

I. BACKGROUND

During the 82nd Session of the Texas Legislature (2011), the Legislature passed SB 527 to establish a regional air quality monitoring program in TCEQ Regions 3 and 4, a 49-county area encompassing the DFW Metroplex, Abilene, and Wichita Falls. The bill amended state law regarding the allocation Texas Emissions Reduction Plan (TERP) funds described in Sec. 386.051(b)(6) and Sec. 386.252(a)(5) of the Health and Safety Code to read as follows:

[...] (5) not more than \$7 million shall be allocated in 2012 and 2013 and not more than \$3 million shall be allocated in 2014 and in subsequent years to fund a regional air monitoring program in commission Regions 3 and 4 to be implemented under the commission's oversight, including direction regarding the type, number, location, and operation of, and data validation practices for, monitors funded by the program through a regional nonprofit entity located in North Texas having representation from counties, municipalities, higher education institutions, and private sector interests across the area [...]

Following passage of the law and investigation by the Texas Commission on Environmental Quality (TCEQ), the North Texas Commission (NTC) was selected as the only entity eligible to implement the program work according to the stipulations set forth in the law.

II. SUMMARY OF WORK

NTC has operated under two agreements with the TCEQ to fulfill the implementation of the Regional Air Monitoring Program; *Preliminary Direct Award Grant 582-12-21450* and *Direct Award Grant 582-12-23420*.

Preliminary Direct Award Grant 582-12-21450

Under the *Preliminary Direct Award Grant 582-12-21450* (PDAG) and its amendment, the TCEQ authorized NTC to undertake two primary tasks:

- 1) Establish an air monitoring station on the campus of the University of Texas at Arlington (UTA)
- 2) Conduct a study to evaluate the already existing TCEQ Regions 3 and 4 monitoring network and make recommendations as to the location, type, and quantity of new monitors to be constructed under the SB 527 program.

UT Arlington Air Monitor

Under PDAG, the TCEQ instructed NTC to establish an air monitoring station on the campus of the University of Texas at Arlington (UTA). The PDAG stipulated that the air monitoring station

was to utilize an Automated Gas Chromatograph (AutoGC) system to measure volatile organic compounds (VOCs), a meteorological monitoring system, and related shelter and equipment. After issuing a request for proposals (RFP) in February 2012, NTC selected URS Inc. to install, operate, report data from, and maintain the air monitoring station. URS completed installation of the monitor on September 13, 2012.

NTC Regional Air Monitor Network Committee

The TCEQ also issued an amendment to the PDAG that authorized the NTC to convene a committee to review and evaluate the already extant monitors in TCEQ Regions 3 and 4 and make recommendations as to the location, type, and quantity of new monitors to be constructed under the SB 527 program. In accordance with the bill, the NTC convened a 31-member committee composed of representatives from regional governments, non-profit organizations, universities, and businesses to assist in the design and implementation of the network. The Committee was tasked with creating a list of locations in North Texas to recommend to the TCEQ as potential sites for the new air quality monitors.

The primary goal of the committee was to make the air monitoring system in North Texas more comprehensive so that interested parties may have access to thorough and unbiased air quality data. The committee agreed upon the following “Statement of Purpose” and criteria to guide its recommendations for monitor locations:

Statement of Purpose: The purpose of this project is to monitor and report on air toxics (giving respect to the legislative intent of SB 527) with the goal of generating actionable data useful to improving air quality and public health.

Monitor Location Criteria:

- 1. Ability of proposed monitor location to improve the current network’s comprehensiveness*
- 2. Prospective monitor location’s potential for growth in population, industry, transportation, and oil & gas production*
- 3. Requests for a monitor from local government/elected officials (i.e. county judges, state representatives, TCEQ, etc.)*
- 4. County’s attainment status*
- 5. Cost-effectiveness of particular location*
- 6. Ability of proposed monitor location to create “baseline” measurements*

Based on the Statement of Purpose and Monitor Location Criteria, the committee identified a total 21 locations that would benefit from additional monitoring of air quality. Giving respect to the legislative intent of SB 527 and that much of North Texas is in non-attainment for ozone pollution, the committee recommended that the new monitors measure volatile organic

compounds (VOCs), which are ozone precursors and associated with various types of industrial and commercial activity. After consulting with the TCEQ, in October 2012 the committee approved the creation of 11 entirely new monitors and the continued funding of 10 other planned or already-extant, as follows:

Group	Location Name	Type	County	TCEQ Region
A	Mountain Creek Lake	AutoGC	Dallas	4
A	Tarrant Co. Southwest	AutoGC	Tarrant	4
A	Johnson Co. Northwest	AutoGC	Johnson	4
B	Gainesville	Canister	Cooke	4
B	Dallas Co. Southeast	Canister	Dallas	4
B	Abilene	Canister	Taylor	3
B	Eastland	Canister	Eastland	3
B	Weatherford	Canister	Parker	4
B	Jacksboro	Canister	Jack	4
C	DISH Airfield	AutoGC	Wise	4
C	Flower Mound Shiloh	AutoGC	Denton	4
C	Eagle Mountain Lake	AutoGC	Tarrant	4
C	Everman Johnson Park	AutoGC	Tarrant	4
C	Decatur Thompson	AutoGC	Wise	4
D	Keller	Canister	Tarrant	4
D	Wichita Falls	Canister	Wichita	3
E	Arlington UT Campus	AutoGC	Tarrant	4
E*	Unnamed A (Kennedale Treepoint)	AutoGC	Tarrant	4
E*	Unnamed B (OD Wyatt)	AutoGC	Tarrant	4
E*	Unnamed C (Mansfield Flying L Road)	AutoGC	Johnson	4
E*	Unnamed D (Rhome)	AutoGC	Wise	4

*Sites were established under a separate contract with the University of Texas at Arlington.

