.51509	-98.62017	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Urban Scale	NA	NA	
480290052	Camp Bullis	Camp Bullis Firing Range, Near Wilderness Road, San Antonio	San Antonio, TX	29.63206	-98.56494	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Urban Scale	NA	NA	
480290052	Camp Bullis	Camp Bullis Firing Range, Near Wilderness Road, San Antonio	San Antonio, TX	29.63206	-98.56494	Rural	O3	SLAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Urban Scale	Yes	NA	
480290052	Camp Bullis	Camp Bullis Firing Range, Near Wilderness Road, San Antonio	San Antonio, TX	29.63206	-98.56494	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Urban Scale	NA	NA	
480290052	Camp Bullis	Camp Bullis Firing Range, Near Wilderness Road, San Antonio	San Antonio, TX	29.63206	-98.56494	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Urban Scale	NA	NA	
480290053	Selma	16289 North Evans Road #2, Selma	San Antonio, TX	29.58773	-98.31248	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
480290053	Selma	16289 North Evans Road #2, Selma	San Antonio, TX	29.58773	-98.31248	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
480290055	CPS Pecan Valley	802 Pecan Valley Drive, San Antonio	San Antonio, TX	29.40722	-98.43111	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Urban Scale	NA	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Source Oriented; Upwind Background	Urban Scale	Yes	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	O3	SLAMS	UV Photometric	Continuous	Source Oriented; Upwind Background	Urban Scale	Yes	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure; Upwind Background	Urban Scale	Yes	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480290059	Calaveras Lake	14620 Laguna Road, San Antonio	San Antonio, TX	29.27538	-98.31169	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Source Oriented	Urban Scale	NA	NA	
480290060	Frank Wing Municipal Court	401 South Frio Street, San Antonio	San Antonio, TX	29.42218	-98.50538	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
480290676	Palo Alto	9011 Poteet Jourdanton Highway, San Antonio	San Antonio, TX	29.33280	-98.55140	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
480290676	Palo Alto	9011 Poteet Jourdanton Highway, San Antonio	San Antonio, TX	29.33280	-98.55140	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
480290676	Palo Alto	9011 Poteet Jourdanton Highway, San Antonio	San Antonio, TX	29.33280	-98.55140	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
480290677	Old Hwy 90	911 Old Highway 90 West, San Antonio	San Antonio, TX	29.42393	-98.58051	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	San Antonio, TX	29.5294	-98.3914	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Microscale	NA	NA	New in 2014
480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	San Antonio, TX	29.5294	-98.3914	Urban/ Center City	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
480291069	San Antonio Interstate 35	9904 IH 35 N, San Antonio	San Antonio, TX	29.5294	-98.3914	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Microscale	NA	NA	New in 2014