Timeline of Events for PDAG

Feb. 3, 2012	RFP Notice runs in <i>Fort Worth Star-Telegram</i> and <i>Dallas Morning News</i>
Feb. 6, 2012	Mabrie Jackson, President/CEO for NTC, signs PDAG
Feb. 7, 2012	Susana Hildebrand, Chief Engineer for TCEQ, signs PDAG
Feb. 10, 2012	RFP Notice runs in <i>Fort Worth Star-Telegram</i> and <i>Dallas Morning News</i>
Feb. 21, 2012	Deadline for submissions to RFP
Mar. 5, 2012	NTC UTA RFP Selection Committee meets and selects URS Inc. as vendor to implement PDAG
Mar. 5, 2012	NTC Regional Air Monitor Network Committee meets
Mar. 29, 2012	Mabrie Jackson, President/CEO for NTC, signs PDAG Amendment No. 1
Apr. 2, 2012	NTC Regional Air Monitor Network Committee meets
Apr. 5, 2012	David Brymer, Air Quality Division Director, signs PDAG Amendment No. 1

Apr. 23, 2012	NTC signs contracts with URS
Apr. 30, 2012	NTC receives Plan of Activities from URS
May 7, 2012	NTC Regional Air Monitor Network Committee meets
May 30, 2012	NTC Regional Air Monitor Network Committee meets
Jun. 12, 2012	NTC Regional Air Monitor Network Committee meets
Jun. 28, 2012	NTC submits final POA to TCEQ
Jun. 28, 2012	NTC receives Approval to Commence Grant Activities from TCEQ
Jul. 2, 2012	URS begins construction of air monitoring station at Arlington UT Campus
Sep. 13, 2012	Oncor completes power installation
Sep. 20, 2012	First valid sample data from Arlington UT Campus monitor
Oct. 4, 2012	NTC Regional Air Monitor Network Committee meets and approves final network design
Oct. 26, 2012	UT Arlington Campus QAPP signed

PDAG Budget Evaluation

The total amount of funds available under PDAG was \$500,000, of which NTC budgeted \$426,222.67 to implement the project. The actual expense of implementing PDAG was \$327,073.40.

Direct Award Grant 582-12-23420

Under the *Direct Award Grant 582-12-23420* (DAG) and its amendments, the TCEQ authorized NTC to implement a regional air monitoring program in TCEQ Regions 3 and 4, as set forth by SB 527. The DAG authorized the NTC to conduct four types of work:

- 1) Review and evaluate current monitoring network in TCEQ Regions 3 and 4
- 2) Deploy, operate, and report data from new air monitoring sites
- 3) Data evaluation and communication
- 4) Other activities related to the Regional Air Monitoring Program

The DAG superseded the PDAG and incorporated into itself continuation of all authorized work from the PDAG, including the continued operation of the UT Arlington Campus air monitor.

Request for Proposals Process

As set forth by the DAG, in August 2012 NTC initiated a RFP process to select a vendor to implement the Regional Air Monitoring Program. NTC convened a 6-member RFP Selection Committee to assist in the vendor selection process. Three firms submitted proposals, and each firm was evaluated on both qualification (70%) and pricing (30%). After evaluating the initial proposals, Selection Committee issued a request for a Best and Final Offer from two of the proposers. The two proposers did not change their bids. In light of this, the committee then provided more information to all three proposing firms about the location, type, and quantity of monitors in the Regional Air Monitoring Program and requested a second Best and Final Offer from each of the firms. Following this second request for a Best and Final Offer, the Selection Committee found URS Corp.'s proposal to be the most qualified and most cost-effective, and URS was unanimously selected to be awarded the contract.

Plan of Activities 582-12-23420-FY13-01

Following the selection of URS Corp., NTC, URS, and TCEQ created a Plan of Activities (POA) to implement the creation of the Regional Air Monitoring Program. Four key tasks were identified for the project:

- Task 1: Continued operation of Arlington UT Campus monitor
- Task 2: Deploy, operate, report data, and maintain all air monitors within the project
- Task 3: Respond to monitoring issues
- Task 4: Reporting/availability for questions

TCEQ approved the POA and issued to NTC an Approval to Commence Grant Activities on October 26, 2012. The period of authorized work under the POA initially ran through August 31, 2013, and was extended to January 31, 2014 under *Amendment No. 1 to Approval to Prepare Plan of Activities 582-12-23420-FY13-01*.

Implementation of Work

[NOTE: Complete details of NTC's work on the DAG is available in the Monthly Progress Reports, included in Appendix A to this report.]

Following receipt of the Approval to Commence Grant Activities, NTC began working with URS and TCEQ to build and operate the Regional Air Monitoring Program. Below is a summary of activities in each of the four tasks described above:

Task 1 – Arlington UT Campus Air Monitor: NTC and URS continued to operate and maintain the Arlington UT Campus Air Monitor throughout the entirety of the POA.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors: Using the general recommendations provided by the NTC Air Monitor Network Committee, NTC successfully deployed, operated, reported data, and maintained 17 air monitors, as recommended by the NTC Regional Air Monitor Network Committee. Photos of all 17 completed air monitor stations are available in Appendix C. Items of note include:

- *Monitoring equipment and procedures:* Two types of monitors were deployed in the project (depending upon local necessities and committee recommendation); VOC canisters and automated gas chromatographs (“AutoGCs”). VOC canister sampling stations are housed in 8’ by 8’ by 8’ shelters and measure 85 different types of VOCs. Canister stations sample the air for one 24-hour period every six days. The samples are collected by a technician once every two weeks for off-site laboratory analysis. AutoGC units are housed in 8’ by 16’ by 8’ shelters and measure 49 different types of VOCs. AutoGC stations take one 5-minute sample every hour, 7-days a week, 365 days a year. The samples are automatically analyzed onsite. Both types of monitors take standard meteorological measurements including wind speed, direction, and humidity, utilizing a 30’ met tower. After analysis and verification, the data generated by the monitors is made publicly available on the TCEQ’s website.
- *Location changes:* NTC worked with local authorities, realtors, and private landowners to establish air monitors in the original locations as recommended by the committee. In some instances, the committee gave no instruction as to the specific monitor location beyond the county in which it should be located. In these instances, NTC staff determined the final monitor location by considering TCEQ recommendations, availability of land, and the cooperation of local authorities. However, for some of the committee’s recommendations, finding

available land upon which to establish a monitor proved impossible. In those instances, NTC staff consulted with TCEQ and earlier committee recommendations that did not make the final recommendation list to select an alternate location. The following table compares the original and final locations. Alternate locations are marked with an asterisk (*).

Original Location	Final Location
Mountain Creek Lake	Dallas Elm Fork*
Tarrant Co. Southwest	Ft. Worth Benbrook Lake
Johnson Co. Northwest	Godley FM 2331
Gainesville	Gainesville Doss Street
Dallas Co. Southeast	Lancaster Cedardale
Abilene	Abilene N. 3rd Street
Eastland	Bowie Patterson Street*
Weatherford	Weatherford Highway 180
Jacksboro	Mineral Wells 23rd Street*
DISH Airfield	DISH Airfield
Flower Mound Shiloh	Flower Mound Shiloh
Eagle Mountain Lake	Eagle Mountain Lake
Everman Johnson Park	Everman Johnson Park
Decatur Thompson	Decatur Thompson
Keller	Keller
Wichita Falls	Wichita Falls MWSU
Arlington UT Campus	Arlington UT Campus

- University of Texas at Arlington Monitors:* As noted in the initial list of recommended monitor locations, four AutoGC stations established by the University of Texas at Arlington were proposed. These monitors were not incorporated into the Regional Air Monitoring Program under the POA FY13-01; however, they will be incorporated into the program in April 2014 under POA FY14-02.