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
480370004	Texarkana	2315 W 10th Street, Texarkana	Texarkana, TX-Texarkana, AR	33.42576	-94.07080	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Population Exposure	Urban Scale	Yes	NA	Updated Operating Schedule
480391004	Manvel Croix Park	4503 Croix Parkway, Manvel	Houston-Sugar Land-Baytown, TX	29.52044	-95.39251	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
480391004	Manvel Croix Park	4503 Croix Parkway, Manvel	Houston-Sugar Land-Baytown, TX	29.52044	-95.39251	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Urban Scale	Yes	NA	
480391004	Manvel Croix Park	4503 Croix Parkway, Manvel	Houston-Sugar Land-Baytown, TX	29.52044	-95.39251	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
480391004	Manvel Croix Park	4503 Croix Parkway, Manvel	Houston-Sugar Land-Baytown, TX	29.52044	-95.39251	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
480391016	Lake Jackson	109B Brazoria Highway 332 West, Lake Jackson	Houston-Sugar Land-Baytown, TX	29.04376	-95.47295	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Middle Scale	NA	NA	
480391016	Lake Jackson	109B Brazoria Highway 332 West, Lake Jackson	Houston-Sugar Land-Baytown, TX	29.04376	-95.47295	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480391016	Lake Jackson	109B Brazoria Highway 332 West, Lake Jackson	Houston-Sugar Land-Baytown, TX	29.04376	-95.47295	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480391016	Lake Jackson	109B Brazoria Highway 332 West, Lake Jackson	Houston-Sugar Land-Baytown, TX	29.04376	-95.47295	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Middle Scale	NA	NA	
480391016	Lake Jackson	109B Brazoria Highway 332 West, Lake Jackson	Houston-Sugar Land-Baytown, TX	29.04376	-95.47295	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Middle Scale	NA	NA	
480430101	Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	None	29.30255	-103.17791	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Microscale	NA	NA	
480430101	Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	None	29.30255	-103.17791	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
480430101	Bravo Big Bend	Big Bend National Park, Big Bend Nat Park	None	29.30255	-103.17791	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Microscale	NA	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Urban Scale	NA	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	Barometric Pressure	SPM	Derived from NWS site KBRO	24 Hour Avg; 1/6 Days	Population Exposure	Urban Scale	NA	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	CO	SPM	Gas Filter Correlation	Continuous	Highest Concentration	Neighborhood	Yes	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	TBD	TBD	Yes	NA	New in 2014
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	SVOC	SPM	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	Population Exposure; Upwind Background	Middle Scale	NA	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	
480610006	Brownsville	344 Porter Drive, Brownsville	Brownsville-Harlingen, TX	25.89250	-97.49384	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
480611023	Harlingen Teege	1602 W Teege Avenue, Harlingen	Brownsville-Harlingen, TX	26.20026	-97.71268	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
480611023	Harlingen Teege	1602 W Teege Avenue, Harlingen	Brownsville-Harlingen, TX	26.20026	-97.71268	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
480611023	Harlingen Teege	1602 W Teege Avenue, Harlingen	Brownsville-Harlingen, TX	26.20026	-97.71268	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
480612004	Isla Blanca Park	Lot B 69 1/2, South Padre Island	Brownsville-Harlingen, TX	26.06961	-97.16221	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Regional Transport	Regional Scale	NA	NA	
480612004	Isla Blanca Park	Lot B 69 1/2, South Padre Island	Brownsville-Harlingen, TX	26.06961	-97.16221	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure; Regional Transport	Urban Scale	Yes	NA	New in 2014
480612004	Isla Blanca Park	Lot B 69 1/2, South Padre Island	Brownsville-Harlingen, TX	26.06961	-97.16221	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Regional Transport	Regional Scale	NA	NA	
480710013	Smith Point Hawkins Camp	1850 Hawkins Camp Road, Anahuac	Houston-Sugar Land-Baytown, TX	29.54624	-94.78697	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Neighborhood	NA	NA	
480710013	Smith Point Hawkins Camp	1850 Hawkins Camp Road, Anahuac	Houston-Sugar Land-Baytown, TX	29.54624	-94.78697	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Source Oriented	Neighborhood	NA	NA	
480850003	Frisco 5th St	7471 South 5th Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14234	-96.82468	Suburban	Ambient Temperature	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	NA	NA	
480850003	Frisco 5th St	7471 South 5th Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14234	-96.82468	Suburban	Barometric Pressure	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	NA	NA	
480850003	Frisco 5th St	7471 South 5th Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14234	-96.82468	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	Yes	NA	
480850005	Frisco	6590 Hillcrest Road, Frisco	Dallas-Fort Worth-Arlington, TX	33.13242	-96.78640	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Urban Scale	NA	NA	
480850005	Frisco	6590 Hillcrest Road, Frisco	Dallas-Fort Worth-Arlington, TX	33.13242	-96.78640	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
480850005	Frisco	6590 Hillcrest Road, Frisco	Dallas-Fort Worth-Arlington, TX	33.13242	-96.78640	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Urban Scale	NA	NA	
480850005	Frisco	6590 Hillcrest Road, Frisco	Dallas-Fort Worth-Arlington, TX	33.13242	-96.78640	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Urban Scale	NA	NA	
480850007	Frisco 7	6931 Ash Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14741	-96.82577	Suburban	Ambient Temperature	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	NA	NA	
480850007	Frisco 7	6931 Ash Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14741	-96.82577	Suburban	Barometric Pressure	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	NA	NA	
480850007	Frisco 7	6931 Ash Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14741	-96.82577	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480850007	Frisco 7	6931 Ash Street, Frisco	Dallas-Fort Worth-Arlington, TX	33.14741	-96.82577	Suburban	TSP (Lead)	SLAMS, QC Collocated	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480850009	Frisco Eubanks	6601 Eubanks, Frisco	Dallas-Fort Worth-Arlington, TX	33.14466	-96.82881	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure; Source Oriented	Neighborhood	NA	NA	
480850009	Frisco Eubanks	6601 Eubanks, Frisco	Dallas-Fort Worth-Arlington, TX	33.14466	-96.82881	Suburban	Barometric Pressure	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	NA	NA	
480850009	Frisco Eubanks	6601 Eubanks, Frisco	Dallas-Fort Worth-Arlington, TX	33.14466	-96.82881	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480850009	Frisco Eubanks	6601 Eubanks, Frisco	Dallas-Fort Worth-Arlington, TX	33.14466	-96.82881	Suburban	TSP (Lead)	SLAMS, QC Collocated	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
480850009	Frisco Eubanks	6601 Eubanks, Frisco	Dallas-Fort Worth-Arlington, TX	33.14466	-96.82881	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
480850029	Frisco Stonebrook	7202 Stonebrook Parkway, Frisco	Dallas-Fort Worth-Arlington, TX	33.13602	-96.82447	Urban/ Center City	Ambient Temperature	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
480850029	Frisco Stonebrook	7202 Stonebrook Parkway, Frisco	Dallas-Fort Worth-Arlington, TX	33.13602	-96.82447	Urban/ Center City	Barometric Pressure	SPM	Derived from other AQS site 484393009	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
480850029	Frisco Stonebrook	7202 Stonebrook Parkway, Frisco	Dallas-Fort Worth-Arlington, TX	33.13602	-96.82447	Urban/ Center City	TSP (Lead)	SPM	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481130018	Morrell	3049 Morrell, Dallas	Dallas-Fort Worth-Arlington, TX	32.74498	-96.78188	Urban/ Center City	PM10 (Speciation)	SPM	HiVol/ICP-AES	24 Hours; 1/6 Days	Source Oriented	Neighborhood	NA	NA	Updated Sampler Type. Analyzed for Ni and Cr only
481130050	Convention Center	717 South Akard, Dallas	Dallas-Fort Worth-Arlington, TX	32.77426	-96.79769	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
481130050	Convention Center	717 South Akard, Dallas	Dallas-Fort Worth-Arlington, TX	32.77426	-96.79769	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481130050	Convention Center	717 South Akard, Dallas	Dallas-Fort Worth-Arlington, TX	32.77426	-96.79769	Urban/ Center City	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481130050	Convention Center	717 South Akard, Dallas	Dallas-Fort Worth-Arlington, TX	32.77426	-96.79769	Urban/ Center City	PM2.5 (Speciation)	SLAMS	Sequential FRM/ Gravimetric/Elements, Carbons, Ions	24 Hours; 1/3 Days	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
481130050	Convention Center	717 South Akard, Dallas	Dallas-Fort Worth-Arlington, TX	32.77426	-96.79769	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
481130061	Earhart	3434 Bickers (Earhart Elementary School), Dallas	Dallas-Fort Worth-Arlington, TX	32.78536	-96.87657	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Barometric Pressure	SPM	Derived from NWS site KDAL	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Carbonyl	PAMS	DNPH Silica/HPLC	24 Hours; 1/6 Days; 8 3-Hours; 1/3 Days (Jun. - Aug.)	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	CO (High Sensitivity)	PAMS/NCore	Gas Filter Correlation	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Neighborhood	NA	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Area -Wide; Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	NOy (High Sensitivity)	NCore	Chemiluminescence	Continuous	Highest Concentration	Neighborhood	NA	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	O3	PAMS/NCore	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM Coarse (PM10-2.5)	NCore	Beta Attenuation	Continuous	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM Coarse (PM2.5)	NCore	Beta Attenuation	Continuous	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; Daily	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM2.5 (FRM)	SLAMS, QC Collocated	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM2.5 (Speciation)	CSN	Sequential Non-FRM/ Elements, Ions	24 Hours; 1/3 Days	Population Exposure	Neighborhood	No	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Neighborhood	No	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	SO2 (High Sensitivity)	NCore	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Speciated VOC (Canister)*	PAMS*	Canister/GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	TNMOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	NA	2	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	TSP (Lead)	NCore	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Visibility	SPM	Visibility Sensor	Continuous	Population Exposure	Neighborhood	NA	NA	
481130069	Dallas Hinton	1415 Hinton Street, Dallas	Dallas-Fort Worth-Arlington, TX	32.82006	-96.86012	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
481130075	Dallas North #2	12532 1/2 Nuestra Drive, Dallas	Dallas-Fort Worth-Arlington, TX	32.91921	-96.80850	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
481130087	Dallas Redbird Airport Executive	3277 W Redbird Lane, Dallas	Dallas-Fort Worth-Arlington, TX	32.67645	-96.87206	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
481130087	Dallas Redbird Airport Executive	3277 W Redbird Lane, Dallas	Dallas-Fort Worth-Arlington, TX	32.67645	-96.87206	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481130087	Dallas Redbird Airport Executive	3277 W Redbird Lane, Dallas	Dallas-Fort Worth-Arlington, TX	32.67645	-96.87206	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
481130087	Dallas Redbird Airport Executive	3277 W Redbird Lane, Dallas	Dallas-Fort Worth-Arlington, TX	32.67645	-96.87206	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
481131067	Dallas LBJ Freeway	8652 LBJ Freeway, Dallas	Dallas-Fort Worth-Arlington, TX	32.92118	-96.75355	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
481131067	Dallas LBJ Freeway	8652 LBJ Freeway, Dallas	Dallas-Fort Worth-Arlington, TX	32.92118	-96.75355	Urban/ Center City	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
481131067	Dallas LBJ Freeway	8652 LBJ Freeway, Dallas	Dallas-Fort Worth-Arlington, TX	32.92118	-96.75355	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Urban Scale	NA	NA	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Urban Scale	Yes	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	NOy (High Sensitivity)	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Urban Scale	Yes	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Precipitation	PAMS	Rain Gauge	Continuous	Max Ozone Concentration	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Speciated VOC (Canister)*	PAMS*	Canister/GC/MS	24 Hours; 1/6 Days	Max Ozone Concentration; Population Exposure	Urban Scale	NA	3	
481210034	Denton Airport South	Denton Airport South, Denton	Dallas-Fort Worth-Arlington, TX	33.21906	-97.19629	Rural	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration	Urban Scale	NA	3	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
481211032	Pilot Point	792 E Northside Drive, Pilot Point	Dallas-Fort Worth-Arlington, TX	33.41064	-96.94460	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Upwind Background	Regional Scale	NA	NA	
481211032	Pilot Point	792 E Northside Drive, Pilot Point	Dallas-Fort Worth-Arlington, TX	33.41064	-96.94460	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
481211032	Pilot Point	792 E Northside Drive, Pilot Point	Dallas-Fort Worth-Arlington, TX	33.41064	-96.94460	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Upwind Background	Regional Scale	NA	NA	
481211032	Pilot Point	792 E Northside Drive, Pilot Point	Dallas-Fort Worth-Arlington, TX	33.41064	-96.94460	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Upwind Background	Regional Scale	NA	NA	
481350003	Odessa-Hays Elementary School	Barrett & Monahans Streets, Odessa	Odessa, TX	31.83657	-102.34204	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
481351014	Odessa Gonzales	2700 Disney, Odessa	Odessa, TX	31.87025	-102.33476	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Neighborhood	No	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Source Oriented	Neighborhood	Yes	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	PM2.5 (Speciation)	Supplemental Speciation	Sequential FRM/ Gravimetric/Elements, Carbons, Ions	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Source Oriented	Neighborhood	Yes	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
481390016	Midlothian OFW	2725 Old Fort Worth Road, Midlothian	Dallas-Fort Worth-Arlington, TX	32.48208	-97.02692	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Upwind Background	Urban Scale	NA	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Dew Point	SPM	Derived at Site	Continuous	Upwind Background	Urban Scale	NA	NA	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Upwind Background	Urban Scale	Yes	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	O3	PAMS	UV Photometric	Continuous	Upwind Background	Urban Scale	Yes	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Upwind Background	Urban Scale	No	NA	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Relative Humidity	PAMS	Humidity Sensor	Continuous	Upwind Background	Urban Scale	NA	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	SO2	SPM	Pulsed Fluorescence	Continuous	Upwind Background	Urban Scale	Yes	NA	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Solar Radiation	PAMS	Photovoltaic	Continuous	Upwind Background	Urban Scale	NA	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Speciated VOC (Canister)*	PAMS*	Canister/GC/MS	24 Hours; 1/6 Days	Upwind Background	Urban Scale	NA	1	
481391044	Italy	900 FM 667 Ellis County, Italy	Dallas-Fort Worth-Arlington, TX	32.17543	-96.87018	Rural	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Upwind Background	Urban Scale	NA	1	
481410029	Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	El Paso, TX	31.78577	-106.32358	Suburban	O3	SPM	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
481410029	Ivanhoe	10834 Ivanhoe (Ivanhoe Fire Station), El Paso	El Paso, TX	31.78577	-106.32358	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Barometric Pressure	SPM	Derived On-Site	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	NA	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Neighborhood	No	NA	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Precipitation	PAMS	Rain Gauge	Continuous	Max Ozone Concentration	Neighborhood	NA	3	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Radar Profiler	PAMS	Doppler Radar	24 1-Hour Averages, Daily	Regional Transport	Regional Scale	NA	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	TSP (Lead)	SLAMS	HiVol/ICP-AES	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	Updated analytical method
481410037	El Paso UTEP	250 Rim Road, El Paso	El Paso, TX	31.76829	-106.50126	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
481410038	Riverside	301 Midway Drive (Riverside High School), El Paso	El Paso, TX	31.73380	-106.37210	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	CO (High Sensitivity)	NCore	Gas Filter Correlation	Continuous	Highest Concentration	Neighborhood	Yes	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	NA	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	Yes	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	NOy (High Sensitivity)	NCore	Chemiluminescence	Continuous	Highest Concentration	Neighborhood	NA	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	O3	PAMS/NCore	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	PM Coarse (PM10-2.5)	NCore	Beta Attenuation	Continuous	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	PM Coarse (PM2.5)	NCore	Beta Attenuation	Continuous	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	PM2.5 (FRM)	NCore	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	Updated Operating Schedule and QAPP/Monitor Type
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	PM2.5 (Speciation)	CSN	Sequential Non-FRM/ Elements, Ions	24 Hours; 1/3 Days	Highest Concentration	Neighborhood	No	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	SO2 (High Sensitivity)	NCore	Pulsed Fluorescence	Continuous	Highest Concentration	Neighborhood	Yes	NA	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	NA	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	TNMOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Max Precursor Emissions Impact	Neighborhood	NA	2	
481410044	El Paso Chamizal	800 S San Marcial Street, El Paso	El Paso, TX	31.76570	-106.45522	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Barometric Pressure	PAMS	Barometer	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Carbonyl*	PAMS*	DNPH Silica/HPLC	24 Hours; 1/6 Days	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Highest Concentration	Neighborhood	Yes	NA	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Dew Point	SPM	Derived at Site	Continuous	Highest Concentration; Upwind Background	Urban Scale	NA	NA	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	RA-40; Highest Concentration; Upwind Background	Neighborhood	Yes	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	Yes	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	TSP (Lead)	NCore	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Visibility	SPM	Visibility Sensor	Continuous	Highest Concentration; Population Exposure	Urban Scale	NA	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
481410055	Ascarate Park SE	650 R E Thomason Loop, El Paso	El Paso, TX	31.74674	-106.40278	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration; Upwind Background	Neighborhood	NA	1; 3	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	General/Background; Population Exposure	Neighborhood	Yes	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	SVOC	SPM	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
481410057	Socorro Hueco	320 Old Hueco Tanks Road, El Paso	El Paso, TX	31.66750	106.28800	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	Barometric Pressure	SPM	Derived from NWS site KELP	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-AES	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014. Updated analytical method
481410058	Skyline Park	5050A Yvette Drive, El Paso	El Paso, TX	31.89391	-106.42581	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
481410693	Van Buren	2700 Harrison Avenue, El Paso	El Paso, TX	31.81337	-106.46452	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
481410693	Van Buren	2700 Harrison Avenue, El Paso	El Paso, TX	31.81337	-106.46452	Urban/ Center City	PM10 (FRM)	SPM	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
481410693	Van Buren	2700 Harrison Avenue, El Paso	El Paso, TX	31.81337	-106.46452	Urban/ Center City	Relative Humidity	SPM	Humidity Sensor	Continuous	Population Exposure	Neighborhood	NA	NA	
481410693	Van Buren	2700 Harrison Avenue, El Paso	El Paso, TX	31.81337	-106.46452	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	Ambient Temperature	SPM	Derived from NWS site KELP	24 Hour Avg; 1/6 Days	Highest Concentration	Neighborhood	NA	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	Barometric Pressure	SPM	Derived from NWS site KELP	24 Hour Avg; 1/6 Days	Highest Concentration	Neighborhood	NA	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration	Neighborhood	Yes	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration	Neighborhood	Yes	NA	
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-AES	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	Updated analytical method
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	TSP (Lead)	SLAMS, QC Collocated	HiVol/ICP-AES	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	Updated analytical method
481411021	Ojo De Agua	6767 Ojo De Agua, El Paso	El Paso, TX	31.86244	-106.54756	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
481490001	Fayette County	636 Roznov Road, Round Top	Austin-Round Rock, TX	29.96247	-96.74587	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport; Source Oriented	Regional Scale	No	NA	
481670004	Texas City Fire Station	2516 Texas Avenue, Texas City	Houston-Sugar Land-Baytown, TX	29.38444	-94.93083	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration	Neighborhood	Yes	NA	
481670004	Texas City Fire Station	2516 Texas Avenue, Texas City	Houston-Sugar Land-Baytown, TX	29.38444	-94.93083	Urban/ Center City	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration	Neighborhood	Yes	NA	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration; Upwind Background	Urban Scale	NA	1; 3	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	Dew Point	SPM	Derived at Site	Continuous	General/Background; Upwind Background	Middle Scale	NA	NA	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	General/Background; Upwind Background	Urban Scale	Yes	1; 3	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Upwind Background	Urban Scale	Yes	1; 3	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	PM2.5 (Speciation)	SPM	Sequential FRM/ Gravimetric/Elements, Carbons, Ions, Sugars	24 Hours; 1/6 Days; 24 Hours; Daily (Apr. - Aug FRM Only)	Regional Transport	Regional Scale	Yes	NA	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration; Upwind Background	Urban Scale	NA	1; 3	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration; Upwind Background	Urban Scale	NA	1; 3	
481671034	Galveston 99th Street	9511 Avenue V 1/2, Galveston	Houston-Sugar Land-Baytown, TX	29.25447	-94.86129	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration; Upwind Background	Urban Scale	NA	1; 3	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	NO/NO2/ NOx	SPM	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	Precipitation	SPM	Rain Gauge	Continuous	General Background	Neighborhood	NA	NA	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	SO2	SLAMS	Pulsed Fluorescence	Continuous	General/Background; Population Exposure	Neighborhood	Yes	NA	Updated QAPP/Monitor Type
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
481830001	Longview	Gregg County Airport near Longview	Longview, TX	32.37868	-94.71181	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Barometric Pressure	PAMS	Barometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Urban Scale	NA	NA	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	NOy (High Sensitivity)	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	NA	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	PM2.5 (Speciation)	SLAMS	Sequential FRM/ Gravimetric/Elements, Carbons, Ions	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482010024	Houston Aldine	4510 1/2 Aldine Mail Road, Houston	Houston-Sugar Land-Baytown, TX	29.90104	-95.32612	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Dew Point	SPM	Derived at Site	Continuous	Highest Concentration	Neighborhood	NA	NA	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	O3	PAMS	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Population Exposure	Neighborhood	NA	2	
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	TNMOC (AutoGC)	PAMS	GC	Continuous	Population Exposure	Neighborhood	NA	2	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482010026	Channelview	1405 Sheldon Road, Channelview	Houston-Sugar Land-Baytown, TX	29.80271	-95.12549	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Extreme Downwind; Upwind Background	Urban Scale	NA	1; 4	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	Dew Point	SPM	Derived at Site	Continuous	Source Oriented	Microscale	NA	NA	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Extreme Downwind; Population Exposure; Upwind Background	Urban Scale	Yes	1; 4	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	O3	PAMS	UV Photometric	Continuous	Extreme Downwind; Population Exposure; Upwind Background	Urban Scale	Yes	1; 4	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	Relative Humidity	PAMS	Humidity Sensor	Continuous	Extreme Downwind; Upwind Background	Urban Scale	NA	1; 4	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	Solar Radiation	PAMS	Photovoltaic	Continuous	Extreme Downwind; Upwind Background	Urban Scale	NA	1; 4	
482010029	Northwest Harris County	16822 Kitzman, Tomball	Houston-Sugar Land-Baytown, TX	30.03953	-95.67390	Rural	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Extreme Downwind; Upwind Background	Urban Scale	NA	1; 4	
482010046	Houston North Wayside	7330 1/2 North Wayside, Houston	Houston-Sugar Land-Baytown, TX	29.82809	-95.28410	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010046	Houston North Wayside	7330 1/2 North Wayside, Houston	Houston-Sugar Land-Baytown, TX	29.82809	-95.28410	Suburban	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010047	Lang	4401 1/2 Lang Road, Houston	Houston-Sugar Land-Baytown, TX	29.83417	-95.48917	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Middle Scale	Yes	NA	To be decomissioned in 2014
482010047	Lang	4401 1/2 Lang Road, Houston	Houston-Sugar Land-Baytown, TX	29.83417	-95.48917	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Middle Scale	Yes	NA	
482010047	Lang	4401 1/2 Lang Road, Houston	Houston-Sugar Land-Baytown, TX	29.83417	-95.48917	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Middle Scale	Yes	NA	
482010047	Lang	4401 1/2 Lang Road, Houston	Houston-Sugar Land-Baytown, TX	29.83417	-95.48917	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010051	Houston Croquet	13826 1/2 Croquet, Houston	Houston-Sugar Land-Baytown, TX	29.62389	-95.47417	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
482010051	Houston Croquet	13826 1/2 Croquet, Houston	Houston-Sugar Land-Baytown, TX	29.62389	-95.47417	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010051	Houston Croquet	13826 1/2 Croquet, Houston	Houston-Sugar Land-Baytown, TX	29.62389	-95.47417	Suburban	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010051	Houston Croquet	13826 1/2 Croquet, Houston	Houston-Sugar Land-Baytown, TX	29.62389	-95.47417	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
482010055	Houston Bayland Park	6400 Bissonnet Street, Houston	Houston-Sugar Land-Baytown, TX	29.69574	-95.49926	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background; Max Precursor Emissions Impact	Middle Scale	NA	NA	
482010055	Houston Bayland Park	6400 Bissonnet Street, Houston	Houston-Sugar Land-Baytown, TX	29.69574	-95.49926	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010055	Houston Bayland Park	6400 Bissonnet Street, Houston	Houston-Sugar Land-Baytown, TX	29.69574	-95.49926	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010055	Houston Bayland Park	6400 Bissonnet Street, Houston	Houston-Sugar Land-Baytown, TX	29.69574	-95.49926	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background; Max Precursor Emissions Impact	Middle Scale	NA	NA	
482010055	Houston Bayland Park	6400 Bissonnet Street, Houston	Houston-Sugar Land-Baytown, TX	29.69574	-95.49926	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background; Max Precursor Emissions Impact	Middle Scale	NA	NA	
482010058	Baytown	7210 1/2 Bayway Drive, Baytown	Houston-Sugar Land-Baytown, TX	29.77070	-95.03123	Suburban	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010058	Baytown	7210 1/2 Bayway Drive, Baytown	Houston-Sugar Land-Baytown, TX	29.77070	-95.03123	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Neighborhood	No	NA	Relocated from Channelview
482010060	Houston Kirkpatrick	5565 Kirkpatrick, Houston	Houston-Sugar Land-Baytown, TX	29.80741	-95.29362	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
482010060	Houston Kirkpatrick	5565 Kirkpatrick, Houston	Houston-Sugar Land-Baytown, TX	29.80741	-95.29362	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
482010062	Houston Monroe	9726 1/2 Monroe, Houston	Houston-Sugar Land-Baytown, TX	29.62556	-95.26722	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010062	Houston Monroe	9726 1/2 Monroe, Houston	Houston-Sugar Land-Baytown, TX	29.62556	-95.26722	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010062	Houston Monroe	9726 1/2 Monroe, Houston	Houston-Sugar Land-Baytown, TX	29.62556	-95.26722	Suburban	Precipitation	SPM	Rain Gauge	Continuous	General/Background	Neighborhood	NA	NA	
482010062	Houston Monroe	9726 1/2 Monroe, Houston	Houston-Sugar Land-Baytown, TX	29.62556	-95.26722	Suburban	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010066	Houston Westhollow	3333 1/2 Highway 6 South, Houston	Houston-Sugar Land-Baytown, TX	29.72333	-95.63583	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
482010066	Houston Westhollow	3333 1/2 Highway 6 South, Houston	Houston-Sugar Land-Baytown, TX	29.72333	-95.63583	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010066	Houston Westhollow	3333 1/2 Highway 6 South, Houston	Houston-Sugar Land-Baytown, TX	29.72333	-95.63583	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010066	Houston Westhollow	3333 1/2 Highway 6 South, Houston	Houston-Sugar Land-Baytown, TX	29.72333	-95.63583	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482010071	Pasadena HL&P	1001 1/2 Red Bluff, Pasadena	Houston-Sugar Land-Baytown, TX	29.71648	-95.20133	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482010075	Houston Texas Avenue	2311 Texas Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.75278	-95.35028	Urban/ Center City	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Middle Scale	Yes	NA	To be decomissioned in 2014
482010075	Houston Texas Avenue	2311 Texas Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.75278	-95.35028	Urban/ Center City	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010075	Houston Texas Avenue	2311 Texas Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.75278	-95.35028	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Barometric Pressure	SPM	Barometer	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	CO	SPM	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	NO/NO2/ NOx	SPM	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	O3	SPM	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Precipitation	SPM	Rain Gauge	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Relative Humidity	SPM	Humidity Sensor	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Solar Radiation	SPM	Photovoltaic	Continuous	General Background	Neighborhood	NA	NA	
482010416	Park Place	7421 Park Place Boulevard, Houston	Houston-Sugar Land-Baytown, TX	29.68639	-95.29472	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General Background	Neighborhood	NA	NA	
482011015	Lynchburg Ferry	4407 Independence Parkway South, Baytown	Houston-Sugar Land-Baytown, TX	29.76165	-95.08139	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	NA	
482011015	Lynchburg Ferry	4407 Independence Parkway South, Baytown	Houston-Sugar Land-Baytown, TX	29.76165	-95.08139	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Source Oriented	Neighborhood	Yes	NA	
482011015	Lynchburg Ferry	4407 Independence Parkway South, Baytown	Houston-Sugar Land-Baytown, TX	29.76165	-95.08139	Suburban	O3	SLAMS	UV Photometric	Continuous	Source Oriented	Neighborhood	Yes	NA	
482011015	Lynchburg Ferry	4407 Independence Parkway South, Baytown	Houston-Sugar Land-Baytown, TX	29.76165	-95.08139	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	NA	
482011015	Lynchburg Ferry	4407 Independence Parkway South, Baytown	Houston-Sugar Land-Baytown, TX	29.76165	-95.08139	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
482011017	Baytown Garth	8622 Garth Road Unit A, Baytown	Houston-Sugar Land-Baytown, TX	29.82332	-94.98380	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	Relocated from Baytown Eastpoint
482011017	Baytown Garth	8622 Garth Road Unit A, Baytown	Houston-Sugar Land-Baytown, TX	29.82332	-94.98380	Suburban	O3	SLAMS	UV Photometric	Continuous	Max Ozone Concentration	Neighborhood	Yes	NA	Relocated from Baytown Eastpoint
482011017	Baytown Garth	8622 Garth Road Unit A, Baytown	Houston-Sugar Land-Baytown, TX	29.82332	-94.98380	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	Relocated from Baytown Eastpoint
482011017	Baytown Garth	8622 Garth Road Unit A, Baytown	Houston-Sugar Land-Baytown, TX	29.82332	-94.98380	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure	Neighborhood	NA	NA	Relocated from Baytown Eastpoint
482011017	Baytown Garth	8622 Garth Road Unit A, Baytown	Houston-Sugar Land-Baytown, TX	29.82332	-94.98380	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	Relocated from Baytown Eastpoint
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Urban Scale	NA	NA	
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	Barometric Pressure	SPM	Derived from other AQS site 482011035	24 Hour Avg; 1/6 Days	Population Exposure	Urban Scale	NA	NA	
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Highest Concentration; Population Exposure	Middle Scale	Yes	NA	
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	To be decomissioned in 2014
482011034	Houston East	1262 1/2 Mae Drive, Houston	Houston-Sugar Land-Baytown, TX	29.76797	-95.22059	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Barometric Pressure	PAMS	Barometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Carbonyl	PAMS	DNPH Silica/HPLC	24 Hours; 1/6 Days; 8 3-Hours; 1/3 Days (Jul. - Sept.)	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	CO (High Sensitivity)	PAMS	Gas Filter Correlation	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Neighborhood	NA	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Area-Wide; RA-40; Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	O3	PAMS	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM10 (Speciation)	SLAMS	HiVol/Gravimetric/ICP-MS	24 Hours; 1/3 Days	Highest Concentration; Population Exposure; Source Oriented	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; Daily	Highest Concentration; Population Exposure; Source Oriented	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM2.5 (FRM)	SLAMS, QC Collocated	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM2.5 (Speciation)	SPM	Sequential FRM/ Gravimetric/Elements, Carbons, Ions, Sugars	24 Hours; Daily (FRM); 24 Hours; 1/6 Days (Speciation)	Highest Concentration	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Precipitation	SPM	Rain Gauge	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Population Exposure; Source Oriented	Neighborhood	NA	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	TNMOC (AutoGC)	PAMS	GC	Continuous	Highest Concentration; Population Exposure; Source Oriented	Neighborhood	NA	2	
482011035	Clinton	9525 1/2 Clinton Drive, Houston	Houston-Sugar Land-Baytown, TX	29.73373	-95.25759	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Barometric Pressure	SPM	Derived from NWS site KHOU	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Carbonyl	PAMS	DNPH Silica/HPLC	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	CO (High Sensitivity)	NCore	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Neighborhood	NA	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Population Exposure; Source Oriented	Neighborhood	Yes	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	NOy (High Sensitivity)	NCore	Chemiluminescence	Continuous	Population Exposure	Neighborhood	NA	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	O3	PAMS/NCore	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM Coarse (PM10-2.5)	NCore	Beta Attenuation	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM Coarse (PM2.5)	NCore	Beta Attenuation	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM10 (Speciation)	NATTS	HiVol/Gravimetric/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM10 (Speciation)	SLAMS, QC Collocated	HiVol/Gravimetric/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM2.5 (Sunset Carbon)	SPM	Optical Absorption	Continuous	General/Background	Neighborhood	No	NA	Sunset Carbon Special Project. New in 2014
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	(Black Carbon)	SPM	Aethalometer	Continuous	General/Background	Neighborhood	No	NA	QAPP/Monitor Type changed from NATTS to SPM
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM2.5 (FRM)	NCore	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Population Exposure	Neighborhood	Yes	NA	New in 2014
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM2.5 (Speciation)	CSN	Sequential Non-FRM/ Elements, Ions	24 Hours; 1/3 Days	Population Exposure	Neighborhood	No	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM2.5 (Speciation)	CSN, QC Collocated	Sequential Non-FRM/ Elements, Ions	24 Hours; 1/6 Days	Population Exposure	Neighborhood	No	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	SO2 (High Sensitivity)	NCore	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Speciated VOC (Canister)	NATTS/PAMS	Canister/GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Speciated VOC (Canister)	NATTS, QC Collocated	Canister/GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	SVOC	NATTS	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	SVOC	NATTS, QC Collocated	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	TNMOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	TSP (Lead)	NCore	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
482011039	Houston Deer Park #2	4514 1/2 Durant Street, Deer Park	Houston-Sugar Land-Baytown, TX	29.67003	-95.12851	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482011042	Kingwood	3603 1/2 West Lake Houston Parkway, Houston	Houston-Sugar Land-Baytown, TX	30.05846	-95.18975	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482011042	Kingwood	3603 1/2 West Lake Houston Parkway, Houston	Houston-Sugar Land-Baytown, TX	30.05846	-95.18975	Suburban	Precipitation	SPM	Rain Gauge	Continuous	General/Background	Neighborhood	NA	NA	
482011043	La Porte Airport C243	La Porte Airport, 2434 Buchanan Street, La Porte	Houston-Sugar Land-Baytown, TX	29.67200	-95.06470	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
482011043	La Porte Airport C243	La Porte Airport, 2434 Buchanan Street, La Porte	Houston-Sugar Land-Baytown, TX	29.67200	-95.06470	Suburban	Precipitation	PAMS	Rain Gauge	Continuous	General/Background	Neighborhood	NA	NA	
482011043	La Porte Airport C243	La Porte Airport, 2434 Buchanan Street, La Porte	Houston-Sugar Land-Baytown, TX	29.67200	-95.06470	Suburban	Radar Profiler	PAMS	Doppler Radar	24 1-Hour Averages, Daily	Regional Transport	Regional Scale	NA	NA	
482011043	La Porte Airport C243	La Porte Airport, 2434 Buchanan Street, La Porte	Houston-Sugar Land-Baytown, TX	29.67200	-95.06470	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Middle Scale	NA	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Middle Scale	No	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure; Source Oriented	Neighborhood	Yes	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Middle Scale	NA	NA	
482011050	Seabrook Friendship Park	4522 Park Road, Seabrook	Houston-Sugar Land-Baytown, TX	29.58305	-95.01554	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Middle Scale	NA	NA	
482011066	Houston Southwest Freeway	5617 Westward Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.7216	-95.4927	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
482011066	Houston Southwest Freeway	5617 Westward Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.7216	-95.4927	Urban/ Center City	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
482011066	Houston Southwest Freeway	5617 Westward Avenue, Houston	Houston-Sugar Land-Baytown, TX	29.7216	-95.4927	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Urban Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Carbonyl	NATTS	DNPH Silica/HPLC	24 Hours; 1/6 Days	General/Background	Regional Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	General/Background	Regional Scale	Yes	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	O3	SLAMS	UV Photometric	Continuous	General/Background	Regional Scale	Yes	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	PM10 (Speciation)	NATTS	HiVol/Gravimetric/ICP-MS	24 Hours; 1/6 Days	General/Background	Regional Scale	Yes	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	PM2.5 (FRM)	SPM	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	General/Background	Regional Scale	Yes	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	PM2.5 (Speciation)	Supplemental Speciation	Sequential Non-FRM/ Elements, Ions	24 Hours; 1/6 Days	General/Background; Regional Transport	Regional Scale	No	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	General/Background	Regional Scale	No	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Urban Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Speciated VOC (Canister)	NATTS	Canister/GC/MS	24 Hours; 1/6 Days	General/Background	Regional Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	SVOC	NATTS	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	General/Background	Regional Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Visibility	SPM	Visibility Sensor	Continuous	General/Background	Urban Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482030002	Karnack	Highway 134 & Spur 449, not in a city	None	32.66899	-94.16746	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Urban Scale	NA	NA	The monitor is located witing the Marshall Micropolitan Statistical Area
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Microscale	NA	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Urban Scale	Yes	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure	Microscale	NA	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	SVOC	SPM	HiVol PUF XAD/ GC/MS	24 Hours; 1/6 Days	Population Exposure	Microscale	NA	NA	
482150043	Mission	2300 North Glasscock, Mission	McAllen-Edinburg-Mission, TX	26.22623	-98.29107	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Microscale	NA	NA	
482210001	Granbury	200 N Gordon Street, Granbury	Dallas-Fort Worth-Arlington, TX	32.44230	-97.80354	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Middle Scale	NA	NA	Updated MSA/CBSA
482210001	Granbury	200 N Gordon Street, Granbury	Dallas-Fort Worth-Arlington, TX	32.44230	-97.80354	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	Updated MSA/CBSA