Task 3 – Respond to Monitoring Issues: NTC was available to respond to monitoring issues as they arose.

Task 4 – Reporting/Availability for Questions: NTC provided consistent and thorough reporting to TCEQ about the project, including weekly conference calls to discuss the

deployment, operation, and maintenance of the network. NTC submitted monthly progress reports to the TCEQ. NTC also served as community representative about the project to regional stakeholders, including making presentations to various civic and educational groups.

Timeline of Events for DAG

Aug. 12, 2012	RFP Notice runs in <i>Fort Worth Star-Telegram</i> and <i>Dallas Morning News</i>
Aug. 28, 2012	Deadline for submissions to RFP
Aug. 30, 2012	NTC and TCEQ meet to finalize DAG and air monitor network design
Aug. 31, 2012	Mabrie Jackson, President/CEO for NTC, signs DAG
Aug. 31, 2012	Richard Hyde, Deputy Executive Director for TCEQ, signs DAG
Sep. 4, 2012	NTC Regional RFP Selection Committee meets to review proposals
Sep. 4, 2012	NTC issues request for Best and Final Offer from RFP respondents
Sep. 10, 2012	Deadline for submission of Best and Final Offers
Sep. 19, 2012	NTC Issues second request for Best and Final Offer from RFP respondents
Sep. 21, 2012	Deadline for submission of second Best and Final Offer
Sep. 24, 2012	NTC Regional RFP Selection Committee selects URS as vendor to implement DAG
Oct. 19, 2012	NTC submits final POA to TCEQ
Oct. 26, 2012	NTC receives Approval to Commence Grant Activities from TCEQ
Nov. 7, 2012	NTC signs contracts with URS
Apr. 8, 2013	Eagle Mountain Lake monitor first valid sample
May 8, 2013	DISH Airfield monitor first valid sample
May 8, 2013	Flower Mound Shiloh monitor first valid sample
May 8, 2013	Everman Johnson Park monitor first valid sample
Jun. 5, 2013	Decatur Thompson monitor first valid sample
Jul. 11, 2013	QAPP Signed
Jul. 13, 2013	Godley FM 2331 monitor first valid sample
Jul. 14, 2013	Keller monitor first valid sample
Aug. 20, 2013	Mineral Wells 23rd St. monitor first valid sample
Aug. 26, 2013	Lancaster Cedardale monitor first valid sample
Oct. 1, 2013	Fort Worth Benbrook Lake monitor first valid sample
Oct. 1, 2013	Gainesville Doss St. monitor first valid sample
Oct. 13, 2013	Bowie Patterson monitor first valid sample
Oct. 13, 2013	Weatherford Hwy. 180 monitor first valid sample
Nov. 18, 2013	Dallas Elm Fork monitor first valid sample
Dec. 18, 2013	Abilene N. 3rd St. monitor first valid sample
Dec. 18, 2013	Wichita Falls MWSU monitor first valid sample

DAG Budget Evaluation

The total amount of funds available under DAG was \$13,500,000, of which NTC budgeted \$4,694,965.60 to implement the project. The actual expense of implementing DAG through December 31, 2013 was \$3,321,622.12.

III. KEY FINDINGS

Please see Appendix B for summary of air quality data produced by the Regional Air Monitoring Program, through November 2013 (most current available validated data).

IV. CONCLUSION

As detailed above, the North Texas Commission successfully implemented all aspects of the Regional Air Monitoring Program, as specified in the POA. We look forward to continuing implementation of the project under POA FY14-02.

APPENDIX A:
MONTHLY PROGRESS REPORTS

MONTHLY PROGRESS REPORT, #1

November 9, 2012

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since receiving the Approval to Commence Grant Activities on October 26, 2012, the North Texas Commission has performed the following activities:

Task 2 – Deploy, Operate, Report Date, and Maintain Approved Air Monitors:

After selecting URS Corp. as its vendor on September 24, 2012, the NTC and URS have been negotiating a contract for the project. The NTC signed a Contract for Scientific and Technical Services with URS on November 7, 2012.

Task 3 – Respond to Monitoring Issues: The NTC has monitored data generated by the GC unit on UTA campus, with particular attention to benzene levels. The GC unit detected elevated benzene levels at 21:00 on October 31, with a reading of 1.485 ppb. This reading is slightly above the Long-Term Health Air Monitoring Comparison Value (AMCV) of 1.4 ppb, but well below the Short-Term Health AMCV of 180 ppb. Initial analysis by the NTC and TCEQ staff suggests that the slightly elevated levels can be attributed to nearby road traffic and lack of sufficient wind to disperse ambient emissions.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Site selection meetings:* The NTC will meet with stakeholders from communities slated to receive an air monitor to inform interested parties

about the project, determine exact monitor locations, and negotiate site agreements.

- *Order monitoring equipment:* The NTC and URS will place orders for necessary monitoring devices and related equipment/supplies.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network

MONTHLY PROGRESS REPORT, #2

December 19, 2012

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #1 on November 9, 2012, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *URS Work Plan:* NTC directed URS to submit a “Work Plan” outlining their plan of activities for the implementation of the SB 527 Monitoring Program.
- *Work Authorization and Notice to Proceed:* On December 4, 2012, URS submitted to NOTC its Work Plan. Subsequently, the NTC issued a “Work Authorization” and “Limited Notice to Proceed” to URS, providing URS permission to perform certain activities described in the “Work Plan.” NTC only issued a “limited” Notice to Proceed because the target list of compounds for VOC canister sampling had not yet been finalized. The approved activities were:
 - *Develop Plan of Activities (\$4,800)*
 - *Develop Quality Assurance Project Plan (\$8,200)*
 - *Procurement of equipment (\$1,881,542)*
 - *Installation of equipment in Category C and D sites (\$59,000)*
 - *12 months of monitoring at Arlington UT Campus air monitor (\$147,400)*

The total amount of authorized expenditures as approved by the Limited Notice to Proceed is \$2,101,842. NTC will issue a second Notice to Proceed at a later date to authorize work at Category A, B, and E sites.

- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has begun work to identify specific locations for new air monitoring sites (Categories A & B). Activities include visits to prospective sites, meeting with representatives from local government authorities, evaluating online maps, and research of TCEQ/EPA requirements for air monitor sites.
- *Visit air monitor locations:* The NTC Principal Investigator has visited and inspected all sites in Category C.
- *Order monitoring equipment:* URS has begun the procurement process for ordering the necessary air monitoring equipment, with expected delivery of equipment in mid-January.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Install monitors:* NTC and URS intend to install two VOC canister monitors at Category D sites in Keller and Wichita Falls.
- *Site prep work:* NTC and URS will begin site prep work to replace the AutoGC monitor at Eagle Mountain Lake (Category C).
- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested

parties about the project, determine exact monitor locations, and negotiate site agreements.

- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #3

January 21, 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #2 on December 19, 2012, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is procuring the necessary equipment to implement the air monitor network. The Everman Johnson Park monitor location is being used as a staging area for larger pieces of equipment, including two shelters that were delivered there on January 15, 2013. A complete list of equipment that has been delivered is attached to this document as an Excel spreadsheet.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). NTC Staff has also communicated with community representatives for areas with Category C & D monitors. Other activities include visits to prospective sites, meeting with representatives from local government authorities, evaluating online maps, and research of TCEQ/EPA requirements for air monitor sites.
- *Various Administrative Tasks:* The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC,

TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: The NTC has monitored data generated by the GC unit on UT Arlington campus, with particular attention to benzene levels. The TCEQ alerted NTC staff of a monitoring issue at the UT Arlington Campus monitor on December 31, 2012, where the monitor detected abnormally high levels of benzene and toluene. After investigation, TCEQ and Orsat confirmed that the high readings were due to an operator incorrectly coding data from the monitor. NTC alerted staff at URS and Orsat to the problem. URS and Orsat responded to NTC that this type of ‘operator error’ would not happen again.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery:* Equipment delivery will continue to various URS and Orsat depots, including 2 AutoGC units by the end of January.
- *Install monitors:* Monitor installations scheduled for February are as follows:
 - *February 8:* AutoGC installation at DISH Airfield
 - *February 22:* Canister installation at Wichita Falls
 - *February 22:* Canister installation at Keller Springs
- *Site prep work:* NTC and URS will perform site prep work to replace the monitors at Eagle Mountain Lake, Everman Johnson Park, Flower Mound Shiloh, and Decatur Thompson (all AutoGCs).

- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #4

February 28, 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #3 on January 21, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. As stated in the January report, the Everman Johnson Park monitor location is continuing to be used as a staging area for larger pieces of equipment. AutoGC shelters have been delivered to Flower Mound Shiloh and DISH Airfield. Two autgoGC units have been delivered to Orsat for calibration.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Elm Fork (Dallas Co.):* NTC is awaiting decision by City of Dallas as to whether they are requesting monitoring on this location. The city's decision is contingent upon whether oil and gas drilling operations are permitted to proceed near the location.

- *Tarrant Co. Southwest (Benbrook):* NTC has identified Benbrook Lake as an ideal location for air monitoring. The Army Corps of Engineers has been approached about establishing an air monitor on their property. NTC is awaiting reply from them.
- *Johnson Co. Northwest:* NTC has identified three potential locations within the area for air monitoring and is working with TCEQ to determine the best location.
- *Gainesville:* The City of Gainesville has been approached about establishing an air monitor within city limits. The city has expressed reticence to allow air monitoring to occur within the city because of fears for increased environmental regulation. NTC is preparing a response to the city's concerns in hopes of convincing the city to allow monitoring to commence.
- *Lancaster (Dallas Co. Southeast):* NTC has collaborated with City of Lancaster to identify a suitable monitoring location. NTC, URS, and the city are working through the permitting process. NTC anticipates that the monitor location will be approved by the end of March, with construction on new site to commence shortly thereafter.
- *Abilene:* NTC has approached the City of Abilene about establishing an air monitor within city limits. NTC is awaiting a response from the city.
- *Eastland:* NTC has approached the City of Eastland about establishing an air monitor within city limits. NTC is awaiting a response from the city.
- *Weatherford:* NTC has collaborated with City of Weatherford to identify a suitable monitoring location. Weatherford initially approved a suitable monitoring location, but the city recently withdrew their approval. NTC, URS, and the city are

now collaborating to identify a new location that will meet the monitor siting guidelines.

- *Jacksboro*: NTC has approached the City of Jacksboro about establishing an air monitor within city limits. After meeting with NTC, the city manager brought the proposal up with the city council on Feb. 26, 2013. The city council decided to decline the NTC's request. NTC has suggested removing the City of Jacksboro from the list of proposed monitoring locations and replace it with another location more amenable to monitoring activity.
- *DISH Airfield*: URS has delivered a shelter to the site and initial site preparation work is underway. NTC anticipates the new DISH monitor to be fully operational by the end of March.
- *Flower Mound Shiloh*: URS has delivered a shelter to the site and initial site preparation work is underway. NTC anticipates the new Flower Mound monitor to be fully operational by the end of March or beginning of April.
- *Eagle Mountain Lake*: The new shelter is en-route to the site and initial site preparation work is underway. NTC anticipates the new Eagle Mountain monitor to be fully operational by the end of March.
- *Everman Johnson Park*: URS has delivered a shelter to the site and initial site preparation work is underway. NTC anticipates the new Everman monitor to be fully operational by the end of March or beginning of April.
- *Decatur Thompson*: URS has delivered a shelter to the site and initial site preparation work is underway. NTC anticipates the new Decatur monitor to be fully operational by the end of March or beginning of April.
- *Keller*: NTC, URS, and TCEQ are working with the FAA to gain permission to establish new monitor on the Keller site. NTC

anticipates the new Keller monitor to be fully operational by the end of March or beginning of April.

- *Wichita Falls*: TCEQ is working to identify new location in Wichita Falls to establish the new monitor.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: The NTC has monitored data generated by the GC unit on UT Arlington campus, with particular attention to benzene levels. There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery*: Equipment delivery will continue to various URS and Orsat depots, including the AutoGC units to Orsat.
- *Site preparation and monitor installation*: URS and Orsat be working on site preparation and monitor installation for all Category C and D sites throughout the month of March.
- *Site selection meetings*: The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.

- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #5

March 31, 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #4 on February 28, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Elm Fork (Dallas Co.):* NTC has met with City of Dallas to discuss status of the Elm Fork Site. As stated in the February Progress Report, the City of Dallas was withholding approval until the City determined whether drilling would be allowed near the proposed site. The City has yet to make a final decision regarding drilling, however in NTC's March 29 meeting with staff from City of Dallas, the City indicated that they would like to proceed with establishing an air monitor at the Elm Fork Site, near the new soccer complex currently under construction in the area.

- *Tarrant Co. Southwest (Benbrook):* US Army Corps of Engineers has responded favorably to NTC's request to use USACE land for establishing an air monitor. USACE is currently vetting the NTC's site requirements and access agreement.
- *Johnson Co. Northwest:* NTC has met with staff from Johnson County Special Utility District to evaluate a parcel of their property for establishing a monitor. JCSUD is now vetting the NTC's site requirements and access agreement with its board.
- *Gainesville:* After evaluating the local conditions, including the City's hesitancy to establish a monitor on City property, NTC has decided to look to establish a site access agreement with a private party.
- *Lancaster (Dallas Co. Southeast):* NTC presented to Lancaster Parks Advisory Board and received unanimous approval to locate an air monitor in Cedardale Park. NTC's request now goes before Lancaster City Council for final approval.
- *Abilene:* NTC has been working with City of Abilene to find a suitable location. Initial conversations were with Abilene Water Department, but now NTC is working with the Parks Department to find a suitable location.
- *Eastland:* The City of Eastland has declined NTC's request for a monitoring location. NTC is now evaluating alternative options.
- *Weatherford:* The initial proposed location in City of Weatherford was not suitable due to wind obstructions. NTC is now working with Weatherford College to find an alternative location on the college's campus.
- *Jacksboro:* After evaluating the local conditions, including the City's hesitancy to establish a monitor on City property, NTC has decided to consider a different location for this air monitor.

- *DISH Airfield*: URS and Orsat have completed site prep and installation work. URS is now waiting for the electricity connection to be established at the site.
- *Flower Mound Shiloh*: URS has delivered a shelter to the site and initial site preparation work is underway.
- *Eagle Mountain Lake*: URS and Orsat have completed site prep and installation work. The site has electricity and is collecting data. Once verification of data is complete, the site will go live.
- *Everman Johnson Park*: URS has delivered a shelter to the site and initial site preparation work is underway.
- *Decatur Thompson*: URS has delivered a shelter to the site and initial site preparation work is underway.
- *Keller*: URS has completed initial site preparation, however the shelter has not been delivered to this site. URS is waiting to install the shelter until the Wichita Falls site is ready for shelter installation.
- *Wichita Falls*: TCEQ is working with local Episcopal Church diocese to identify new location in Wichita Falls to establish the new monitor.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: The NTC has monitored data generated by the GC unit on UT Arlington campus, with particular attention to benzene levels. There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery:* Equipment delivery will continue to various URS and Orsat depots, including the AutoGC units to Orsat.
- *Site preparation and monitor installation:* URS and Orsat be working on site preparation and monitor installation for all Category C and D sites throughout the month of April.
- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #6

April 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #5 on March 31, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Elm Fork (Dallas Co.):* City of Dallas staff has offered tentative approval to construct air monitor at Elm Fork Soccer Complex. NTC has continued to work with staff to secure final approval of location.
 - *Tarrant Co. Southwest (Benbrook):* US Army Corps of Engineers has responded favorably to NTC's request to use USACE land for establishing an air monitor and is reviewing request with their real estate division.
 - *Johnson Co. Northwest:* JCSUD has offered tentative approval and NTC is working with them on site access agreement.

- *Gainesville*: NTC has contacted local real estate agent to assist in identifying appropriate property for air monitor station.
- *Lancaster (Dallas Co. Southeast)*: NTC is awaiting final approval from Lancaster City Council.
- *Abilene*: Although initial conversations with City of Abilene were promising, the City has since indicated that it does not have any available land for the air monitor. NTC is now working with private real estate agent to identify suitable monitor.
- *Eastland*: NTC is working with private real estate agent to identify suitable location.
- *Weatherford*: Weatherford College has not responded to NTC's request. NTC is now working with private real estate agent.
- *Mineral Wells (formerly Jacksboro)*: NTC has met with city staff in Mineral Wells and has identified suitable location. Proposal now goes before City Council for final approval.
- *DISH Airfield*: Construction in progress.
- *Flower Mound Shiloh*: Construction in progress.
- *Eagle Mountain Lake*: Construction in progress.
- *Everman Johnson Park*: Construction in progress.
- *Decatur Thompson*: Construction in progress.
- *Keller*: Construction in progress.
- *Wichita Falls*: TCEQ is working with local Episcopal Church diocese to identify new location in Wichita Falls to establish the new monitor.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online

tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery:* Equipment delivery will continue to various URS and Orsat depots, including the AutoGC units to Orsat.
- *Site preparation and monitor installation:* URS and Orsat be working on site preparation and monitor installation for all Category C and D sites throughout the month of April.
- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #7

May 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #6 on May 22, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Elm Fork (Formerly: Dallas Co.):* City of Dallas staff has offered tentative approval to construct air monitor at Elm Fork Soccer Complex. NTC has continued to work with staff to secure final approval of location.
 - *Benbrook Lake (Formerly: Tarrant Co. Southwest):* US Army Corps of Engineers gave final approval to for use of land at Benbrook Lake to establish an AutoGC monitor. NTC and USACE have signed a site access agreement and construction of the monitoring site is underway.

- *Godley FM 2331 (Formerly: Johnson Co. Northwest):* Johnson County Special Utility District gave final approval to for use of land to establish an AutoGC monitor. NTC and JCSUD have signed a site access agreement and construction of the monitoring site is underway.
- *Gainesville Doss St.:* NTC has signed site access agreement with Johnny Hunter, property owner in Gainesville. Site construction is pending.
- *Lancaster Cedardale (Formerly: Dallas Co. Southeast):* Lancaster City Council gave final approval to for use of land to establish a VOC canister monitor at Cedardale Park. NTC and the City of Lancaster have signed a site access agreement and construction of the monitoring site is underway.
- *Abilene:* NTC is working representatives from TCEQ's Region 3 office to secure access to property at Hardin-Simmons University. Site access is pending.
- *Eastland:* NTC is working with private real estate agent to identify suitable location.
- *Weatherford:* NTC is now working with private real estate agent.
- *Mineral Wells 23rd St. (formerly Jacksboro):* Mineral Wells City Council gave final approval to for use of land to establish a VOC canister monitor at a water utility site. NTC and the City of Mineral Wells have signed a site access agreement and construction of the monitoring site is underway.
- *DISH Airfield:* Construction is complete, monitor is live.
- *Flower Mound Shiloh:* Construction is complete, monitor is live.
- *Eagle Mountain Lake:* Construction is complete, monitor is live.
- *Everman Johnson Park:* Construction is complete, monitor is live.