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482210001	Granbury	200 N Gordon Street, Granbury	Dallas-Fort Worth-Arlington, TX	32.44230	-97.80354	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Middle Scale	NA	NA	Updated MSA/CBSA
482210001	Granbury	200 N Gordon Street, Granbury	Dallas-Fort Worth-Arlington, TX	32.44230	-97.80354	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Middle Scale	NA	NA	Updated MSA/CBSA
482311006	Greenville	824 Sayle Street, Greenville	Dallas-Fort Worth-Arlington, TX	33.15308	-96.11556	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
482311006	Greenville	824 Sayle Street, Greenville	Dallas-Fort Worth-Arlington, TX	33.15308	-96.11556	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure; Upwind Background	Neighborhood	Yes	NA	
482311006	Greenville	824 Sayle Street, Greenville	Dallas-Fort Worth-Arlington, TX	33.15308	-96.11556	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure; Upwind Background	Neighborhood	Yes	NA	
482311006	Greenville	824 Sayle Street, Greenville	Dallas-Fort Worth-Arlington, TX	33.15308	-96.11556	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
482311006	Greenville	824 Sayle Street, Greenville	Dallas-Fort Worth-Arlington, TX	33.15308	-96.11556	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	O3	PAMS	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	TNMOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482450009	Beaumont Downtown	1086 Vermont Avenue, Beaumont	Beaumont-Port Arthur, TX	30.03644	-94.07109	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482450011	Port Arthur West	623 Ellias Street, Port Arthur	Beaumont-Port Arthur, TX	29.89750	-93.99110	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Neighborhood	NA	NA	
482450011	Port Arthur West	623 Ellias Street, Port Arthur	Beaumont-Port Arthur, TX	29.89750	-93.99110	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
482450011	Port Arthur West	623 Ellias Street, Port Arthur	Beaumont-Port Arthur, TX	29.89750	-93.99110	Urban/ Center City	SO2	SLAMS	Pulsed Fluorescence	Continuous	Source Oriented	Neighborhood	Yes	NA	
482450011	Port Arthur West	623 Ellias Street, Port Arthur	Beaumont-Port Arthur, TX	29.89750	-93.99110	Urban/ Center City	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure; Source Oriented	Neighborhood	NA	NA	
482450011	Port Arthur West	623 Ellias Street, Port Arthur	Beaumont-Port Arthur, TX	29.89750	-93.99110	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure; Source Oriented	Neighborhood	NA	NA	
482450018	Jefferson County Airport	End of 90th Street at Jefferson County Airport, Port Arthur	Beaumont-Port Arthur, TX	29.94280	-94.00077	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
482450018	Jefferson County Airport	End of 90th Street at Jefferson County Airport, Port Arthur	Beaumont-Port Arthur, TX	29.94280	-94.00077	Suburban	Precipitation	PAMS	Rain Gauge	Continuous	General/Background	Neighborhood	NA	NA	
482450018	Jefferson County Airport	End of 90th Street at Jefferson County Airport, Port Arthur	Beaumont-Port Arthur, TX	29.94280	-94.00077	Suburban	Radar Profiler	PAMS	Doppler Radar	24 1-Hour Averages, Daily	Regional Transport	Regional Scale	NA	NA	
482450018	Jefferson County Airport	End of 90th Street at Jefferson County Airport, Port Arthur	Beaumont-Port Arthur, TX	29.94280	-94.00077	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
482450021	Port Arthur Memorial School	2200 Jefferson Drive, Port Arthur	Beaumont-Port Arthur, TX	29.92292	-93.90903	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	General/Background; Regional Transport	Urban Scale	Yes	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	O3	SLAMS	UV Photometric	Continuous	General/Background; Regional Transport	Urban Scale	Yes	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
482450022	Hamshire	12552 Second Street, not in a city	Beaumont-Port Arthur, TX	29.86395	-94.31780	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
482450101	SETRPC 40 Sabine Pass	5200 Mechanic, not in a city	Beaumont-Port Arthur, TX	29.72800	-93.89400	Rural	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482450101	SETRPC 40 Sabine Pass	5200 Mechanic, not in a city	Beaumont-Port Arthur, TX	29.72800	-93.89400	Rural	NOy (High Sensitivity)	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482450101	SETRPC 40 Sabine Pass	5200 Mechanic, not in a city	Beaumont-Port Arthur, TX	29.72800	-93.89400	Rural	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration	Neighborhood	Yes	3	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482450101	SETRPC 40 Sabine Pass	5200 Mechanic, not in a city	Beaumont-Port Arthur, TX	29.72800	-93.89400	Rural	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
482450102	SETRPC 43 Jefferson Co Airport	Jefferson County Airport, Port Arthur	Beaumont-Port Arthur, TX	29.94250	-94.00056	Suburban	O3	SPM	UV Photometric	Continuous	Max Precursor Emissions Impact	Middle Scale	Yes	NA	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Barometric Pressure	PAMS	Barometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	CO (High Sensitivity)	PAMS	Gas Filter Correlation	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Neighborhood	NA	NA	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	RA-40; Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	O3	PAMS	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	TNMOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
482451035	Nederland High School	1800 N. 18th Street, Nederland	Beaumont-Port Arthur, TX	29.97892	-94.01087	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
482451050	Beaumont Mary	414 Mary Street, Beaumont	Beaumont-Port Arthur, TX	30.06717	-94.09093	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Neighborhood	NA	NA	
482451050	Beaumont Mary	414 Mary Street, Beaumont	Beaumont-Port Arthur, TX	30.06717	-94.09093	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Source Oriented	Neighborhood	No	NA	
482451050	Beaumont Mary	414 Mary Street, Beaumont	Beaumont-Port Arthur, TX	30.06717	-94.09093	Urban/ Center City	SO2	SPM	Pulsed Fluorescence	Continuous	Source Oriented	Neighborhood	Yes	NA	
482451050	Beaumont Mary	414 Mary Street, Beaumont	Beaumont-Port Arthur, TX	30.06717	-94.09093	Urban/ Center City	Speciated VOC (Canister)	SPM	Canister/GC/MS	24 Hours; 1/6 Days	Source Oriented	Neighborhood	NA	NA	
482451050	Beaumont Mary	414 Mary Street, Beaumont	Beaumont-Port Arthur, TX	30.06717	-94.09093	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Source Oriented	Neighborhood	NA	NA	
482510003	Cleburne Airport	1650 Airport Drive, Cleburne	Dallas-Fort Worth-Arlington, TX	32.35359	-97.43675	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	NA	
482510003	Cleburne Airport	1650 Airport Drive, Cleburne	Dallas-Fort Worth-Arlington, TX	32.35359	-97.43675	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
482510003	Cleburne Airport	1650 Airport Drive, Cleburne	Dallas-Fort Worth-Arlington, TX	32.35359	-97.43675	Suburban	Radar Profiler	PAMS	Doppler Radar	24 1-Hour Averages, Daily	Regional Transport	Regional Scale	NA	NA	
482510003	Cleburne Airport	1650 Airport Drive, Cleburne	Dallas-Fort Worth-Arlington, TX	32.35359	-97.43675	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	NA	
482510003	Cleburne Airport	1650 Airport Drive, Cleburne	Dallas-Fort Worth-Arlington, TX	32.35359	-97.43675	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
482511008	Johnson County Luisa	2420 Luisa Lane, Alvarado	Dallas-Fort Worth-Arlington, TX	32.46970	-97.16927	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
482511008	Johnson County Luisa	2420 Luisa Lane, Alvarado	Dallas-Fort Worth-Arlington, TX	32.46970	-97.16927	Suburban	Speciated VOC (Canister)	SPM	Canister/GC/MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
482511008	Johnson County Luisa	2420 Luisa Lane, Alvarado	Dallas-Fort Worth-Arlington, TX	32.46970	-97.16927	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Upwind Background	Urban Scale	NA	1	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	Dew Point	SPM	Derived at Site	Continuous	Highest Concentration	Neighborhood	NA	NA	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Population Exposure; Upwind Background	Urban Scale	Yes	1	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	O3	PAMS	UV Photometric	Continuous	Population Exposure; Upwind Background	Urban Scale	Yes	1	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Upwind Background	Regional Scale	No	NA	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Upwind Background	Urban Scale	NA	1	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	SO2	SPM	Pulsed Fluorescence	Continuous	Population Exposure; Upwind Background	Urban Scale	Yes	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Upwind Background	Urban Scale	NA	1	
482570005	Kaufman	3790 S Houston Street, Kaufman	Dallas-Fort Worth-Arlington, TX	32.56495	-96.31768	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Upwind Background	Urban Scale	NA	1	
482570020	Terrell Temtex	2988 Temtex Boulevard, Terrell	Dallas-Fort Worth-Arlington, TX	32.73192	-96.31791	Rural	Ambient Temperature	SPM	Derived from NWS site KTRL	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	NA	NA	
482570020	Terrell Temtex	2988 Temtex Boulevard, Terrell	Dallas-Fort Worth-Arlington, TX	32.73192	-96.31791	Rural	Barometric Pressure	SPM	Derived from NWS site KTRL	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	NA	NA	
482570020	Terrell Temtex	2988 Temtex Boulevard, Terrell	Dallas-Fort Worth-Arlington, TX	32.73192	-96.31791	Rural	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Neighborhood	Yes	NA	
482730314	National Seashore	20420 Park Road, Corpus Christi	Kingsville, TX	27.42699	-97.29870	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Regional Transport	Regional Scale	NA	NA	
482730314	National Seashore	20420 Park Road, Corpus Christi	Kingsville, TX	27.42699	-97.29870	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
482730314	National Seashore	20420 Park Road, Corpus Christi	Kingsville, TX	27.42699	-97.29870	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Regional Transport	Regional Scale	NA	NA	
483030325	Lubbock-PM25	1502 Mac Davis Drive, Lubbock	Lubbock, TX	33.59076	-101.85042	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
483030325	Lubbock-PM25	1502 Mac Davis Drive, Lubbock	Lubbock, TX	33.59076	-101.85042	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
483030325	Lubbock-PM25	1502 Mac Davis Drive, Lubbock	Lubbock, TX	33.59076	-101.85042	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Regional Transport	Urban Scale	NA	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	CO	SLAMS	Gas Filter Correlation	Continuous	Upwind Background	Urban Scale	Yes	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Upwind Background	Urban Scale	Yes	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	O3	SLAMS	UV Photometric	Continuous	Upwind Background	Regional Scale	Yes	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	SO2	SLAMS	Pulsed Fluorescence	Continuous	Upwind Background	Urban Scale	Yes	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	Regional Transport	Urban Scale	NA	NA	
483091037	Waco Mazanec	4472 Mazanec Road, Waco	Waco, TX	31.65307	-97.07068	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Regional Transport	Urban Scale	NA	NA	
483230004	Eagle Pass	265 Foster Maldonado, Eagle Pass	Eagle Pass, TX	28.70461	-100.45116	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Regional Transport	Regional Scale	NA	NA	
483230004	Eagle Pass	265 Foster Maldonado, Eagle Pass	Eagle Pass, TX	28.70461	-100.45116	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Regional Scale	No	NA	
483230004	Eagle Pass	265 Foster Maldonado, Eagle Pass	Eagle Pass, TX	28.70461	-100.45116	Urban/ Center City	Visibility	SPM	Visibility Sensor	Continuous	Regional Transport	Regional Scale	NA	NA	
483230004	Eagle Pass	265 Foster Maldonado, Eagle Pass	Eagle Pass, TX	28.70461	-100.45116	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Regional Transport	Regional Scale	NA	NA	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	4	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	General/Background; Population Exposure	Urban Scale	Yes	NA	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	O3	PAMS	UV Photometric	Continuous	General/Background; Population Exposure	Urban Scale	Yes	NA	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	General/Background	Neighborhood	No	NA	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	4	
483390078	Conroe Relocated	9472A Highway 1484, Conroe	Houston-Sugar Land-Baytown, TX	30.35030	-95.42513	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	4	
483491051	Corsicana Airport	Corsicana Airport, Corsicana	Corsicana, TX	32.03194	-96.39914	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Source Oriented	Neighborhood	No	NA	
483550025	Corpus Christi West	902 Airport Boulevard, Corpus Christi	Corpus Christi, TX	27.76533	-97.43425	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
483550025	Corpus Christi West	902 Airport Boulevard, Corpus Christi	Corpus Christi, TX	27.76533	-97.43425	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
483550025	Corpus Christi West	902 Airport Boulevard, Corpus Christi	Corpus Christi, TX	27.76533	-97.43425	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
483550025	Corpus Christi West	902 Airport Boulevard, Corpus Christi	Corpus Christi, TX	27.76533	-97.43425	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure	Neighborhood	NA	NA	
483550025	Corpus Christi West	902 Airport Boulevard, Corpus Christi	Corpus Christi, TX	27.76533	-97.43425	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
483550026	Corpus Christi Tuloso	9860 La Branch, Corpus Christi	Corpus Christi, TX	27.83241	-97.55540	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
483550026	Corpus Christi Tuloso	9860 La Branch, Corpus Christi	Corpus Christi, TX	27.83241	-97.55540	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
483550026	Corpus Christi Tuloso	9860 La Branch, Corpus Christi	Corpus Christi, TX	27.83241	-97.55540	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
483550026	Corpus Christi Tuloso	9860 La Branch, Corpus Christi	Corpus Christi, TX	27.83241	-97.55540	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
483550032	Corpus Christi Huisache	3810 Huisache Street, Corpus Christi	Corpus Christi, TX	27.80449	-97.43156	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Middle Scale	NA	NA	
483550032	Corpus Christi Huisache	3810 Huisache Street, Corpus Christi	Corpus Christi, TX	27.80449	-97.43156	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Population Exposure	Neighborhood	Yes	NA	
483550032	Corpus Christi Huisache	3810 Huisache Street, Corpus Christi	Corpus Christi, TX	27.80449	-97.43156	Urban/ Center City	PM2.5 (FRM)	SLAMS, QC Collocated	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
483550032	Corpus Christi Huisache	3810 Huisache Street, Corpus Christi	Corpus Christi, TX	27.80449	-97.43156	Urban/ Center City	SO2	SLAMS	Pulsed Fluorescence	Continuous	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	Updated QAPP/Monitor Type
483550032	Corpus Christi Huisache	3810 Huisache Street, Corpus Christi	Corpus Christi, TX	27.80449	-97.43156	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Middle Scale	NA	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Regional Scale	NA	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	PM2.5 (Speciation)	SLAMS	Sequential FRM/ Gravimetric/Elements, Carbons, Ions	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Regional Transport	Urban Scale	No	NA	Relocated from Corpus Christi West
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	Relative Humidity	SPM	Humidity Sensor	Continuous	Population Exposure	Neighborhood	NA	NA	
483550034	Dona Park	5707 Up River Road, Corpus Christi	Corpus Christi, TX	27.81181	-97.46570	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Regional Scale	NA	NA	
483611001	West Orange	2700 Austin Avenue, West Orange	Beaumont-Port Arthur, TX	30.08526	-93.76134	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Neighborhood	NA	NA	
483611001	West Orange	2700 Austin Avenue, West Orange	Beaumont-Port Arthur, TX	30.08526	-93.76134	Urban/ Center City	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Population Exposure	Neighborhood	Yes	NA	
483611001	West Orange	2700 Austin Avenue, West Orange	Beaumont-Port Arthur, TX	30.08526	-93.76134	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
483611001	West Orange	2700 Austin Avenue, West Orange	Beaumont-Port Arthur, TX	30.08526	-93.76134	Urban/ Center City	Solar Radiation	SPM	Photovoltaic	Continuous	Source Oriented	Neighborhood	NA	NA	
483611001	West Orange	2700 Austin Avenue, West Orange	Beaumont-Port Arthur, TX	30.08526	-93.76134	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Source Oriented	Neighborhood	NA	NA	
483611100	SETRPC 42 Mauriceville	Intersection of TX Highways 62 & 12, Port Arthur	Beaumont-Port Arthur, TX	30.19463	-93.86721	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Upwind Background	Regional Scale	No	NA	
483670081	Parker County	3033 New Authon Road, Weatherford	Dallas-Fort Worth-Arlington, TX	32.86878	-97.90593	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Source Oriented	Neighborhood	NA	NA	
483670081	Parker County	3033 New Authon Road, Weatherford	Dallas-Fort Worth-Arlington, TX	32.86878	-97.90593	Rural	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Urban Scale	Yes	NA	
483670081	Parker County	3033 New Authon Road, Weatherford	Dallas-Fort Worth-Arlington, TX	32.86878	-97.90593	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	Source Oriented	Neighborhood	NA	NA	
483670081	Parker County	3033 New Authon Road, Weatherford	Dallas-Fort Worth-Arlington, TX	32.86878	-97.90593	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Source Oriented	Neighborhood	NA	NA	
483750024	Amarillo SH 136	7100 State Highway 136, Amarillo	Amarillo, TX	35.28025	-101.71558	Rural	Ambient Temperature	SPM	Derived from NWS site KAMA	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	NA	NA	
483750024	Amarillo SH 136	7100 State Highway 136, Amarillo	Amarillo, TX	35.28025	-101.71558	Rural	Barometric Pressure	SPM	Derived from NWS site KAMA	24 Hour Avg; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	NA	NA	
483750024	Amarillo SH 136	7100 State Highway 136, Amarillo	Amarillo, TX	35.28025	-101.71558	Rural	TSP (Lead)	SLAMS	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure; Source Oriented	Middle Scale	Yes	NA	
483750320	Amarillo A&M	6500 Amarillo Boulevard West, Amarillo	Amarillo, TX	35.20158	-101.90925	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Urban Scale	No	NA	
483751025	Amarillo 24th Avenue	4205 NE 24th Avenue, Amarillo	Amarillo, TX	35.23674	-101.787	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	Yes	NA	New in 2014
483751025	Amarillo 24th Avenue	4205 NE 24th Avenue, Amarillo	Amarillo, TX	35.23674	-101.787	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Neighborhood	Yes	NA	New in 2014
483751025	Amarillo 24th Avenue	4205 NE 24th Avenue, Amarillo	Amarillo, TX	35.23674	-101.787	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	Yes	NA	New in 2014
483970001	Rockwall Heath	100 E Heath Street, Rockwall	Dallas-Fort Worth-Arlington, TX	32.93652	-96.45921	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
483970001	Rockwall Heath	100 E Heath Street, Rockwall	Dallas-Fort Worth-Arlington, TX	32.93652	-96.45921	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
483970001	Rockwall Heath	100 E Heath Street, Rockwall	Dallas-Fort Worth-Arlington, TX	32.93652	-96.45921	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure	Neighborhood	NA	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
483970001	Rockwall Heath	100 E Heath Street, Rockwall	Dallas-Fort Worth-Arlington, TX	32.93652	-96.45921	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	NO/NO2/ NOx	SPM	Chemiluminescence	Continuous	General/Background	Urban Scale	Yes	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	O3	SLAMS	UV Photometric	Continuous	General/Background	Urban Scale	Yes	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	Precipitation	SPM	Rain Gauge	Continuous	General/Background	Neighborhood	NA	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Neighborhood	NA	NA	
484230007	Tyler Airport Relocated	14790 County Road 1145, Tyler	Tyler, TX	32.34401	-95.41575	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
484390075	Eagle Mountain Lake	14290 Morris Dido Newark Road, Eagle Mountain	Dallas-Fort Worth-Arlington, TX	32.98789	-97.47718	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Middle Scale	NA	NA	
484390075	Eagle Mountain Lake	14290 Morris Dido Newark Road, Eagle Mountain	Dallas-Fort Worth-Arlington, TX	32.98789	-97.47718	Rural	O3	SLAMS	UV Photometric	Continuous	Max Ozone Concentration	Neighborhood	Yes	NA	
484390075	Eagle Mountain Lake	14290 Morris Dido Newark Road, Eagle Mountain	Dallas-Fort Worth-Arlington, TX	32.98789	-97.47718	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Middle Scale	NA	NA	
484390075	Eagle Mountain Lake	14290 Morris Dido Newark Road, Eagle Mountain	Dallas-Fort Worth-Arlington, TX	32.98789	-97.47718	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Middle Scale	NA	NA	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Carbonyl*	PAMS*	DNPH Silica/HPLC	24 Hours; 1/6 Days	Max Precursor Emissions Impact	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Dew Point	SPM	Derived at Site	Continuous	Population Exposure	Middle Scale	NA	NA	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	O3	PAMS	UV Photometric	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	Yes	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Population Exposure	Neighborhood	Yes	NA	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Speciated VOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Speciated VOC (Canister)*	PAMS*	Canister/GC/MS	24 Hours; 1/6 Days	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	TNMOC (AutoGC)	PAMS	GC	Continuous	Max Precursor Emissions Impact; Population Exposure	Neighborhood	NA	2	
484391002	Fort Worth Northwest	3317 Ross Avenue, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.80582	-97.35657	Urban/ Center City	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Precursor Emissions Impact	Neighborhood	NA	2	
484391006	Haws Athletic Center	600 1/2 Congress Street, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.75914	-97.34233	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/3 Days	Highest Concentration; Population Exposure	Neighborhood	Yes	NA	
484391006	Haws Athletic Center	600 1/2 Congress Street, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.75914	-97.34233	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Neighborhood	No	NA	
484392003	Keller	FAA Site off Alta Vista Road, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.92250	-97.28209	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Urban Scale	NA	NA	
484392003	Keller	FAA Site off Alta Vista Road, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.92250	-97.28209	Suburban	O3	SLAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	NA	
484392003	Keller	FAA Site off Alta Vista Road, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.92250	-97.28209	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	General/Background	Urban Scale	NA	NA	
484392003	Keller	FAA Site off Alta Vista Road, Fort Worth	Dallas-Fort Worth-Arlington, TX	32.92250	-97.28209	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Urban Scale	NA	NA	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Ambient Temperature	PAMS	Aspirated Thermister	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Barometric Pressure	PAMS	Barometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Dew Point	SPM	Derived at Site	Continuous	Highest Concentration; Max Ozone Concentration	Neighborhood	NA	NA	

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	NO/NO2/ NOx	PAMS	Chemiluminescence	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	O3	PAMS	UV Photometric	Continuous	Max Ozone Concentration; Population Exposure	Neighborhood	Yes	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Relative Humidity	PAMS	Humidity Sensor	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Solar Radiation	PAMS	Photovoltaic	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Speciated VOC (Canister)*	PAMS*	Canister/GC/MS	24 Hours; 1/6 Days	Max Ozone Concentration; Population Exposure	Neighborhood	NA	3	
484393009	Grapevine Fairway	4100 Fairway Drive, Grapevine	Dallas-Fort Worth-Arlington, TX	32.98426	-97.06371	Suburban	Wind	PAMS	Potentiometer/Cup Anemometer	Continuous	Max Ozone Concentration	Neighborhood	NA	3	
484393010	Stage Coach	8900 West Freeway, White Settlement	Dallas-Fort Worth-Arlington, TX	32.73920	-97.47033	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484393010	Stage Coach	8900 West Freeway, White Settlement	Dallas-Fort Worth-Arlington, TX	32.73920	-97.47033	Suburban	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	NA	
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	CO	SLAMS	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	RA-40; Population Exposure	Neighborhood	Yes	NA	
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Highest Concentration	Neighborhood	No	NA	
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	NA	
484393011	Arlington Municipal Airport	5504 South Collins Street, Arlington	Dallas-Fort Worth-Arlington, TX	32.65637	-97.08858	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	General/Background	Neighborhood	NA	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	CO	SPM	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	To be decomissioned in 2014
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	NO/NO2/ NOx	SLAMS	Chemiluminescence	Continuous	Area-Wide; Population Exposure	Urban Scale	Yes	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	SO2	SLAMS	Pulsed Fluorescence	Continuous	Population Exposure	Urban Scale	Yes	NA	
484530014	Austin Northwest	3724 North Hills Drive, Austin	Austin-Round Rock, TX	30.35442	-97.76025	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	General/Background	Neighborhood	NA	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Urban Scale	NA	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	Solar Radiation	SPM	Photovoltaic	Continuous	Population Exposure	Urban Scale	NA	NA	
484530020	Austin Audubon Society	12200 Lime Creek Road, Leander	Austin-Round Rock, TX	30.48317	-97.87230	Rural	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Urban Scale	NA	NA	
484530021	Austin Webberville Rd	2600B Webberville Road, Austin	Austin-Round Rock, TX	30.26320	-97.71288	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
484530021	Austin Webberville Rd	2600B Webberville Road, Austin	Austin-Round Rock, TX	30.26320	-97.71288	Urban/ Center City	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484530021	Austin Webberville Rd	2600B Webberville Road, Austin	Austin-Round Rock, TX	30.26320	-97.71288	Urban/ Center City	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484530021	Austin Webberville Rd	2600B Webberville Road, Austin	Austin-Round Rock, TX	30.26320	-97.71288	Urban/ Center City	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Population Exposure	Neighborhood	No	NA	
484530021	Austin Webberville Rd	2600B Webberville Road, Austin	Austin-Round Rock, TX	30.26320	-97.71288	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
484531068	Austin North Interstate 35	Road Southbound, Austin	Austin-Round Rock, TX	30.35386	-97.6917	Urban and Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Maximum Precursor Emissions Impact	Microscale	Yes	NA	New in 2014

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

AQS Site ID	Site Name	Address/Location	MSA/CBSA	Latitude	Longitude	Location Setting	Sampler Type	QAPP/ Monitor Type	Sampling/Analysis Method	Operating Schedule	Monitoring Objective	Spatial Scale	NAAQS Comparable	PAMS Site Type	Comments
484531068	Austin North Interstate 35	Road Southbound, Austin	Austin-Round Rock, TX	30.35386	-97.6917	Urban and Center City	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	Maximum Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
484531068	Austin North Interstate 35	Road Southbound, Austin	Austin-Round Rock, TX	30.35386	-97.6917	Urban and Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Maximum Precursor Emissions Impact	Microscale	Yes	NA	New in 2014
484690003	Victoria	106 Mockingbird Lane, Victoria	Victoria, TX	28.83617	-97.00553	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Highest Concentration	Neighborhood	NA	NA	
484690003	Victoria	106 Mockingbird Lane, Victoria	Victoria, TX	28.83617	-97.00553	Urban/ Center City	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
484690003	Victoria	106 Mockingbird Lane, Victoria	Victoria, TX	28.83617	-97.00553	Urban/ Center City	Solar Radiation	SPM	Photovoltaic	Continuous	Highest Concentration	Neighborhood	NA	NA	
484690003	Victoria	106 Mockingbird Lane, Victoria	Victoria, TX	28.83617	-97.00553	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Highest Concentration	Neighborhood	NA	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	Barometric Pressure	SPM	Derived from NWS site KLRD	24 Hour Avg; 1/6 Days	Population Exposure	Neighborhood	NA	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	CO	SPM	Gas Filter Correlation	Continuous	Population Exposure	Neighborhood	Yes	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	O3	SLAMS	UV Photometric	Continuous	Population Exposure	Neighborhood	Yes	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	PM10 (FRM)	SLAMS, QC Collocated	HiVol/Gravimetric	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	TSP (Lead)	SPM	HiVol/ICP-MS	24 Hours; 1/6 Days	Population Exposure	Neighborhood	Yes	NA	
484790016	Laredo Vidaurri	2020 Vidaurri Avenue, Laredo	Laredo, TX	27.51740	-99.51524	Suburban	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
484790017	Laredo Bridge	700 Zaragosa Street, Laredo	Laredo, TX	27.50182	-99.50299	Urban/ Center City	Ambient Temperature	SPM	Aspirated Thermister	Continuous	Population Exposure	Neighborhood	NA	NA	
484790017	Laredo Bridge	700 Zaragosa Street, Laredo	Laredo, TX	27.50182	-99.50299	Urban/ Center City	CO	SPM	Gas Filter Correlation	Continuous	Population Exposure; Source Oriented	Microscale	Yes	NA	
484790017	Laredo Bridge	700 Zaragosa Street, Laredo	Laredo, TX	27.50182	-99.50299	Urban/ Center City	PM10 (FRM)	SPM	HiVol/Gravimetric	24 Hours; 1/6 Days	Highest Concentration	Microscale	Yes	NA	
484790017	Laredo Bridge	700 Zaragosa Street, Laredo	Laredo, TX	27.50182	-99.50299	Urban/ Center City	Wind	SPM	Potentiometer/Cup Anemometer	Continuous	Population Exposure	Neighborhood	NA	NA	
484790313	World Trade Bridge	Mines Road 11601 Farm to Market 1472, Laredo	Laredo, TX	27.59944	-99.53333	Suburban	PM2.5 (TEOM)	SPM	TEOM Gravimetric	Continuous	Source Oriented	Microscale	No	NA	
TBD	Dallas Near-Road	TBD	Dallas-Fort Worth-Arlington, TX	TBD	TBD	TBD	CO	SLAMS	Gas Filter Correlation	Continuous	TBD	TBD	Yes	NA	New in 2014
TBD	Dallas Near-Road	TBD	Dallas-Fort Worth-Arlington, TX	TBD	TBD	TBD	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	TBD	TBD	Yes	NA	New in 2014
TBD	Dallas Near-Road	TBD	Dallas-Fort Worth-Arlington, TX	TBD	TBD	TBD	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	TBD	TBD	TBD	Yes	NA	New in 2014
TBD	Edinburg New Site	TBD	McAllen-Edinburg-Mission, TX	TBD	TBD	TBD	PM10 (FRM)	SLAMS	HiVol/Gravimetric	24 Hours; 1/6 Days	TBD	TBD	Yes	NA	New in 2014
TBD	Edinburg New Site	TBD	McAllen-Edinburg-Mission, TX	TBD	TBD	TBD	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	TBD	TBD	TBD	Yes	NA	New in 2014
TBD	Houston Near-Road	TBD	Houston-Sugar Land-Baytown, TX	TBD	TBD	TBD	CO	SLAMS	Gas Filter Correlation	Continuous	TBD	TBD	Yes	NA	New in 2014
TBD	Houston Near-Road	TBD	Houston-Sugar Land-Baytown, TX	TBD	TBD	TBD	NO/NO2/ NOx	SLAMS/Near-Road	Chemiluminescence	Continuous	TBD	TBD	Yes	NA	New in 2014
TBD	Houston Near-Road	TBD	Houston-Sugar Land-Baytown, TX	TBD	TBD	TBD	PM2.5 (FRM)	SLAMS	Sequential FRM/ Gravimetric	TBD	TBD	TBD	Yes	NA	New in 2014

Note: The Houston-Sugarland-Baytown MSA was redesignated as the Houston-The Woodlands-Sugarland MSA in February 2013. The original MSA name will remain in place until AQS has been updated.

TCEQ SLAMS, PAMS, CSN, NATTS, NCore, and Federally Funded SPM Networks

LEGEND

*****	PAMS monitoring beyond minimum requirements of 40 CFR Part 58, Appendix D	**NWS site KHOU**	National Weather Service site William P. Hobby Airport
24 1-Hour Avg; Daily	24 1-Hour Average, Daily	**NWS site KLRD**	National Weather Service site Laredo International Airport
1 24-Hours, Daily	1 24-Hour Sample, Daily	**NWS site KTRL**	National Weather Service site Terrell Municipal Airport TX
1 24-Hour; 1/3 Days	1 24-Hour Sample, Once every Third Day	**O3**	ozone
1 24-Hours; 1/6 Days	1 24-Hour Sample, Once every Sixth Day	**PAMS**	Photochemical Assessment Monitoring Stations
1 24-Hour Avg, 1/6 Days	1 24-Hour Average, Once every Sixth Day	**PM10**	particulate matter of 10 microns or less
8 3-Hours; 1/3 Days (Jun.	8 3-Hour Samples, Once every Third Day from June through August	**PM2.5**	particulate matter of 2.5 microns or less
8 3-Hours; 1/3 Days (Jul. -	8 3-Hour Samples, Once every Third Day from July through September	**QAPP**	quality assurance project plan
AMNP	Annual Monitoring Network Plan	**QC Collocated**	quality control collocated monitor
AQS	Air Quality System	**RA-40**	Regional Administrator required monitoring, 40 CFR Part 58, Appendix D, 4.3.4
CBSA	core based statistical area	**SETRPC**	Southeast Texas Regional Planning Commission
CO	carbon monoxide	**SLAMS**	State and Local Air Monitoring Stations
CSN	Chemical Speciation Network	**SO2**	sulfur dioxide
DNPH Silica/HPLC	chromatography	**SPM**	special purpose monitor
FRM	federal reference method	**SVOC**	semi-volatile organic compounds
GC	gas chromatograph	**TBD**	to be determined
GC/MS	gas chromatography/mass spectrometry	**TCEQ**	Texas Commission on Environmental Quality
HiVol	high volume	**TEOM**	tapered element oscillating microbalance
ICP-AES	inductively coupled plasma-atomic emission spectroscopy	**TNMOC**	total nonmethane organic carbon
MSA	metropolitan statistical area	**TSP**	total suspended particulate
NA	not applicable	**UV**	ultraviolet
NAAQS	National Ambient Air Quality Standards	**VOC**	volatile organic compounds
NATTS	National Air Toxics Trends Stations	**XAD**	divinylbenzene/styrene copolymer
NCore	National Core		
NO/NO2/NOx	nitrogen oxides	**PAMS Site Type 1**	upwind
NOy	total reactive nitrogen	**PAMS Site Type 2**	primary precursor
NWS site KAMA	National Weather Service site Rick Husband Amarillo International Airport	**PAMS Site Type 3**	maximum ozone concentration
NWS site KBRO	National Weather Service site Brownsville/South Padre Island International Airport	**PAMS Site Type 4**	downwind
NWS site KELP	National Weather Service site El Paso International Airport		

Appendix B

Table of Metropolitan Statistical Areas, 2013 U.S. Census Bureau Population Estimates, and Monitoring Requirements

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

Table of Metropolitan Statistical Areas, 2013 U.S. Census Bureau Population Estimates, and Monitoring Requirements

		$NO/NO_2/NO_x$		SO_2		Pb		O_3		CO		PM_{10}		$PM_{2.5}$		VOC	
Texas Metropolitan Statistical Areas	Population*	Required	Current	Required	Current	Required	Current	Required	Current	Required	Current	Required	Current	Required	Current	Required	Current
Dallas-Fort Worth-Arlington	6,810,913	7	12	3	4	3	8	6	19	2	3	2 - 4	7	7	14	2	8
Houston-The Woodlands-Sugar Land	6,313,158	8	17	3	8	1	2	7	21	3	6	4 - 8	11	7	20	4	5
San Antonio-New Braunfels	2,277,550	2	3	1	1	0	0	2	3	0	0	2 - 4	2	3	8	0	0
Austin-Round Rock	1,883,051	2	2	1	1	0	0	2	2	0	1	2 - 4	2	4	6	0	0
El Paso	831,036	3	3	1	3	1	5	3	6	1	5	2 - 4	7	4	6	1	1
McAllen-Edinburg-Mission	815,996	0	0	0	0	0	0	1	1	0	0	2 - 4	1**	3	2**	0	0
Corpus Christi	442,600	0	0	0	3	0	0	2	2	0	0	0 - 1	2	2	4	0	0
Killeen-Temple	423,257	0	0	0	0	0	0	2	2	0	0	0 - 1	0	0	0	0	0
Brownsville-Harlingen	417,276	0	0	0	0	0	1	1	2	0	1	0 - 1	0	2	2	0	0
Beaumont-Port Arthur	404,872	3	4	1	3	0	0	3	7	1	1	0 - 1	0	0	4	2	3
Lubbock	301,038	0	0	0	0	0	0	0	0	0	0	0 - 1	0	0	1	0	0
Laredo	262,495	0	0	0	0	0	1	1	1	0	2	0 - 1	2	0	1	0	0
Amarillo	258,196	0	0	1	1	1	1	0	0	0	0	0 - 1	0	0	1	0	0
Waco	258,974	0	1	0	1	0	0	1	1	0	1	0 - 1	0	0	1	0	0
College Station-Bryan	236,819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Longview	216,530	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Tyler	216,080	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Abilene	167,501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Midland	156,780	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wichita Falls	151,201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texarkana	149,619	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Odessa	149,378	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Sherman-Denison	122,353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
San Angelo	116,566	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Victoria	97,493	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0

Notes:
*U.S. Census Bureau population estimates as of July 1, 2013.
**Planned deployment of required monitor discussed in applicable section of the AMNP document.
Only monitors included in Appendix A are included in this table. Required monitor counts only include monitors that are required to be deployed by January 1, 2015.
Required and current monitor counts for $NO/NO_2/NO_x$, SO_2, and CO include high sensitivity monitors.
Current monitor counts for Pb and PM_{10} include speciation and collocated QC monitors.
Current monitor counts for $PM_{2.5}$ include collocated QC, federal reference method, speciation, and continuous monitors.
Current monitor counts for VOC include automated gas chromatograph, canister, and collocated QC monitors.

Appendix C

NO_2 and High Sensitivity NO_y Monitoring Requirements

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

NO_2 and High Sensitivity NO_y Monitoring Requirements

Metropolitan Statistical Areas	2013 Population Estimates*	Required NO_2 Area-Wide Monitors	Required NO_2 RA-40 Monitors	Required NO_2 Near-Road Monitors to be Deployed by 1/1/2015	Required NO_2 PAMS Monitors	Required High Sensitivity NO_y NCore Monitors	Required High Sensitivity NO_y PAMS Monitors	Total Required Monitors**	Total Current Monitors
Dallas-Fort Worth-Arlington	6,810,913	Dallas Hinton	Arlington Municipal Airport	Dallas LBJ Freeway, New near-road site	Dallas Hinton, Fort Worth Northwest	Dallas Hinton	Denton Airport South	7	12
Houston-The Woodlands-Sugarland	6,313,158	Clinton	Clinton	Houston Southwest Freeway, New near-road site	Channelview, Houston Deer Park #2, Clinton	Houston Deer Park #2	Houston Aldine	7	17
San Antonio-New Braunfels	2,277,550	San Antonio Northwest	None	San Antonio Interstate 35	None	None	None	2	3
Austin-Round Rock-San Marcos	1,883,051	Austin Northwest	None	Austin North Interstate 35	None	None	None	2	2
El Paso	831,036	None	Ascarate Park SE	None	El Paso Chamizal	El Paso Chamizal	None	3	3
McAllen-Edinburg-Mission	815,996	None	None	None	None	None	None	0	0
Corpus Christi	442,600	None	None	None	None	None	None	0	0
Brownsville-Harlingen	417,276	None	None	None	None	None	None	0	0
Killeen-Temple-Fort Hood	423,257	None	None	None	None	None	None	0	0
Beaumont-Port Arthur	404,872	None	Nederland High School	None	Nederland High School, Beaumont Downtown	None	None	2	4
Lubbock	301,038	None	None	None	None	None	None	0	0
Laredo	262,495	None	None	None	None	None	None	0	0
Amarillo	258,196	None	None	None	None	None	None	0	0
Waco	258,974	None	None	None	None	None	None	0	1
College Station-Bryan	236,819	None	None	None	None	None	None	0	0
Longview	216,530	None	None	None	None	None	None	0	1
Tyler	216,080	None	None	None	None	None	None	0	1
Abilene	167,501	None	None	None	None	None	None	0	0
Wichita Falls	151,201	None	None	None	None	None	None	0	0
Midland	151,662	None	None	None	None	None	None	0	0
Odessa	156,780	None	None	None	None	None	None	0	0
Texarkana TX	149,619	None	None	None	None	None	None	0	0
Sherman-Denison	122,353	None	None	None	None	None	None	0	0
Victoria	97,493	None	None	None	None	None	None	0	0
San Angelo	116,566	None	None	None	None	None	None	0	0

*U.S. Census Bureau population estimates as of July 1, 2013.

**Monitors may fulfil multiple monitoring requirements.

PAMS = Photochemical Assessment Monitoring Stations

NCore = National Core

RA-40 = Regional Administrator 40

Appendix D

Site Assessments for Existing and Proposed Near-Road Sites in Dallas, Houston, Austin, and San Antonio; and Maps for Proposed Near-Road Sites in Dallas and Houston

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

Table 1: Dallas Near-Road Site Assessment

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
1	4	US 75	32.86026	-96.77012	Between Caruth Haven and Southwestern Boulevard	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade.
2	7	US 75	32.86877	-96.77009	Between West Northwest Highway and Park Lane	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade.
3	6	US 75	32.80338	-96.79313	Between North Hall Street and Lemmon Avenue	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade.
4	1	I-635	32.92524	-96.80181	Between Preston Road and Hillcrest Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade.
5	2	Dallas N Tollway	32.92293	-96.81929	Between I-635 and Harvest Hill Road	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is below grade.
6	3	I-635	32.92592	-96.81140	Between Dallas North Tollway and Montford Drive	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade.
7	12	US 75	32.92921	-96.75930	Between West Spring Valley Road and I-635	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is below grade.
8	14	US 75	32.91961	-96.76591	Between I-635 and Churchill Way	Yes	Yes	Yes	No	No	This area is not viable because the TCEQ was unable to come to an agreement with the property owner. The highway along this road segment is also below grade.
9	10	I-35E	32.78993	-96.81334	Between Hi Line Drive and Continental Avenue	No	No	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, and the highway is above grade.
10	11	US 75	32.94295	-96.74202	Between Main Street and West Spring Valley Road	No	Yes	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures.
11	15	US 75	32.96652	-96.72175	Between East Arapaho Road and North Collins Boulevard	No	Yes	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures.
12	19	US 75	32.99207	-96.70991	Between Gatalyn Parkway and West Renner Road	Yes	Yes	Yes	Yes	No	This area is not viable because the TCEQ was unable to contact the property owner after repeated attempts.
13	5	I-635	32.92166	-96.84737	Between Rosser Road and Midway Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to residential structures, the highway is below grade, and there is current construction.
14	9	I-635	32.90908	-96.89041	Between Denton Drive and Josey Lane	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade, and there is current construction.
15	8	I-635	32.92370	-96.75750	Between North Central Expressway and T I Boulevard	Yes	Yes	Yes	Yes	Yes	First phase near-road site, Dallas LBJ Freeway, AQS# 481131067.
16	16	I-35E	32.80434	-96.83568	Between Wycliff Avenue and Medical District Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and power is unavailable.