- *Decatur Thompson*: Construction is complete, monitor is live.
- *Keller*: Construction in progress.
- *Wichita Falls*: TCEQ is working with Midwestern State University to identify new location in Wichita Falls to establish the new monitor.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery*: Equipment delivery will continue to various URS and Orsat depots, including the AutoGC units to Orsat.
- *Site preparation and monitor installation*: URS and Orsat be working on site preparation and monitor installation for Category A and B sites throughout the month of June.
- *Site selection meetings*: The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.

- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #8

June 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #7 on June 19, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Dallas Elm Fork:* City of Dallas has approved proposal to construct air monitor at Elm Fork Athletic Complex and NTC is reviewing site access agreement with the City.
 - *Benbrook Lake:* NTC and USACE have signed a site access agreement and construction of the monitoring site is underway.
 - *Godley FM 2331:* NTC and JCSUD have signed a site access agreement and construction of the monitoring site is underway.

- *Gainesville Doss St.:* NTC has signed site access agreement with Johnny Hunter, property owner in Gainesville. Site construction is pending availability of contractor.
- *Lancaster Cedardale:* NTC and the City of Lancaster have signed a site access agreement and construction of the monitoring site is underway.
- *Abilene:* NTC is working representatives from TCEQ's Region 3 office to secure access to property at Hardin-Simmons University. Site access is pending.
- *Bowie Patterson St. (formerly Eastland):* NTC has abandoned its efforts to secure a site in Eastland, and has approached the City of Bowie to establish a monitoring location within the city limits. The Principal Investigator met with Bowie's City Manager to evaluate potential locations. NTC's proposal is awaiting approval by Bowie's City Council. NTC and City Manager expects the proposal will be approved.
- *Weatherford Hwy. 180:* Working with a private real estate agent, NTC has identified a suitable privately-owned parcel of land for the monitoring station. NTC and the landowners are currently reviewing the site access agreement, with final approval expected by early July.
- *Mineral Wells 23rd St.:* NTC and the City of Mineral Wells have signed a site access agreement and construction of the monitoring site is underway.
- *DISH Airfield:* Construction is complete, monitor is live.
- *Flower Mound Shiloh:* Construction is complete, monitor is live.
- *Eagle Mountain Lake:* Construction is complete, monitor is live.
- *Everman Johnson Park:* Construction is complete, monitor is live.
- *Decatur Thompson:* Construction is complete, monitor is live.

- *Keller*: Construction in progress.
- *Wichita Falls*: TCEQ is working with Midwestern State University to identify new location in Wichita Falls to establish the new monitor.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions: NTC Principal Investigator has been available for questions from TCEQ Project Manager. NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery*: Equipment delivery will continue to various URS, Orsat, and NTC locations.
- *Site preparation and monitor installation*: URS and Orsat will continue site preparation and monitor installation for Category A and B sites throughout the month of July.
- *Site selection meetings*: The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.

- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #9

July 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #8 on July 16, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B). Progress for each site is detailed below:
 - *Dallas Elm Fork:* NTC and City of Dallas have executed a site access agreement. NTC and its subcontractor have performed a site walk-through with City of Dallas representative. Subcontractor is in initial phases of site construction.
 - *Fort Worth Benbrook Lake:* All equipment has been installed at the USACE site on Benbrook Lake. Site is now awaiting electricity connection from Oncor. Anticipated data collection start date is for mid-August.
 - *Godley FM 2331:* Site construction is complete and AutoGC is sampling. First valid data sample dated July 13, 2013.

- *Gainesville Doss St.:* All equipment has been installed on site. Site is now awaiting electricity connection from Oncor. Anticipated data collection start date is for mid-August.
- *Lancaster Cedardale:* All equipment has been installed on site. Site is now awaiting electricity connection from Oncor. Additional landscaping work will be performed in the fall when growing conditions are more favorable. Anticipated data collection start date is for mid-August.
- *Abilene:* NTC is working a representative from Hardin-Simmons University to secure access for establishing a monitoring station on campus. Site access is pending.
- *Bowie Patterson St. (formerly Eastland):* City of Bowie has approved NTC's monitoring proposal and both parties have executed the site access agreement. NTC's subcontractor is in initial phases of site construction.
- *Weatherford Hwy. 180:* Private landowners have approved NTC's monitoring proposal and both parties have executed the site access agreement. NTC's subcontractor is in initial phases of site construction.
- *Mineral Wells 23rd St.:* All equipment has been installed on site. Site is now awaiting electricity connection from Oncor. Anticipated data collection start date is for mid-August.
- *DISH Airfield:* Construction is complete, monitor is live.
- *Flower Mound Shiloh:* Construction is complete, monitor is live.
- *Eagle Mountain Lake:* Construction is complete, monitor is live.
- *Everman Johnson Park:* Construction is complete, monitor is live.
- *Decatur Thompson:* Construction is complete, monitor is live.

- *Keller*: Construction is complete, monitor is taking samples. Initial samples have been compromised due to software errors. URS and GDAir are working on resolving these issues.
- *Wichita Falls*: TCEQ is working with Midwestern State University to identify new location in Wichita Falls to establish the new monitor. Awaiting final approval of site agreement from Board of Regents on August 8, 2013.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions:

- NTC Principal Investigator visited all completed monitor stations to take photos of each monitor for final report and TCEQ website.
- NTC Principal Investigator has been available for questions from TCEQ Project Manager.
- NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery*: Equipment delivery will continue to various URS, Orsat, and NTC locations.
- *Site preparation and monitor installation*: URS and Orsat will continue site preparation and monitor installation for Category A, B, and D sites throughout the month of August.

- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #10

August 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #9 on August 2, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has continued work to identify specific locations for new air monitoring sites (Categories A & B).
- *Site installation:* URS and NTC have continued installation of new sites.
- *Monitoring operations:* URS has commenced monitoring operations at numerous sites.
- *Site status reports:* The status of each individual site is as follows:
 - *Dallas Elm Fork:* All equipment has been installed on location. Site is now awaiting electricity from Oncor. Anticipated data collection start date is mid-September.
 - *Fort Worth Benbrook Lake:* All equipment has been installed at the USACE site on Benbrook Lake. Site is still awaiting

electricity connection from Oncor. Anticipated data collection start date has been moved to mid-September.