Table 1: Dallas Near-Road Site Assessment (continued)

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
17	17	SH 356	32.80796	-96.86879	Between West Mockingbird Lane and Irving Boulevard	No	Yes	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
18	18	SH 356	32.81103	-96.86303	Between Iron Ridge Street and Stemmons Freeway	Yes	Yes	Yes	Yes	No	North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
19	21	I-35E	32.78005	-96.81186	Between Commerce Street and Woodall Rodgers Freeway	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, and there is current construction. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
20	13	I-635	32.91037	-96.73393	Between Forest Lane and Abrams Road	Yes	Yes	Yes	No	No	This area is not viable because the highway is significantly below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
21	23	I-35E	32.77637	-96.81154	Between West Commerce Street and Reunion Boulevard	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade, and North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
22	25	I-35E	32.87791	-96.89804	Between Walnut Hill Lane and Manana Drive	Yes	Yes	Yes	Yes	No	North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
23	24	I-35E	32.89969	-96.89801	Between Crown Road and Royal Lane	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
24	31	US 75	33.02416	-96.70999	Between 16th Street and East Park Boulevard	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
25	30	I-30	32.78066	-96.77272	Between South 2nd Avenue and South Malcolm X Boulevard	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
26	27	I-20	32.67594	-97.02460	I-20 at Lake Ridge Parkway	Yes	Yes	Yes	No	Yes	A potential site has been identified and proposed for EPA concurrence.
27	56	SH 183	32.83790	-97.05036	Between SH 360 and Amon Carter Boulevard	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to heavy vegetation, power is unavailable, the terrain is unlevel, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.

Table 1: Dallas Near-Road Site Assessment (continued)

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
28	22	I-635	32.83036	-96.63129	Between North Galloway Avenue and I-30	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and the highway is below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
29	32	I-35E	32.92202	-96.89973	Between Harry Hines Boulevard and Valley View Lane	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade, and North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
30	38	I-35E	32.71473	-96.82918	Between West Illinois Avenue and West Saner Avenue	Yes	Yes	No	Yes	No	This area is not viable because the terrain is unlevel, and North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
31	33	US 77	32.75160	-96.80937	East Colorado Boulevard and SH 180	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
32	29	I-20	32.66840	-97.21886	Between Bowman Springs Road and Little Road	No	Yes	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to heavy vegetation, commercial structures, residential structures; and the terrain is unlevel. North Central Texas Council of Governments or TxDOT construction planned for the segment.
33	20	I-635	32.87409	-96.68230	Between South Jupiter Road and Lyndon B Johnson Freeway	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
34	35	US 75	33.04602	-96.69989	Between East Spring Creek Parkway and West Parker Road	No	Yes	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the terrain is unlevel. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
35	39	I-35E	32.93116	-96.90158	Between Valwood Parkway and Valley View Lane	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade, and North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
36	90	I-20	32.66571	-97.32595	Between Edgecliff Street and I-35W	Yes	Yes	Yes	Yes	Yes	A potential site has been identified and proposed for EPA concurrence.
37	36	I-30	32.77367	-96.79463	Between South Griffin Street and South Harwood Street	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
38	42	I-30	32.79127	-96.74944	Between Grand Avenue and Winslow Avenue	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is above grade.

Table 1: Dallas Near-Road Site Assessment (continued)

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
39	44	I-35E	32.95082	-96.90859	Between West Belt Line Road and East Crosby Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
40	66	I-820	32.81681	-97.20631	Between West Pipeline Road and West Hurst Boulevard	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, the terrain is unlevel, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
41	47	I-35E	32.95517	-96.91165	Between Luna Road and West Belt Line Road	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade and North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
42	82	SH 183	32.83701	-97.03056	SH 183 at County Line Road	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to heavy vegetation and commercial structures, the terrain is unlevel, and the highway is below grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
43	52	I-35E	32.97379	-96.92261	Between Sandy Lake Road and President George Bush Turnpike	Yes	No	No	Yes	No	This area is not viable because power is unavailable, the terrain is unlevel, and there is drainage along the road segment. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
44	81	SH 121	32.83693	-97.13806	Between Forest Ridge Drive and Central Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, and power is unavailable. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
45	28	I-635	32.79967	-96.62611	Between Towne Centre Drive and US 80	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, power is unavailable, the terrain is unlevel, and the highway is below grade.
46	49	I-30	32.79401	-96.69920	Between North Jim Miller Road and St Francis Avenue	No	No	Yes	Yes	No	This site is not viable because there is not enough space to accommodate a site due to commercial structures, and power is unavailable.
47	50	I-30	32.79840	-96.68144	I-30 at South Buchner Boulevard	No	No	Yes	Yes	No	This site is not viable because there is not enough space to accommodate a site due to commercial structures, and power is unavailable.
48	91	SH 360	32.73454	-97.06244	Between East Abram Street and East Mitchell Street	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to residential structures, and the highway is above grade. North Central Texas Council of Governments or TxDOT identified planned construction along the segment.
49	46	I-20	32.67596	-97.03442	Between South Great Southwest Parkway and Lake Ridge Parkway	Yes	Yes	Yes	Yes	Yes	A potential site has been identified and proposed for EPA concurrence.

Table 1: Dallas Near-Road Site Assessment (continued)

Notes:

The TCEQ evaluated 120 of the top-ranked segments in this CBSA and concluded its viability determination for the CBSA once three road segments with viable near-road sites were identified.

Latitude and longitude denote the location of the traffic counting camera. TCEQ considered all areas along the road segment on which the traffic counting camera was located.

Space is defined by the ability to place a 40-foot by 40-foot site pad within 50 meters of the target road segment as required in 40 CFR Part 58, Appendix D, 4.3.2.

Level terrain is defined as relatively flat land without "topographical features that can influence local meteorology," as stated in the *Near-road NO_2 Monitoring Technical Assistance Document* or topographical features that can create safety hazards and prohibit site construction.

Areas with commercial structures, residential structures, or heavy vegetation prevent the TCEQ from complying with 40 CFR Part 58, Appendix E siting requirements.

I-20 refers to Interstate 20

I-30 refers to Interstate 30

I-35E refers to Interstate 35E

I-35W refers to Interstate 35W

I-635 refers to Interstate 635

I-820 refers to Interstate 820

SH 121 refers to Texas State Highway 121

SH 180 refers to Texas State Highway 180

SH 183 refers to Texas State Highway 183

SH 356 refers to Texas State Highway 356

SH 360 refers to Texas State Highway 360

Spur 366 refers to Texas State Highway Spur 366

US 75 refers to U.S. Highway 75

US 77 refers to U.S. Highway 77

US 80 refers to U.S. Highway 80

Table 2: Houston Near-Road Site Assessment

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
1	1	US 59	29.72271	-95.492407	Between Westpark Drive and Westward Street	Yes	Yes	Yes	No	Yes	First phase near-road site, Houston Southwest Freeway, AQS# 482011066.
2	2	US 59	29.72619	-95.46904	Between Chimney Rock Road and Sage Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures and trees, and the highway is above grade.
3	3	IH-45	29.92599	-95.41211	Between West Road and Aldine Bender Road	Yes	No	No	Yes	No	This area is not viable because power is unavailable, and the terrain is unlevel.
4	4	IH-45	29.94060	-95.41690	Between I-45 and Veterans Memorial Drive	Yes	Yes	Yes	Yes	No	There is current utility construction in the area.
5	6	IH-45	29.82429	-95.37997	Between Crosstimbers Street and IH-610	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, and the terrain is unlevel.
6	5	IH-45	29.94472	-95.41540	Between Greens Road and Sam Houston Tollway	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures and the highway is above grade.
7	14	IH-45	29.87107	-95.40843	Between West Canino Road and West Little York Road	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade where space exists.
8	13	IH-45	29.85462	-95.39928	Between West Parker Road and West Tidwell Road	Yes	Yes	Yes	Yes	Yes	A potential site has been identified and proposed for EPA concurrence.
9	12	US 59	29.72989	-95.44782	Between Newcastle Drive and Weslayan Street	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
10	15	IH-45	29.88090	-95.41198	Between West Canino Road and West Gulf Bank Road	Yes	Yes	Yes	Yes	Yes	A potential site has been identified and proposed for EPA concurrence.
11	7	IH-10	29.78444	-95.53811	Between Gessner Road and Bunker Hill Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures and the highway is above grade.
12	16	IH-610	29.76038	-95.45565	Between Woodway Drive and San Felipe Street	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
13	8	IH-10	29.78080	-95.56299	Between IH-10 and Memorial Drive	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is split-level.
14	9	IH-10	29.78129	-95.56301	Between IH-10 and Memorial Drive	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is split-level.
15	10	IH-10	29.78952	-95.56315	Between Westview Drive and IH-10	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade.

Table 2: Houston Near-Road Site Assessment (continued)

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
16	11	IH-10	29.78985	-95.56317	Between Westview Drive and IH-10	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures and drainage, and the highway is above grade.
17	23	IH-610	29.79210	-95.45149	Between Hempstead Road and Katy Road	Yes	Yes	Yes	Yes	No	This area is not viable because there is current construction in the area.
18	17	IH-10	29.78412	-95.46688	Between Silber Road and North Post Oak Road	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
19	20	IH-45	29.80862	-95.37349	Between IH-610 and Cavalcade Street	Yes	Yes	Yes	Yes	Yes	A potential site has been identified and proposed for EPA concurrence.

Notes:

The TCEQ evaluated 50 of the top-ranked segments in this CBSA and concluded its viability determination for a CBSA once three road segments with viable near-road sites were identified.

Latitude and longitude denote the location of the traffic counting camera. TCEQ considered all areas along the road segment on which the traffic counting camera was located.

Space is defined by the ability to place a 40-foot by 40-foot site pad within 50 meters of the target road segment as required in 40 CFR Part 58, Appendix D, 4.3.2.

Level terrain is defined as relatively flat land without "topographical features that can influence local meteorology," as stated in the *Near-road NO_2 Monitoring Technical Assistance Document* or topographical features that can create safety hazards and prohibit site construction.

Areas with commercial structures, residential structures, or heavy vegetation prevent the TCEQ from complying with 40 CFR Part 58, Appendix E siting requirements.

US 59 refers to U.S. Highway 59

IH-45 refers to Interstate Highway 45

IH-10 refers to Interstate Highway 10

IH-610 refers to Interstate Highway 610

Table 2: Austin Near-Road Site Assessment

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
1	4	I-35	30.28450	-97.72631	Between East Dean Keaton Street and Clyde Littlefield Drive	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
2	5	I-35	30.28201	-97.72791	Between Clyde Littlefield Drive and East Martin Luther Kind Jr Boulevard	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is split-level.
3	6	I-35	30.28500	-97.72599	Between East Dean Keaton Street and Clyde Littlefield Drive	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
4	7	I-35	30.33943	-97.69996	I-35 at US 183	No	No	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, the terrain is unlevel, and the highway is above grade.
5	8	I-35	30.33560	-97.70238	Between Blackson Avenue and US 183	Yes	Yes	Yes	Yes	No	This area is not viable because there are long-term construction plans.
6	9	I-35	30.32610	-97.70622	Between Huntland Drive and Koenig Lane	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, power is unavailable, and the terrain is unlevel.
7	10	I-35	30.34241	-97.69807	Between Rundberg Lane and US 183	Yes	Yes	Yes	Yes	Yes	First phase near-road site, Austin Interstate 35, AQS# 484531068.

Notes:

The TCEQ evaluated 50 of the top-ranked segments in this CBSA and concluded its viability determination for a CBSA once three road segments with viable near-road sites were identified.

Latitude and longitude denote the location of the traffic counting camera. TCEQ considered all areas along the road segment on which the traffic counting camera was located.

Space is defined by the ability to place a 40-foot by 40-foot site pad within 50 meters of the target road segment as required in 40 CFR Part 58, Appendix D, 4.3.2.

Level terrain is defined as relatively flat land without "topographical features that can influence local meteorology," as stated in the *Near-road NO_2 Monitoring Technical Assistance Document* or topographical features that can create safety hazards and prohibit site construction.

Areas with commercial structures, residential structures, or heavy vegetation prevent the TCEQ from complying with 40 CFR Part 58, Appendix E siting requirements.

I-35 refers to Interstate 35

Table 3: San Antonio Near-Road Site Assessment

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
1	94	I-410	29.52063	-98.50808	Between Northwest Military Highway and Blanco Road	No	Yes	Yes	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and the highway is below grade.
2	95	I-410	29.52064	-98.51415	Between Northwest Military Highway and AADT 3	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
3	96	I-410	29.52051	-98.51544	Between AADT 2 and Roleto Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
4	97	I-410	29.52000	-98.51832	Between Roleto Drive and Honeysuckle Lane	Yes	Yes	No	No	No	This area is not viable because the terrain is unlevel and the highway is above grade .
5	98	I-410	29.51919	-98.52095	Between Honeysuckle Lane and AADT 6	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade.
6	99	I-410	29.51904	-98.52136	Between AADT 5 and West Avenue	Yes	Yes	No	Yes	No	This area is not viable because the TCEQ was unable to contact the property owner after repeated attempts.
7	100	I-410	29.51655	-98.52767	Between West Avenue and Jackson Keller Road	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade.
8	101	I-410	29.51597	-98.52882	Between Jackson Keller Road and Vance Jackson Road	Yes	Yes	Yes	Yes	No	This area is not viable because the TCEQ was unable to contact the property owner after repeated attempts.
9	102	I-410	29.51063	-98.53786	Between Vance Jackson Road and Panda Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
10	103	I-410	29.50925	-98.54146	Between Panda Drive and Tansyl Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
11	104	I-410	29.50882	-98.54225	Between Tansyl Drive and Fennel Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
12	105	I-410	29.50783	-98.54355	Between Fennel Drive and Pinebrook Drive	No	No	Yes	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, and power is unavailable.
13	106	I-410	29.50466	-98.54658	Between Pine Brook Drive and I-10	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, power is unavailable, and the terrain is unlevel.
14	107	I-410	29.50335	-98.54758	Between Pine Brook Drive and I-11	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, power is unavailable, and the terrain is unlevel.
15	108	I-410	29.50331	-98.54761	Between Pine Brook Drive and I-12	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, power is unavailable, and the terrain is unlevel.
16	109	I-410	29.50218	-98.54848	Between Pine Brook Drive and I-13	No	No	No	Yes	No	This area is not viable because there is not enough space to accommodate a site due to commercial and residential structures, power is unavailable, and the terrain is unlevel.

Table 3: San Antonio Near-Road Site Assessment (continued)

AADT	FEAADT	Target Roadway	Latitude	Longitude	Road Segment	Space	Power Available	Level Terrain	Highway at Grade	Viable	Comments
17	126	I-410	29.52059	-98.50469	Between Blanco Road and San Pedro Avenue	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is below grade.
18	127	I-410	29.52060	-98.50615	Between Blanco Road and San Pedro Avenue	No	Yes	No	No	No	This area is not viable because there is not enough space to accommodate a site due to commercial structures, the terrain is unlevel, and the highway is below grade.
19	1	I-35	29.53770	-98.38308	Between North Weidner Road and Thousand Oaks Drive	Yes	Yes	Yes	No	No	This area is not viable because the highway is above grade.
20	2	I-35	29.54380	-98.37224	Between O'Connor Road and Landmark 35 Drive	Yes	Yes	Yes	No	No	This area is not viable because the TCEQ was unable to come to an agreement with the property owner. The highway along this road segment is also below grade.
21	3	I-35	29.53014	-98.39174	Between Thousand Oaks Drive and Crestway Drive	Yes	Yes	Yes	Yes	Yes	First phase near-road site, San Antonio Interstate 35, AQS# 480291069.

Notes:

The TCEQ evaluated 50 of the top-ranked segments in this CBSA and concluded its viability determination for a CBSA once three road segments with viable near-road sites were identified.

Latitude and longitude denote the location of the traffic counting camera. TCEQ considered all areas along the road segment on which the traffic counting camera was located.

Space is defined by the ability to place a 40-foot by 40-foot site pad within 50 meters of the target road segment as required in 40 CFR Part 58, Appendix D, 4.3.2.

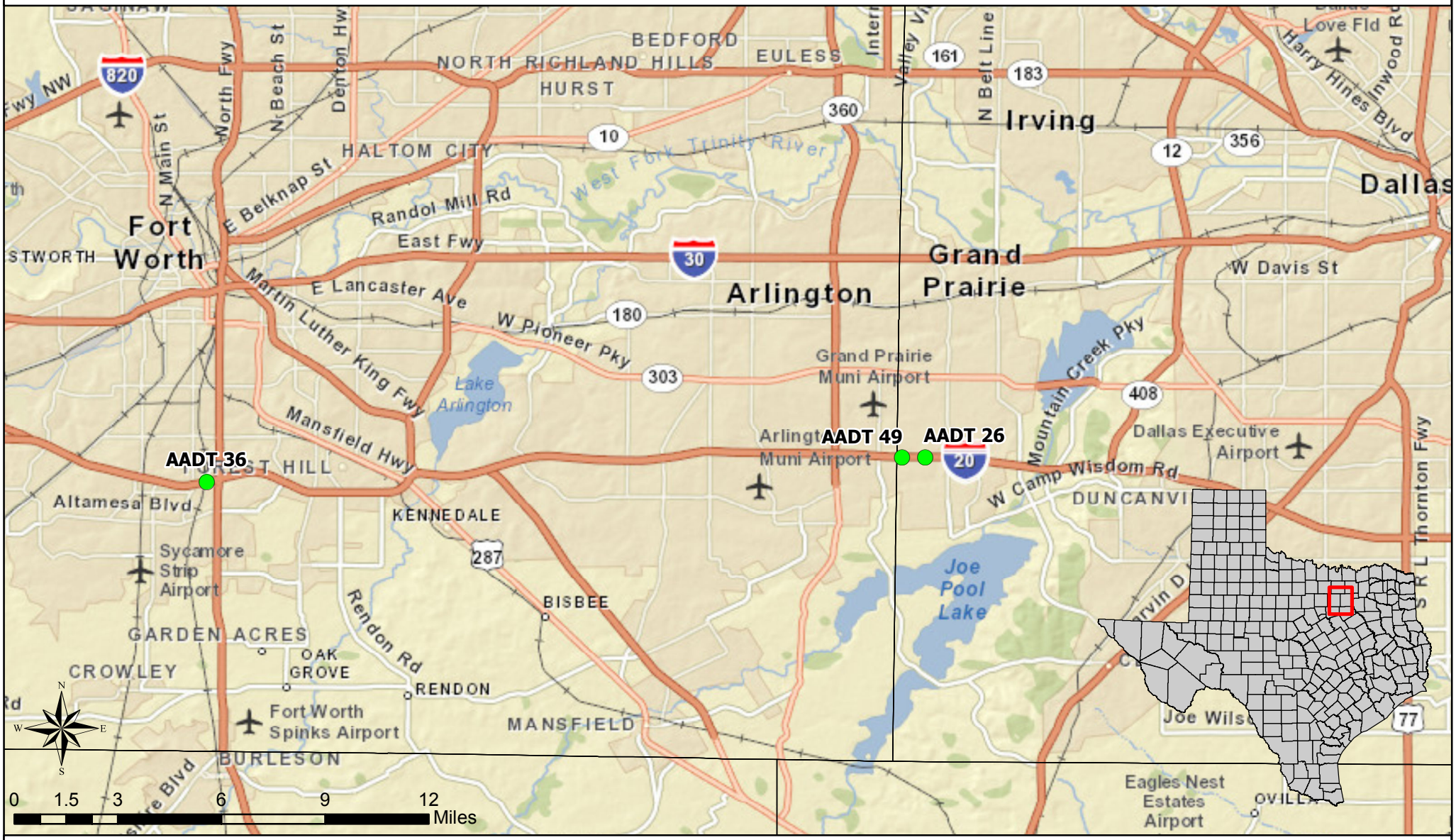
Level terrain is defined as relatively flat land without "topographical features that can influence local meteorology," as stated in the *Near-road NO_2 Monitoring Technical Assistance Document* or topographical features that can create safety hazards and prohibit site construction.

Areas with commercial structures, residential structures, or heavy vegetation prevent the TCEQ from complying with 40 CFR Part 58, Appendix E siting requirements.

I-410 refers to Northwest Interstate 410 Loop

I-35 refers to Interstate 35

Proposed Near-Road Sites in the DFW Area



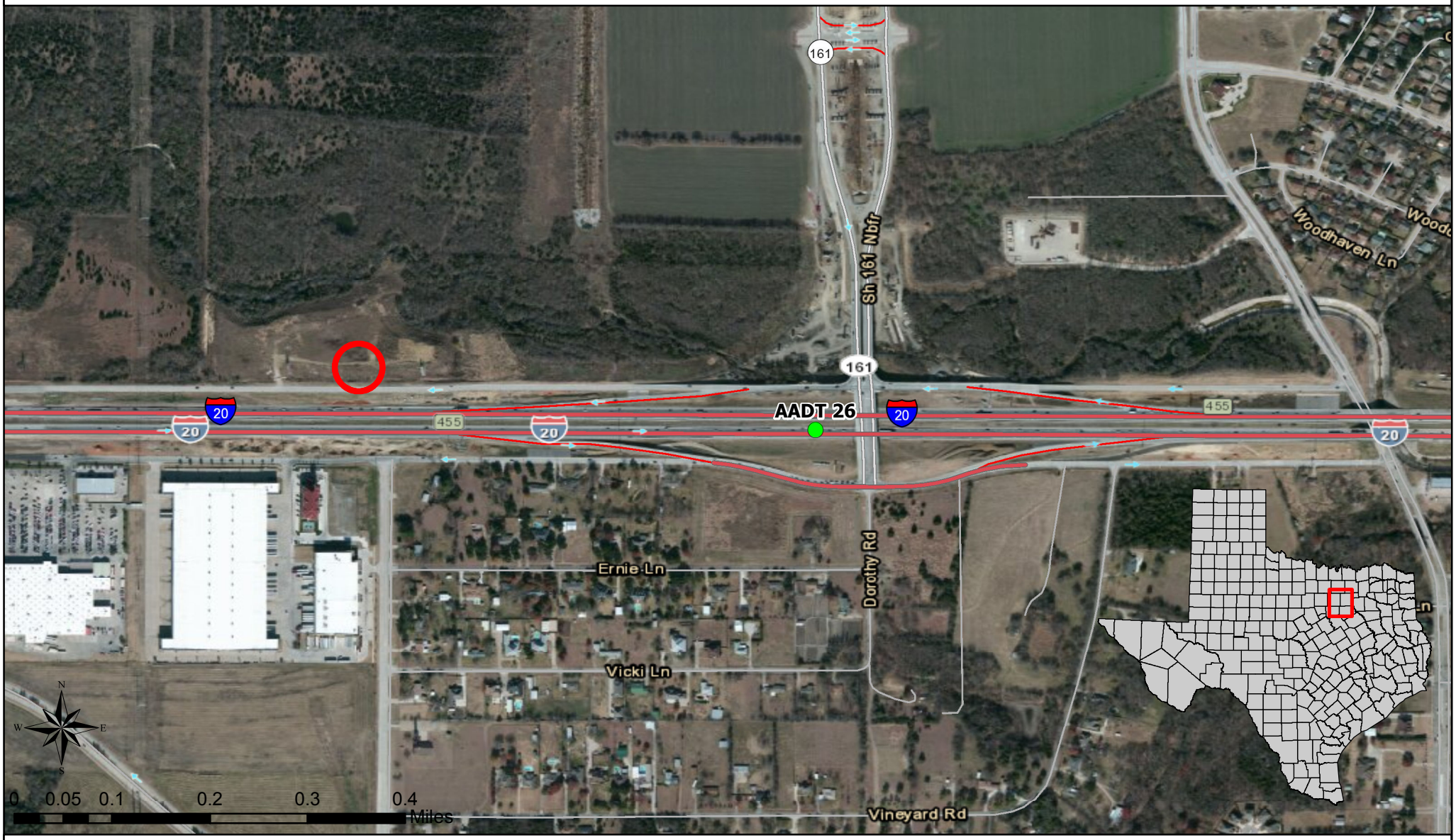
This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

AADT Ranked Location

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Arlington, Texas



This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Fort Worth, Texas

This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

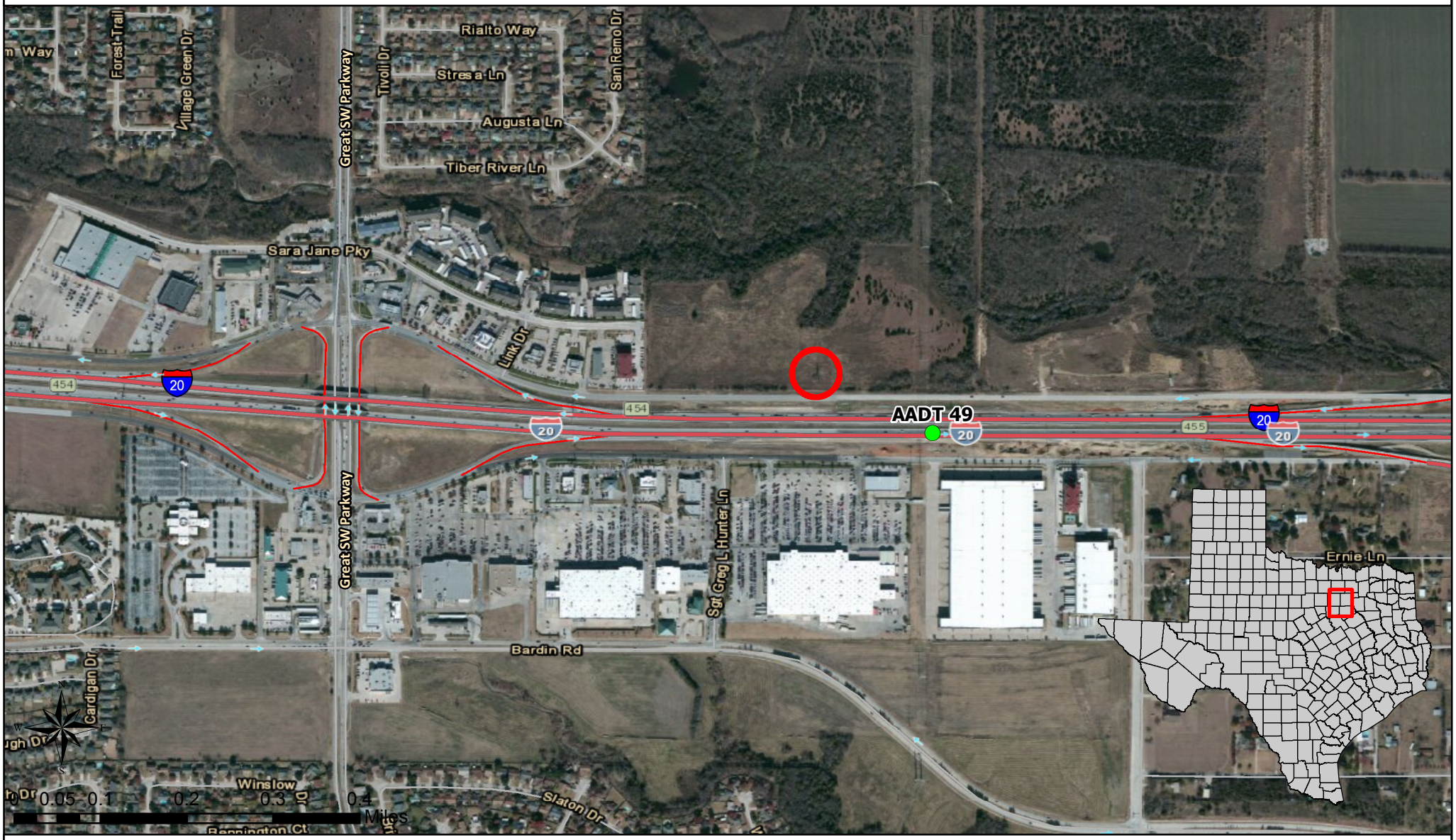
AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Arlington, Texas



This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Sites in Houston, Texas

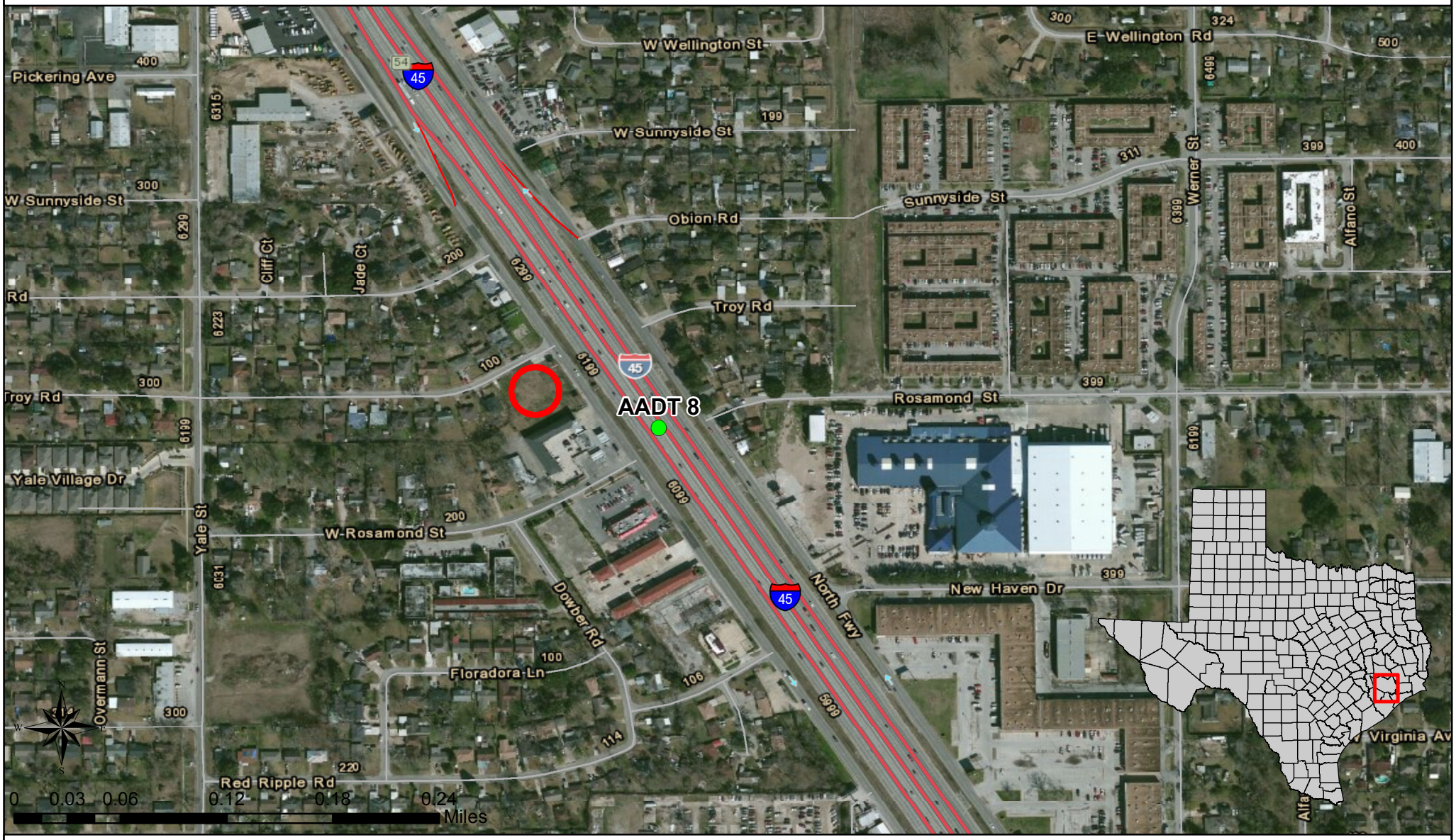
This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

AADT Ranked Location

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Houston, Texas



This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

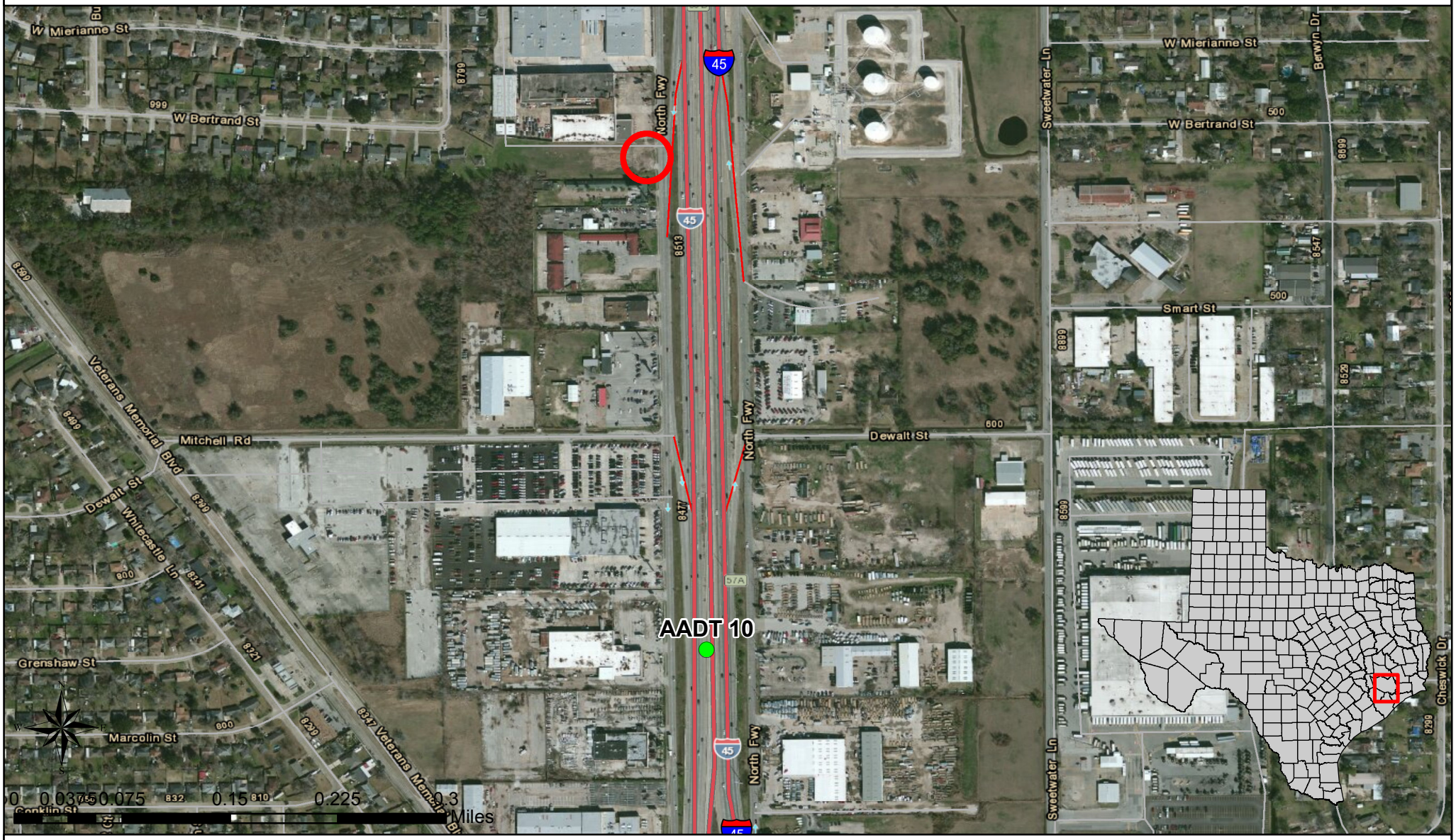
AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Houston, Texas



This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

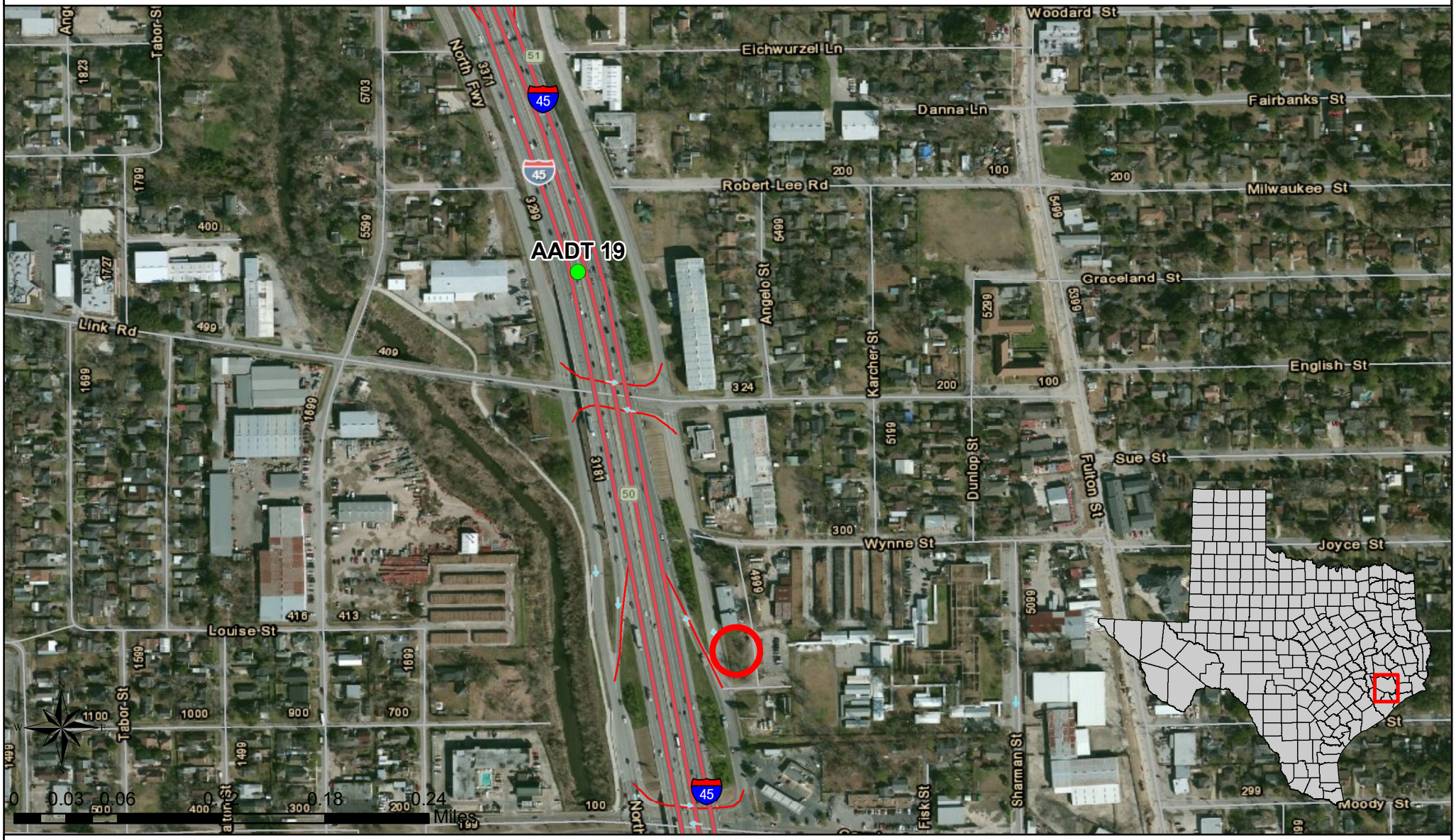
AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Proposed Near-Road Site in Houston, Texas



This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 17, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