- *Godley FM 2331*: Construction is complete, monitor is live. First valid data sample dated July 13, 2013.
- *Gainesville Doss St.*: All equipment has been installed on site. Site is still awaiting electricity connection from Oncor. Anticipated data collection start date has been moved to mid-September.
- *Lancaster Cedardale*: Construction is complete, monitor is live. First valid data sample dated August 26, 2013. Additional landscaping work will be performed in the fall when growing conditions are more favorable.
- *Abilene*: After discussions with representatives from Hardin-Simmons University, NTC has determined that securing site access on university property is very unlikely. NTC is now working with the property management company Harris Acoustics to identify a suitable location. Site access is pending.
- *Bowie Patterson St.*: All equipment has been installed on location. Site is now awaiting electricity from local power provider. Anticipated data collection start date is mid-September.
- *Weatherford Hwy. 180*: All equipment has been installed on location. Site is now awaiting electricity from Oncor. Anticipated data collection start date is mid-September.
- *Mineral Wells 23rd St.*: Construction is complete, monitor is live. First valid data sample dated August 20, 2013.
- *DISH Airfield*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Flower Mound Shiloh*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Eagle Mountain Lake*: Construction is complete, monitor is live. First valid data sample dated April 8, 2013.

- *Everman Johnson Park*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Decatur Thompson*: Construction is complete, monitor is live. First valid data sample dated June 5, 2013.
- *Keller*: Construction is complete, monitor is live. Previous sampling issues have been resolved. First valid data sample dated July 14, 2013.
- *Wichita Falls*: Midwestern State University has approved NTC/TCEQ monitoring proposal and has offered site for new monitor. Monitor construction will commence in early September.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions:

- NTC Principal Investigator has continued to visit new monitor stations as they have come online to ensure work is complete and take photos for TCEQ website and final report.
- NTC Principal Investigator has made public presentation on the air monitor program to various groups, including the Dallas Regional Mobility Council and the Tarrant County MAPP Steering Committee.
- NTC Principal Investigator has been available for questions from TCEQ Project Manager.
- NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery:* Equipment delivery will continue to various URS, Orsat, and NTC locations.
- *Site preparation and monitor installation:* URS and Orsat will continue site preparation and monitor installation for Category A, B, and D sites.
- *Site selection meetings:* The NTC will continue to meet with stakeholders from communities slated to receive an air monitor to inform interested parties about the project, determine exact monitor locations, and negotiate site agreements.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition and to gain familiarity with the air monitor network.

MONTHLY PROGRESS REPORT, #11

September 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #10 on September 6, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has finalized the evaluation and selection of air monitor locations (Categories A & B).
- *Site installation:* URS and NTC have continued installation of new sites.
- *Monitoring operations:* URS has commenced monitoring operations at numerous sites.
- *Site status reports:* The status of each individual site is as follows:
 - *Dallas Elm Fork:* Completion of internal electrical work was incomplete at time of last progress report; however, internal electrical work is now complete, and the site is awaiting electricity installation from Oncor. Anticipated data collection start date is mid-October.

- *Fort Worth Benbrook Lake*: Electrical service has been connected and monitor now live. First valid sample dated October 1, 2013.
- *Godley FM 2331*: Construction is complete, monitor is live. First valid data sample dated July 13, 2013.
- *Gainesville Doss St.*: Electrical service has been connected and monitor now live. First valid sample dated October 1, 2013.
- *Lancaster Cedardale*: Construction is complete, monitor is live. First valid data sample dated August 26, 2013. Additional landscaping work will be performed in the fall when growing conditions are more favorable.
- *Abilene N. 3rd St.*: NTC has signed lease with property management company Harris Acoustics and secured access for site near downtown Abilene. NTC Principal Investigator and URS sub-contractor have performed initial site evaluation. Due to delays at other monitors, construction has been delayed to mid-October.
- *Bowie Patterson St.*: All equipment has been installed on location. Site is still awaiting electricity from local power provider. Anticipated data collection start date is mid-October.
- *Weatherford Hwy. 180*: All equipment has been installed on location. Site is still awaiting electricity from Oncor. Anticipated data collection start date is mid-October.
- *Mineral Wells 23rd St.*: Construction is complete, monitor is live. First valid data sample dated August 20, 2013.
- *DISH Airfield*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Flower Mound Shiloh*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Eagle Mountain Lake*: Construction is complete, monitor is live. First valid data sample dated April 8, 2013.

- *Everman Johnson Park*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Decatur Thompson*: Construction is complete, monitor is live. First valid data sample dated June 5, 2013.
- *Keller*: Construction is complete, monitor is live. Previous sampling issues have been resolved. First valid data sample dated July 14, 2013.
- *Wichita Falls MWSU*: Midwestern State University has approved NTC/TCEQ monitoring proposal and has offered site for new monitor. NTC Principal Investigator and URS sub-contractor have performed initial site evaluation. Due to delays at other monitors, construction has been delayed to mid-October.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions:

- NTC Principal Investigator has continued to visit new monitor stations as they have come online to ensure work is complete and take photos for TCEQ website and final report.
- NTC Principal Investigator has made public presentation on the air monitor program to various groups, including class at University of Texas at Arlington.
- NTC Principal Investigator has been available for questions from TCEQ Project Manager.

- NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery:* Equipment delivery will continue to various URS, Orsat, and NTC locations.
- *Site preparation and monitor installation:* URS and Orsat will continue site preparation and monitor installation for Category A, B, and D.
- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition, ensure work is completed, provide quality assurance to TCEQ, and other administrative tasks.

MONTHLY PROGRESS REPORT, #12

October 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #11 on October 3 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS is continuing to procure the necessary equipment to implement the air monitor network. Full details of procured equipment available below.
- *Site evaluation and selection:* Using the general recommendations provided by the NTC Air Monitoring Committee, the NTC Principal Investigator has finalized the evaluation and selection of air monitor locations (Categories A & B).
- *Site installation:* URS and NTC have continued installation of new sites.
- *Monitoring operations:* URS has commenced monitoring operations at numerous sites.
- *Site status reports:* The status of each individual site is as follows:
 - *Dallas Elm Fork:* Electrical service has been connected and monitor is now live. Anticipated first valid sample date is November 11, 2013.
 - *Fort Worth Benbrook Lake:* Construction is complete, monitor is live. First valid sample dated October 1, 2013.