AADT Ranked Location

Proposed Near-Road Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 17, 2014

Appendix E

SO_2 Monitoring Requirements

Texas Commission on Environmental Quality
2014 Annual Monitoring Network Plan

SO_2 Monitoring Requirements

CBSA	MSA Counties	2013 Population Estimates*	2011 Point Source (tpy)	2011 NEI Data (tpy)	2012 Point Source (tpy)	2011 NEI Non-Point Source Data with 2012 Point Source Data (tpy)	PWEI	Required PWEI Monitors	Required High Sensitivity SO_2 NCore Monitors	Total Required SO_2 Monitors	Existing Monitors
Amarillo	**Metropolitan Statistical Area**	**258,196**				**15,713.25**	**4,057**	**0**	**0**	**0**	**1**
	Armstrong		0.03	22.26	0.02	22.25					
	Carson		0.23	18.19	0.32	18.28					
	Potter		15,139.02	15,265.36	15,408.22	15,534.56					
	Randall		120.57	157.28	97.20	133.91					
	Oldham		0.00	4.24	0.00	4.24					
Austin-Round Rock	**Metropolitan Statistical Area**	**1,883,051**				**3,773.21**	**7,105**	**1**	**0**	**1**	**1**
	Bastrop		283.53	1,138.44	316.24	1,171.16					
	Caldwell		330.80	490.37	274.66	434.23					
	Hays		1,166.09	1,276.29	1,000.52	1,110.72					
	Travis		274.49	837.06	337.52	900.08					
	Williamson		0.78	157.04	0.76	157.01					
Beaumont-Port Arthur	**Metropolitan Statistical Area**	**404,872**				**18,540.97**	**7,507**	**1**	**0**	**1**	**3**
	Hardin		0.95	252.35	0.96	252.37					
	Jefferson		11,682.11	14,025.26	9,421.30	11,764.46					
	Orange		6,891.09	7,221.80	6,111.46	6,442.17					
	Newton		11.61	77.89	15.70	81.98					
Dallas-Fort Worth-Arlington	**Metropolitan Statistical Area**	**6,810,913**				**17,078.08**	**116,317**	**2**	**1**	**3**	**4****
	Collin		663.08	964.23	659.67	960.83					
	Dallas		422.39	2,162.75	457.78	2,198.14					
	Denton		252.62	453.59	354.57	555.54					
	Ellis		6,806.10	6,945.07	7,702.54	7,841.51					
	Hunt		1.10	131.54	0.10	130.53					
	Kaufman		170.69	257.37	0.00	86.69					
	Rockwall		0.02	21.89	0.01	21.88					
	Johnson		61.75	154.40	0.00	92.66					
	Parker		78.25	130.08	98.15	149.98					
	Tarrant		17.34	1,581.13	16.41	1,580.21					
	Wise		11.50	55.95	13.29	57.73					
	Hood		8.21	3,394.07	13.94	3,399.79					
	Somervell		0.00	2.59	0.00	2.59					
Houston-The Woodlands-Sugarland	**Metropolitan Statistical Area**	**6,313,158**				**60,646.41**	**382,870**	**2**	**1**	**3**	**8****
	Austin		71.74	156.04	70.84	155.13					
	Brazoria		1,323.83	1,943.39	2,482.79	3,102.36					
	Chambers		71.84	566.00	68.36	562.52					
	Fort Bend		49,557.00	49,676.34	37,872.70	37,992.04					
	Galveston		1,079.40	1,963.27	929.28	1,813.14					
	Harris		12,123.67	15,906.38	12,573.99	16,356.70					
	Liberty		22.14	168.18	21.27	167.31					
	Montgomery		18.25	258.34	17.89	257.98					
	Waller		1.95	239.46	1.72	239.23					
Longview	**Metropolitan Statistical Area**	**216,530**				**43,797.34**	**9,483**	**1**	**0**	**1**	**1**
	Gregg		39.87	261.15	26.38	247.66					
	Rusk		69,068.26	69,218.44	43,275.65	43,425.84					
	Upshur		60.64	160.09	24.39	123.84					

SO_2 Monitoring Requirements (continued)

CBSA	MSA Counties	2013 Population Estimates*	2011 Point Source (tpy)	2011 NEI Data (tpy)	2012 Point Source (tpy)	2011 NEI Non-Point Source Data with 2012 Point Source Data (tpy)	PWEI	Required PWEI Monitors	Required High Sensitivity SO_2 NCore Monitors	Total Required SO_2 Monitors	Existing Monitors
San Antonio-New Braunfels	**Metropolitan Statistical Area**	**2,277,550**				**24,932.07**	**56,784**	**1**	**0**	**1**	**1**
	Atascosa		10,194.70	10,227.81	10,987.86	11,020.97					
	Bandera		0.08	23.83	0.06	23.82					
	Bexar		22,820.01	24,637.28	11,084.42	12,901.69					
	Comal		343.91	438.51	361.00	455.60					
	Guadalupe		120.36	265.20	100.35	245.19					
	Kendall		0.24	36.36	0.00	36.12					
	Medina		0.00	120.31	0.00	120.31					
	Wilson		79.59	111.02	96.94	128.38					
Abilene	**Metropolitan Statistical Area**	**167,501**				**1,738.92**	**291**	**0**	**0**	**0**	**0**
	Callahan		0.17	1,651.81	0.03	1,651.66					
	Jones		0.00	19.16	0.00	19.16					
	Taylor		0.01	68.10	0.01	68.10					
Brownsville-Harlingen	**Metropolitan Statistical Area**	**417,276**				**268.93**	**112**	**0**	**0**	**0**	**0**
	Cameron		0.48	269.04	0.37	268.93					
College Station-Bryan	**Metropolitan Statistical Area**	**236,819**				**10,993.40**	**2,603**	**0**	**0**	**0**	**0**
	Brazos		10.02	119.68	17.23	126.88					
	Burleson		0.00	63.61	0.00	63.61					
	Robertson		11,050.35	11,130.55	10,722.71	10,802.90					
Corpus Christi	**Metropolitan Statistical Area**	**442,300**				**1,840.49**	**814**	**0**	**0**	**0**	**3**
	Aransas		0.00	300.17	0.00	300.17					
	Nueces		975.53	1,516.30	809.08	1,349.85					
	San Patricio		23.10	167.13	46.45	190.47					
El Paso	**Metropolitan Statistical Area**	**831,036**				**586.94**	**488**	**0**	**1**	**1**	**3****
	El Paso		283.18	572.15	273.80	562.77					
	Hudspeth		4.58	23.20	5.54	24.16					
Killeen-Temple	**Metropolitan Statistical Area**	**423,257**				**460.88**	**195**	**0**	**0**	**0**	**0**
	Bell		70.34	230.87	55.25	215.78					
	Coryell		0.00	188.86	0.00	188.86					
	Lampasas		0.00	56.25	0.00	56.25					
Laredo	**Metropolitan Statistical Area**	**262,495**				**80.99**	**21**	**0**	**0**	**0**	**0**
	Webb		1.62	61.34	21.28	80.99					
Lubbock	**Metropolitan Statistical Area**	**301,038**				**219.93**	**66**	**0**	**0**	**0**	**0**
	Crosby		0.00	40.70	0.00	40.70					
	Lubbock		11.25	156.26	8.07	153.08					
	Lynn		0.00	26.15	0.00	26.15					
McAllen-Edinburg-Mission	**Metropolitan Statistical Area**	**815,996**				**239.97**	**196**	**0**	**0**	**0**	**0**
	Hidalgo		52.55	254.35	38.17	239.97					
Midland	**Metropolitan Statistical Area**	**156,780**				**1,180.33**	**185**	**0**	**0**	**0**	**0**
	Midland		222.07	957.86	406.41	1,142.20					
	Martin		68.13	103.25	3.00	38.12					
Odessa	**Metropolitan Statistical Area**	**149,378**				**1,685.54**	**252**	**0**	**0**	**0**	**0**
	Ector		1,083.35	1,532.11	1,236.79	1,685.54					
San Angelo	**Metropolitan Statistical Area**	**116,566**				**89.81**	**10**	**0**	**0**	**0**	**0**
	Irion		0.26	40.72	0.35	40.80					
	Tom Green		0.75	48.99	0.77	49.01					
Sherman-Denison	**Metropolitan Statistical Area**	**122,353**				**167.25**	**20**	**0**	**0**	**0**	**0**
	Grayson		1.03	167.12	1.16	167.25					
Texarkana TX	**Metropolitan Statistical Area**	**149,619**				**285.25**	**43**	**0**	**0**	**0**	**0**
	Bowie		161.29	299.93	146.61	285.25					
Tyler	**Metropolitan Statistical Area**	**216,080**				**233.17**	**50**	**0**	**0**	**0**	**0**
	Smith		403.33	621.97	14.52	233.17					

SO_2 Monitoring Requirements (continued)

CBSA	MSA Counties	2013 Population Estimates*	2011 Point Source (tpy)	2011 NEI Data (tpy)	2012 Point Source (tpy)	2011 NEI Non-Point Source Data with 2012 Point Source Data (tpy)	PWEI	Required PWEI Monitors	Required High Sensitivity SO_2 NCore Monitors	Total Required SO_2 Monitors	Existing Monitors
Victoria	**Metropolitan Statistical Area**	**97,493**				**16,379.80**	**1,597**	**0**	**0**	**0**	**0**
	Goliad		13,829.53	13,884.78	16,218.22	16,273.47					
	Victoria		14.56	103.78	17.11	106.32					
Waco	**Metropolitan Statistical Area**	**258,974**				**1,158.33**	**300**	**0**	**0**	**0**	**1**
	McLennan		1,019.06	1,297.37	850.30	1,128.61					
	Falls		0.00	29.72	0.00	29.72					
Wichita Falls	**Metropolitan Statistical Area**	**151,201**				**711.41**	**108**	**0**	**0**	**0**	**0**
	Archer		0.00	36.94	0.00	36.94					
	Clay		0.03	67.35	0.02	67.34					
	Wichita		472.40	615.12	464.41	607.13					

*U.S. Census Bureau population estimates as of July 1, 2013.☐

**Includes high sensitivity SO_2 monitors

CBSA means Core Based Statistical Area.

MSA means Metropolitan Statistical Area.

NCore means National Core.

NEI means National Emissions Inventory.

PWEI means Population Weighted Emission Index (Population *Emissions/1,000,000).

tpy means tons per year

Appendix F

O_3 Monitoring Requirements

Texas Commission on Environmental Quality
2014 Annual Monitoring Network Plan

O_3 Monitoring Requirements

Metropolitan Statistical Area	2013 Population Estimates*	2011 - 2013 Design Value	Required Monitors	Existing Monitors
Dallas-Fort Worth-Arlington	6,810,913	87	3	19
Houston-The Woodlands-Sugarland	6,313,158	87	3	20
San Antonio-New Braunfels	2,277,550	81	2	3
Austin-Round Rock	1,883,051	73	2	2
El Paso	831,036	72	2	6
McAllen-Edinburg-Mission	815,996	59	1	1
Corpus Christi	442,600	70	2	2
Brownsville-Harlingen	417,276	60	1	2
Killeen-Temple	423,257	74	2	2
Beaumont-Port Arthur	404,872	75	2	7
Lubbock	301,038	None	0	0
Laredo	262,495	64	1	1
Amarillo	258,196	None	0	0
Waco	258,974	74	1	1
College Station-Bryan	236,819	None	0	0
Longview	216,530	77	1	1
Tyler	216,080	75	1	1
Abilene	167,501	None	0	0
Wichita Falls	151,201	None	0	0
Midland	151,662	None	0	0
Odessa	156,780	None	0	0
Texarkana	149,619	None	0	0
Sherman-Denison	122,353	None	0	0
San Angelo	116,566	None	0	0
Victoria	97,493	67	1	1

*U.S. Census Bureau population estimates as of July 1, 2013.

Appendix G

CO Monitoring Requirements

Texas Commission on Environmental Quality
2014 Annual Monitoring Network Plan

CO Monitoring Requirements

Metropolitan Statistical Areas	2013 Population Estimates*	Required CO Near-Road Monitors to be Deployed by 1/1/2015	Required High Sensitivity CO PAMS Monitors	Required High Sensitivity CO NCore Monitors	Total Required Monitors**	Total Current Monitors
Dallas-Fort Worth-Arlington	6,810,913	New new-road monitor	Dallas Hinton	Dallas Hinton	2	3
Houston-The Woodlands-Sugarland	6,313,158	New new-road monitor	Clinton	Houston Deer Park #2	3	6
San Antonio-New Braunfels	2,277,550	None	None	None	0	0
Austin-Round Rock-San Marcos	1,883,051	None	None	None	0	1
El Paso	831,036	None	None	El Paso Chamizal	1	5
McAllen-Edinburg-Mission	815,996	None	None	None	0	0
Corpus Christi	442,600	None	None	None	0	0
Brownsville-Harlingen	417,276	None	None	None	0	1
Killeen-Temple-Fort Hood	423,257	None	None	None	0	0
Beaumont-Port Arthur	404,872	None	Nederland High School	None	1	1
Lubbock	301,038	None	None	None	0	0
Laredo	262,495	None	None	None	0	2
Amarillo	258,196	None	None	None	0	0
Waco	258,974	None	None	None	0	1
College Station-Bryan	236,819	None	None	None	0	0
Longview	216,530	None	None	None	0	0
Tyler	216,080	None	None	None	0	0
Abilene	167,501	None	None	None	0	0
Wichita Falls	151,201	None	None	None	0	0
Midland	151,662	None	None	None	0	0
Odessa	156,780	None	None	None	0	0
Texarkana TX	149,619	None	None	None	0	0
Sherman-Denison	122,353	None	None	None	0	0
Victoria	97,493	None	None	None	0	0
San Angelo	116,566	None	None	None	0	0

*U.S. Census Bureau population estimates as of July 1, 2013.

**Monitors may fulfil multiple monitoring requirements.

PAMS means Photochemical Assessment Monitoring Stations.

NCore means National Core.

Appendix H

Map of Proposed McAllen-Edinburg-Mission Site

Texas Commission on Environmental Quality
2014 Annual Monitoring Network Plan

Proposed Air Monitoring Site in Edinburg, Texas

This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of April 21, 2014, for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.

Proposed Air Monitoring Site

Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

April 21, 2014

Appendix I

PM_{10} Monitoring Requirements and Network Assessment

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

Table 1: PM_{10} Monitoring Requirements

CBSA	2013 Population Estimates*	Site Name	2011 - 2013 Max Concentration (µg/m³)	% NAAQs*	Required Monitors	Existing Monitors
Dallas-Fort Worth-Arlington	6,810,913	Earhart	104	69.3%	2-4	4
Dallas-Fort Worth-Arlington	6,810,913	Convention Center	93	62.0%	2-4	4
Dallas-Fort Worth-Arlington	6,810,913	Stage Coach	106	70.7%	2-4	4
Dallas-Fort Worth-Arlington	6,810,913	Dallas North #2	93	62.0%	2-4	4
Houston-The Woodlands-Sugar Land	6,313,158	Clinton	129	86.0%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Houston Westhollow	89	59.3%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Houston Monroe	85	56.7%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Lang	88	58.7%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Houston Aldine	90	60.0%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Pasadena HL&P	70	46.7%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Texas City Fire Station	93	62.0%	4-8	8
Houston-The Woodlands-Sugar Land	6,313,158	Houston Deer Park #2	82	54.7%	4-8	8
San Antonio-New Braunfels	2,277,550	Frank Wing Municipal Court	111	74.0%	2-4	2
San Antonio-New Braunfels	2,277,550	Selma	73	48.7%	2-4	2
Austin-Round Rock	1,883,051	Austin Webberville Rd.	68	45.3%	2-4	2
Austin-Round Rock	1,883,051	Austin Audubon Society	55	36.7%	2-4	2
El Paso	831,036	Socorro Hueco	169	112.7%	2-4	5
El Paso	831,036	Riverside	143.2	95.5%	2-4	5
El Paso	831,036	Ivanhoe	114.3	76.2%	2-4	5
El Paso	831,036	Van Buren	92.7	61.8%	2-4	5
El Paso	831,036	Ojo de Agua	58.8	39.2%	2-4	5
McAllen-Edinburg-Mission	815,996	Mission	138	92.0%	2-4	1
Corpus Christi	442,600	Dona Park	68	45.3%	0-1	1
Laredo	262,495	Laredo Vidaurri	106	70.7%	0-1	2
Laredo	262,495	Laredo Bridge	47	31.3%	0-1	2

*U.S. Census Bureau population estimates as of July 1, 2013.
**Current PM_{10} NAAQS is 150 µg/m³.
CBSA means Core Based Statistical Area.

Table 2: PM_{10} Network Assessment

AQS Site ID	Site Name	Sampler Type	Monitor Type	Method Code
481410029	Ivanhoe	PM_{10} (FRM)	SLAMS	62
484790017	Laredo Bridge	PM_{10} (FRM)	SPECIAL PURPOSE	62
484790016	Laredo Vidaurri	PM_{10} (FRM)	SLAMS	62
484790016	Laredo Vidaurri	PM_{10} (FRM)	SLAMS, QA COLLOCATED	62
481411021	Ojo de Agua	PM_{10} (FRM)	SLAMS, QA COLLOCATED	62
481411021	Ojo de Agua	PM_{10} (FRM)	SLAMS	62
482010071	Pasadena HL&P	PM_{10} (FRM)	SLAMS	62
481410038	Riverside	PM_{10} (FRM)	SLAMS	62
481410057	Socorro Hueco*	PM_{10} (FRM)	SLAMS	62
481410693	Van Buren	PM_{10} (FRM)	SPECIAL PURPOSE	62
481410057	Socorro Hueco	PM_{10} (FRM)	SLAMS, QA COLLOCATED	63
481670004	Texas City Fire Station*	PM_{10} (FRM)	SLAMS	63
481670004	Texas City Fire Station	PM_{10} (FRM)	SLAMS, QA COLLOCATED	63
482011035	Clinton*	PM_{10} (Speciation)	SLAMS	64
482011035	Clinton	PM_{10} (FRM)	SLAMS, QA COLLOCATED	64
482010062	Houston Monroe	PM_{10} (FRM)	SLAMS	64
482010066	Houston Westhollow	PM_{10} (FRM)	SLAMS	64
482010047	Lang	PM_{10} (FRM)	SLAMS	64
484393010	Stage Coach	PM_{10} (FRM)	SLAMS	64
484393010	Stage Coach	PM_{10} (FRM)	SLAMS, QA COLLOCATED	64

*High value site per method

Table 2: PM_{10} Network Assessment (continued)

AQS Site ID	Site Name	Sampler Type	Monitor Type	Method Code
484530020	Austin Audubon Society	PM_{10} (FRM)	SLAMS	141
484530021	Austin Webberville Rd	PM_{10} (FRM)	SLAMS	141
481130050	Convention Center	PM_{10} (FRM)	SLAMS, QA COLLOCATED	141
481130050	Convention Center	PM_{10} (FRM)	SLAMS	141
481130075	Dallas North #2	PM_{10} (FRM)	SLAMS	141
483550034	Dona Park	PM_{10} (FRM)	SLAMS, QA COLLOCATED	141
483550034	Dona Park	PM_{10} (FRM)	SLAMS	141
481130061	Earhart	PM_{10} (FRM)	SLAMS	141
480290060	Frank Wing Municipal Court	PM_{10} (FRM)	SLAMS	141
482010024	Houston Aldine	PM_{10} (FRM)	SLAMS	141
482011039	Houston Deer Park #2	PM_{10} (Speciation)	NATTS/SLAMS	141
482011039	Houston Deer Park #2	PM_{10} (Speciation)	NATTS/SLAMS, QA COLLOCATED	141
482030002	Karnack*	PM_{10} (Speciation)	NATTS	141
482150043	Mission	PM_{10} (FRM)	SLAMS	141
480290053	Selma	PM_{10} (FRM)	SLAMS	141

*High value site per method

Appendix J

$PM_{2.5}$ Monitoring Requirements

Texas Commission on Environmental Quality
2014 Annual Monitoring Network Plan

$PM_{2.5}$ Monitoring Requirements

		2011 - 2013 Design Value ($\mu g/m^3$)		Percent of NAAQS**		FRM Monitors		Speciation		Continuous	
Metropolitan Statistical Area	2013 Population Estimates*	Annual	24-Hour	Annual	24-Hour	Existing Monitors	Required Monitors	STN Monitors	SPM Monitors	Existing Monitors	Required Monitors
Dallas-Fort Worth-Arlington	6,810,913	10.8	24.0	90%	69%	6	3	1	2	8	2
Houston-The Woodlands-Sugarland	6,313,158	11.8	27.0	98%	77%	7	3	1	4	9	2
San Antonio-New Braunfels	2,277,550	8.9	23.0	74%	66%	2	2	0	0	6	2
Austin-Round Rock	1,883,051	9.6	24.0	80%	69%	2	2	0	0	3	2
El Paso	831,036	11.5	31.0	96%	89%	2	2	1	0	4	1
McAllen-Edinburg-Mission	815,996	10.3	27.0	86%	77%	1	2	0	0	1	1
Corpus Christi	442,600	10.2	31.0	85%	89%	2	1	0	1	2	1
Brownsville-Harlingen	417,276	10.3	24.0	86%	69%	0	1	0	0	2	1
Killeen-Temple	423,257	N/A	N/A	N/A	N/A	0	0	0	0	0	0
Beaumont-Port Arthur	404,872	N/A	N/A	N/A	N/A	0	0	0	0	4	1
Lubbock	301,038	N/A	N/A	N/A	N/A	0	0	0	0	1	0
Amarillo	258,196	N/A	N/A	N/A	N/A	0	0	0	0	1	0
Laredo	262,495	N/A	N/A	N/A	N/A	0	0	0	0	2	0
Waco	258,974	N/A	N/A	N/A	N/A	0	0	0	0	1	0
Wichita Falls	151,201	N/A	N/A	N/A	N/A	0	0	0	0	0	0
Texarkana	149,619	10.6	23.0	88%	66%	1	1	0	0	0	0
Odessa	149,378	N/A	N/A	N/A	N/A	0	0	0	0	2	0

*U.S. Census Bureau population estimates as of July 1, 2013.

**Current $PM_{2.5}$ Annual NAAQS is 12 $\mu g/m^3$. Current $PM_{2.5}$ 24-Hour NAAQS is 35 $\mu g/m^3$.

FRM means federal reference method.

N/A means not applicable.

NAAQS means National Ambient Air Quality Standard.

SPM means special purpose monitor.

STN means Speciation Trend Network.

Appendix K

TCEQ Responses to Comments Received on the *2014 Annual Monitoring Network Plan*

Texas Commission on Environmental Quality

2014 Annual Monitoring Network Plan

Appendix K – TCEQ Responses to Comments Received on the *2014 Annual Monitoring Network Plan* (AMNP)

As required under 40 Code of Federal Regulations (CFR) §58.10, the Texas Commission on Environmental Quality (TCEQ) posted the 2014 AMNP for public inspection for 30 days prior to submittal to the U.S. Environmental Protection Agency (EPA). During the public comment period from May 19 to June 19, 2014, the TCEQ received eleven sets of comments regarding the posted document. The comments included discussions regarding the adequacy of the TCEQ ozone (O_3), sulfur dioxide (SO_2), lead (Pb), and particulate matter networks; requests for additional monitoring; the TCEQ waiver request for the source-oriented Pb monitoring requirement at the Lower Colorado River Authority's (LCRA) Fayette power plant; and proposed locations for near-road sites in the Houston-The Woodlands-Sugar Land core based statistical area (CBSA).

In response to these comments, the TCEQ prepared Appendix K of the AMNP. The TCEQ will submit this appendix and the original comments received during the comment period to the EPA along with the 2014 AMNP.

Comment: The Capital Area Council of Governments (CAPCOG) requested that the TCEQ consider establishing an additional regulatory O_3 monitor in the Austin-Round Rock metropolitan statistical area (MSA) because the area is under-represented in terms of metropolitan area population, land area, and O_3 design value.

Response: The TCEQ considers more than regulatory monitors in evaluating the area's air quality and determining the best surveillance and pollution reduction strategies. The TCEQ operates two regulatory O_3 monitors in accordance with 40 CFR Part 58, Appendix D, 4.1, and supports eight additional non-regulatory monitors for a total of ten O_3 monitors. Even though the non-regulatory data are not of the quality to make comparisons to the national ambient air quality standard (NAAQS), the TCEQ considers the data as supporting information for the area's air quality decisions. If these non-regulatory monitors indicated an air quality issue, the TCEQ would then determine whether additional control strategies or air monitoring sites were necessary. The Austin-Round Rock MSA has never been designated as nonattainment for O_3 and the current design value is below the current 0.075 parts per million 8-hour standard. The MSAs with O_3 monitoring beyond the minimum requirements (Dallas-Fort Worth-Arlington, Houston-The Woodlands-Sugar Land, El Paso, and Beaumont-Port Arthur) are currently or have had nonattainment designations. Additional monitoring resources in these nonattainment areas were critical in evaluating sources that contributed to O_3 formation, reduction strategies, and the success of those strategies. Through cooperative work with local entities, ambient O_3 concentrations in the Austin-Round Rock area have decreased by 18% since 2000 and prevented the MSA from a nonattainment designation. Therefore, the use of both regulatory and non-regulatory data from the area's current O_3 monitoring network provides the TCEQ a sufficient dataset upon which to base decisions that will help continue to keep the Austin-Round Rock MSA in attainment.

With regard to the siting of the two regulatory O_3 monitors in the Austin-Round Rock area, the TCEQ used the applicable requirements of 40 CFR Part 58, Appendix E. In addition, the TCEQ evaluated likely sources of precursor emissions and area topographical and meteorological information in order to select both an upwind location (to evaluate transport into the urban core) and a downwind location that was most likely to observe the highest O_3 concentrations. The placement of these regulatory monitors, in addition to the supplemental information provided by the non-regulatory monitors, provides a high degree of certainty that the monitored O_3 concentrations are representative of the entire Austin-Round Rock MSA.

Comment: The CAPCOG commented that the TCEQ only provides the minimum number of O_3 monitors required for the Austin-Round Rock MSA, which requires the CAPCOG to use its own resources to provide sufficient monitoring data.

Response: One of the primary objectives of the Rider 8 program is clearly stated in the rider language: "*These activities may include...monitoring of pollution levels……*"

The TCEQ appreciates the CAPCOG's efforts in devoting a portion of these state-allocated resources to monitoring activities. While providing guidance on goals, each Rider 8 area has discretion in determining how it will spend these funds. The TCEQ Rider 8 technical liaisons and grant managers have never directed the CAPCOG to divert funds from monitoring to projects that directly help reduce emission and ambient O_3 levels. The TCEQ believes that the funding levels adequately allow for both activities.

Comment: The CAPCOG suggested that the TCEQ should consider adding an additional regulatory O_3 monitor in southwest Austin because the existing regulatory O_3 monitors do not likely measure peak O_3 averages when winds are out of the northeast.

Response: The TCEQ evaluated meteorological data for the Austin-Round Rock MSA from 2010-2013 and determined that winds from the northeast occur less than 10% of the time during O_3 season (April through October). As a result, an O_3 monitor in southwest Austin would be ill-placed to measure elevated O_3 concentrations coming from the urban core during the periods of highest O_3 formation.

Comment: The Far East El Paso Citizens United (FEEPCU) and one individual requested additional air monitoring near a planned natural gas power plant just east of the El Paso city limit. The FEEPCU and the individual expressed concern over the area's significant population growth and the population's exposure to pollution from nearby small businesses and industrial facilities. The FEEPCU requested that the TCEQ add monitoring for particulate matter of 2.5 micrometers or less ($PM_{2.5}$) and volatile organic compounds (VOCs) within a five-mile radius of the Montana Vista neighborhood.

Response: The TCEQ has committed to an evaluation of the El Paso network in advance of the 2015 annual monitoring network plan. During this process, the TCEQ will evaluate trends in population, meteorology, and sources of air pollutants to ensure the number and placement of ambient air monitors in El Paso network continue to meet the required objectives.

To address immediate concerns over pollution exposure, the TCEQ encourages members of the public to report environmental complaints either through an online form (http://www2.tceq.texas.gov/oce/complaints/index.cfm) or by calling 1-888-777-3186 (toll-free). More information about the complaint process and instructions for making a complaint are available on the TCEQ's website (http://www.tceq.texas.gov/complaints/index.html)

Comment: The Harris County Pollution Control Services (HCPCS) requested consideration of additional $PM_{2.5}$ monitoring in the west to northwest area of Harris County to support increased population growth. HCPCS also noted that current $PM_{2.5}$ monitors are located in the heavily industrialized east side of the area. HCPCS feels that data generated by the existing $PM_{2.5}$ monitors are not fully indicative of the air quality in the west/northwest portions of Harris County.

Response: The TCEQ operates six regulatory $PM_{2.5}$ monitors and nine non-regulatory $PM_{2.5}$ monitors to characterize air quality in the Houston-The Woodlands-Sugar Land MSA. The TCEQ will be conducting an extensive assessment of the Houston area $PM_{2.5}$ network as part of the 2015 five-year monitoring network plan. During this process, the TCEQ will evaluate trends in population, meteorology, and sources of air pollutants to ensure the Houston $PM_{2.5}$ network is meeting its stated monitoring objectives.

Comment: Two individuals requested consideration of an additional air monitoring station in the southeast portion of Baytown. The individuals noted that prevailing winds bring industrial and transportation air pollutants to surrounding neighborhoods.

Response: While there are no plans to place a new air monitoring station in the Baytown area at this time, the TCEQ will evaluate additional monitoring needs based on changes in population and sources of air pollutants during the 2015 five year assessment.

Comment: Three individuals requested consideration of additional air monitoring in Caldwell County. The individuals noted that unprecedented growth, increased traffic, area fracking, and a proposed landfill provide reason for air quality monitoring in the county.

Response: Though the TCEQ does not operate monitors in Caldwell County, the TCEQ does provide grant funds to the CAPCOG to assess air quality in the Central Texas region. In April 2014, the CAPCOG deployed a new Lockhart site (Air Quality System [AQS] 480551604) in Caldwell County. The data collected from this site will provide useful O_3 data for the 2014 O_3 season.

Comment: The Lone Star Chapter of the Sierra Club (Sierra Club) commented in opposition of the TCEQ's waiver request for Pb monitoring near the LCRA Fayette power plant and asked that the TCEQ withdraw its waiver request. Specifically, the Sierra Club expressed concern that the modeling in support of the Pb waiver did not account for other known Pb sources in Fayette County and surrounding areas, including nearby airports and fugitive emission sources within the LCRA Fayette power plant.

Response: The TCEQ evaluated each of the Sierra Club's concerns regarding the Pb modeling in support of the monitoring waiver request. The TCEQ's original waiver request was based on 2011 emissions inventory. In order to account for other Pb sources in the Fayette County and surrounding areas, the TCEQ reviewed the 2012 Pb point source emissions inventory for Fayette County and the adjacent Colorado County. This investigation revealed that the only point source Pb emissions from these counties were from the LCRA Fayette power plant. The 2012 emissions totaled less than 0.5 tons per year (tpy).

To address the Sierra Club's concern related to emissions from small airports, the TCEQ evaluated results from a Pb monitor that the TCEQ placed near the Stinson Municipal Airport in San Antonio as part of an EPA one-year special study to characterize air quality near small airport runways. The monitor was sited directly downwind of the airport runway to measure maximum Pb concentrations. This study concluded in August 2013. The maximum three-month rolling average was 0.0284 micrograms per cubic meter ($\mu g/m^3$), or 19% of the Pb NAAQS. The special study results demonstrate that Pb concentrations from nearby small airports are not expected to affect modeling results discussed in the waiver.

Finally, the TCEQ used conservatively high emissions rates in its model to account for fugitive emissions at the plant. The TCEQ modeled allowable Pb emissions of 1.28 tpy, i.e., 2,560 pounds per year, from the boiler stacks at the LCRA Fayette power plant operating at full capacity. The emission rate modeled is conservatively high since the 2011 Pb emissions for the power plant (cited by the comment letter) were 1,150 pounds. The modeled maximum design value resulting from the modeled 2,560 pounds per year is 0.00145 $\mu g/m^3$. Although not included in the modeling, the fugitive emissions were estimated to be less than two pounds per year and would have been dispersed over a wide area. Therefore, the addition of these fugitive emissions would not have caused the modeled results to exceed 50% of the Pb NAAQS of 0.15 $\mu g/m^3$.

The EPA Region 6 approved the Pb monitoring waiver application in a letter to the TCEQ dated May 28, 2014. For the reasons stated, the TCEQ will retain this waiver.

Comment: The Sierra Club commented that the TCEQ should explain how a facility with similar emission rates (e.g., the Exide secondary Pb smelter) could produce airborne Pb concentrations that differ by more than two orders of magnitude from the LCRA Fayette power plant.

Response: The difference in predicted impacts can be explained by several factors, including the release parameters, the release types, and the distance to receptors. In the case of Exide, the majority of emissions were low-level fugitive releases, while the overwhelming majority of emissions from the LCRA Fayette power plant are from elevated stacks. The difference in these release parameters and release types results in a modeled design value of 0.00145 $\mu g/m^3$ using the LCRA Fayette power plant's allowable emissions of 2,560 pounds of Pb per year. Thus, modeled results from the LCRA Fayette power plant vary greatly from those of the Exide facility.

Comment: The Sierra Club expressed concerns about the cumulative effect of Central and East Texas Pb emissions on ambient air Pb concentrations in the region surrounding the LCRA Fayette power plant.

Response: Though TCEQ does not have Pb monitoring data in rural settings similar to that of the LCRA Fayette power plant, the TCEQ does have pertinent ambient air Pb data from urban and industrial areas such as the Dallas-Fort Worth and Houston metropolitan areas. These two areas each have populations greater than five million people and have multiple and varied mobile, area, and industrial sources, including airports and coal fired power plants. The Pb design value for the Houston area (0.01 $\mu g/m^3$) is measured at the Houston East (AQS 482011034) site, which is located north of the Houston Ship Channel in a large, urban area with heavy mobile source traffic and large industrial complexes. The maximum rolling three-month Pb concentration recorded in the Dallas-Fort Worth area, measured at the Dallas Hinton (AQS 481130069) site, is 0.02 $\mu g/m^3$. This monitor began operating on August 25, 2011, and has not been in operation long enough to establish a three-year design value. Measured Pb values at the Houston East (AQS 482011034) and the Dallas Hinton (AQS 481130069) sites are well below the Pb NAAQS of 0.15 $\mu g/m^3$. With a modeled ambient air Pb impact that rounds to 0.00 $\mu g/m^3$, it is not technically plausible that rural Pb concentrations in the Fayette County area added to the impact of the LCRA Fayette power plant would produce an ambient air Pb concentration approaching 50% of the Pb NAAQS, or 0.075 $\mu g/m^3$.

Comment: The Sierra Club commented that the TCEQ should add an additional O_3 monitor in Wise County. The Sierra Club noted that the lack of O_3 monitoring in this area reduces the ability of photochemical models and other technical tools to evaluate compliance options and bring the area into attainment of the NAAQS.

Response: The TCEQ monitoring network provides adequate coverage of the Dallas-Fort-Worth nonattainment area. The TCEQ already operates 19 O_3 monitors in the Dallas-Fort-Worth-Arlington MSA while only three are required. The Eagle Mountain Lake (AQS 484390075) O_3 monitor, in particular, is located within 0.5 miles of the Wise County line and provides valuable air quality data for the surrounding areas. Additionally, the TCEQ provides grant funds to operate two automated gas chromatographs in Wise County at the Decatur Thompson (AQS 484970088) and Rhome Seven Hills Road (AQS 484971064) sites. These monitors provide valuable information on concentrations of O_3 precursors in Wise County, which aide in the photochemical assessment of O_3 in the Dallas-Fort Worth area.

Comment: The Sierra Club noted that the TCEQ must implement the one-hour SO_2 NAAQS by establishing a source-oriented SO_2 monitoring network.

Response: The TCEQ is meeting all current regulatory SO_2 requirements in accordance with 40 CFR Part 58, Appendix D, 4.4.2. The TCEQ will reevaluate its SO_2 network once the EPA finalizes the *Data Requirements Rule for the 1-Hour Sulfur Dioxide Primary NAAQS*. The EPA is scheduled to finalize this rule by the end of 2014.

Comment: Public Citizen, Air Alliance Houston, Environment Texas, and Environmental Integrity Project (Public Citizen) commented that the $PM_{2.5}$ monitoring at the Clinton (AQS 482011035) site is not representative of area-wide air quality because the monitor is sited near local industrial sources and the TCEQ has targeted these sources to reduce ambient $PM_{2.5}$ concentrations at the monitor. Public Citizen recommends placement of a $PM_{2.5}$ monitor one mile east of the Clinton (AQS 482011035) site in Galena Park, Texas.

Response: The Clinton (AQS 482011035) monitor is located directly downwind from industrial sources that affect air quality both at the monitoring site and in the adjacent neighborhoods. However, the simple proximity of these sources does not preclude the data's usefulness in determining area-wide impact of $PM_{2.5}$. Specifically, 40 CFR Part 58, Appendix D, 4.7.1(b) requires area-wide $PM_{2.5}$ monitoring at neighborhood or urban scale monitoring sites. Consistent with the EPA's definition of neighborhood spatial scale (40 CFR Part 58, Appendix D, 1.2[3]), the Clinton (AQS 482011035) site is located directly adjacent to multiple neighborhoods. Further, the neighborhood scale is representative of 0.5 to 4.0 kilometers; therefore, siting an additional monitor within one mile of an existing monitor may not provide different data. Finally, as Public Citizen noted, the TCEQ and local entities have implemented numerous $PM_{2.5}$ control strategies near the Clinton (AQS 482011035) monitor, such that local contributions of $PM_{2.5}$ have decreased by approximately 50% since 2006. The reduction of these local source impacts makes the Clinton (AQS 482011035) monitoring data even more representative of area-wide $PM_{2.5}$ concentrations. This is especially clear when $PM_{2.5}$ from Saharan dust or smoke events impacts the Clinton (AQS 482011035) and Houston area monitors. Because the Clinton (AQS 482011035) monitor still maintains the highest design value for the MSA and has shown to be susceptible to regional air quality events, it will remain an important indicator of air quality in the area.

Comment: Public Citizen commented that several large Pb sources require monitoring based on the Pb emissions reported from the EPA's Toxics Release Inventory (TRI) database, including the Exxon Mobile Baytown Olefins Plant and Baytown Refinery, the Asarco copper refinery in Amarillo, and the San Miguel power plant in Atascosa County.

Response: The TCEQ reviewed Pb monitoring requirements in 40 CFR Part 58, Appendix D, 4.5. The rule requires one source-oriented monitor near sources emitting greater than 0.50 tpy based on the most recent National Emissions Inventory (NEI). The emissions listed in this comment letter were reported from the EPA's TRI database and not the NEI, as referenced in Part 58. Part 58 also allows monitoring agencies to request a monitoring waiver if modeled results demonstrate that the source will not contribute to maximum Pb concentrations in excess of 50% of the Pb NAAQS.

Each year as part of the annual monitoring network plan assessment, the TCEQ reviews the most recent point source data submitted to the NEI. Under the Clean Air Act, each State is required to develop a point-source emissions inventory and report this data to the EPA's NEI. Prior to submittal of the Texas emissions inventory, the TCEQ reviews and quality assures the data to ensure accurate reporting. In contrast, TRI data is reported directly from the facilities to the EPA. Additionally, there are differences between the emissions reported to the NEI versus the TRI resulting from differences in

reporting thresholds, definitions, methodology determinations, or chemical classifications. The 2012 point source NEI data only identified two Pb sources that emitted greater than 0.50 tpy. These sources are listed in the main body of this monitoring plan. All of the sources listed by Public Citizen in this comment letter reported 2012 emissions below the monitoring requirement threshold and, therefore, do not require Pb monitoring.

The TCEQ has addressed the monitoring requirement for facilities previously reporting Pb emissions above the threshold in the following ways. Since April 2010, the TCEQ has operated a Pb monitor at the Amarillo SH 136 (AQS 483750024) site near the Asarco plant in Amarillo. The 2011-2013 design value is 0.02 $\mu g/m^3$. In 2011, the TCEQ submitted a Pb monitoring waiver request for the San Miguel Electric Cooperative, Incorporated in Atascosa County because modeled concentrations demonstrated that emissions did not contribute to greater than 50% of the Pb NAAQS. The EPA approved this waiver request in July 2012. Annually, the TCEQ reviews all current waiver requests to ensure that the facilities' Pb emissions will not contribute to greater than 50% of the NAAQS.

Comment: Public Citizen noted that the TCEQ operates the minimum number of particulate matter of 10 micrometers or less (PM_{10}) monitors required in the San Antonio to Round Rock corridor and that additional PM_{10} monitors are needed to ensure compliance with ambient standards.

Response: The TCEQ reviewed PM_{10} design values for the San Antonio and Austin-Round Rock MSAs for the 2011-2013 period. As shown in Appendix I of this plan, the San Antonio design value is at 74.0% of the NAAQS, and the Austin-Round Rock design value is at 45.3% of the NAAQS. The design values demonstrate that additional monitoring is not needed in these areas, and the TCEQ has no plans to add PM_{10} monitoring at this time.

Comment: Public Citizen recommended that the TCEQ locate the second near-road monitoring station required in the Houston-The Woodlands-Sugar Land CBSA on Interstate Highway 45 (IH-45) between West Canino Road and West Gulf Bank Road or on IH-45 between West Parker Road and West Tidwell Road.

Response: The TCEQ determined that the commenter's first proposed location is near annual average daily traffic (AADT) 10 and the second proposed location is near AADT 8. Both of the suggested road segments are surrounded by commercial and residential properties, leaving limited space for an air monitoring station within 5o meters of the roadway. While the TCEQ has identified potentially viable monitoring sites along these road segments during the site selection process, property owners have not been agreeable or responsive to requests for access. The TCEQ will continue to identify viable sites, negotiate with property owners, and work with EPA Region 6 to finalize the location for this near-road monitoring station.