- *Godley FM 2331*: Construction is complete, monitor is live. First valid data sample dated July 13, 2013.
- *Gainesville Doss St.*: Electrical service has been connected and monitor now live. First valid sample dated October 1, 2013.
- *Lancaster Cedardale*: Construction is complete, monitor is live. First valid data sample dated August 26, 2013. Additional landscaping work will be performed in the fall when growing conditions are more favorable.
- *Abilene N. 3rd St.*: Construction of site is in-progress. NTC Principal Investigator met with City of Abilene officials to resolve building permit issues. Construction is expected to be complete by November 18, 2013. Final date for electricity to be installed is TBD.
- *Bowie Patterson St.*: Construction is complete, monitor is live. First valid data sample dated October 13, 2013.
- *Weatherford Hwy. 180*: Construction is complete, monitor is live. First valid data sample dated October 13, 2013.
- *Mineral Wells 23rd St.*: Construction is complete, monitor is live. First valid data sample dated August 20, 2013.
- *DISH Airfield*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Flower Mound Shiloh*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Eagle Mountain Lake*: Construction is complete, monitor is live. First valid data sample dated April 8, 2013.
- *Everman Johnson Park*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Decatur Thompson*: Construction is complete, monitor is live. First valid data sample dated June 5, 2013.
- *Keller*: Construction is complete, monitor is live. Previous sampling issues have been resolved. First valid data sample dated July 14, 2013.

- *Wichita Falls MWSU*: Construction of site is in-progress. Construction is expected to be complete by November 18, 2013. Final date for electricity to be installed is TBD.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including arranging and leading weekly conference calls and creating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues: There were no reported incidences since the last report.

Task 4– Reporting/Availability for Questions:

- NTC Principal Investigator has continued to visit new monitor stations as they have come online to ensure work is complete and take photos for TCEQ website and final report.
- NTC Principal Investigator has made public presentation on the air monitor program to various groups, including class at University of Texas at Arlington.
- NTC Principal Investigator has been available for questions from TCEQ Project Manager.
- NTC Principal Investigator has submitted the monthly progress report to TCEQ as per Deliverable 4.1 in the POA.

Planned future activities: For the next monthly reporting period, the NTC is planning the following activities:

- *Equipment delivery*: Final equipment delivery will continue to various URS, Orsat, and NTC locations.
- *Site preparation and monitor installation*: URS and Orsat will continue site preparation and monitor installation for Category A, B, and D.

- *Visit air monitor locations:* NTC staff will travel to air monitor sites to evaluate their current condition, ensure work is completed, provide quality assurance to TCEQ, and other administrative tasks.

MONTHLY PROGRESS REPORT, #13

November, December, and January 2013

Project Title: Continued Implementation of SB527 Monitoring Program

Project No.: 582-12-23420-FY13-01

Summary of recent activity: Since submitting Progress Report #11 on November 12, 2013, the North Texas Commission has performed the following activities:

Task 1 – Arlington UT Campus Air Monitor: NTC and its vendor URS Corp. have continued to operate and maintain the Arlington UT Campus Air Monitor.

Task 2 – Deploy, Operate, Report Data, and Maintain Approved Air Monitors:

- *Equipment purchase and delivery:* URS has completed the procurement of the necessary equipment to implement the air monitor network.
- *Site evaluation and selection:* The NTC Principal Investigator has finalized the evaluation and selection of air monitor locations.
- *Site installation:* URS and NTC have completed the installation of the new air monitoring sites.
- *Monitoring operations:* URS has commenced monitoring operations at all air monitoring sites.
- *Site status reports:* The status of each individual site is as follows:
 - *Dallas Elm Fork:* Construction is complete, monitor is live. First valid sample dated November 18, 2013.
 - *Fort Worth Benbrook Lake:* Construction is complete, monitor is live. First valid sample dated October 1, 2013.
 - *Godley FM 2331:* Construction is complete, monitor is live. First valid data sample dated July 13, 2013.
 - *Gainesville Doss St.:* Construction is complete, monitor is live. First valid sample dated October 1, 2013.

- *Lancaster Cedardale*: Construction is complete, monitor is live. First valid data sample dated August 26, 2013.
- *Abilene N. 3rd St.*: After numerous delays with final completion of electrical service and municipal permits, construction is now complete and monitor is live. First valid sample dated December 18, 2013.
- *Bowie Patterson St.*: Construction is complete, monitor is live. First valid data sample dated October 13, 2013.
- *Weatherford Hwy. 180*: Construction is complete, monitor is live. First valid data sample dated October 13, 2013.
- *Mineral Wells 23rd St.*: Construction is complete, monitor is live. First valid data sample dated August 20, 2013.
- *DISH Airfield*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Flower Mound Shiloh*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Eagle Mountain Lake*: Construction is complete, monitor is live. First valid data sample dated April 8, 2013.
- *Everman Johnson Park*: Construction is complete, monitor is live. First valid data sample dated May 8, 2013.
- *Decatur Thompson*: Construction is complete, monitor is live. First valid data sample dated June 5, 2013.
- *Keller*: Construction is complete, monitor is live. First valid data sample dated July 14, 2013.
- *Wichita Falls MWSU*: After numerous delays with permitting and installation of electrical service and permits, construction is now complete and monitor is live. First valid sample dated December 18, 2013.
- *Various Administrative Tasks*: The NTC Principal Investigator has worked on various administrative tasks for coordinating NTC, TCEQ, URS, and Orsat efforts on this project. Tasks have including

arranging and leading weekly conference calls and creating and updating online tools including maps and calendars to share relevant information about the project with stakeholders.

Task 3 – Respond to Monitoring Issues:

- On January 16, 2013 at 16:00 CST, the Kennedale Treepoint AutoGC registered a “medium trigger” for Benzene with a reading of 112.38 ppbV (short-term health AMCV=180 ppbV). NTC Principal Investigator alerted Orsat monitoring team of the issue. Orsat determined that the reading was invalid and due to operator error.
- There were no other incidences since the last report.

Task 4– Reporting/Availability for Questions:

- NTC Principal Investigator has continued to visit new monitor stations as they have come online to ensure work is complete and take photos for TCEQ website and final report.
- NTC Principal Investigator has been available for questions from TCEQ Project Manager.
- NTC Principal Investigator has submitted a Draft of Final Report on January 23, 2014 to TCEQ Project Manager, as per Deliverable 4.3.
- NTC Principal Investigator will submit a Final Report to TCEQ Project Manager by January 31, 2014, as per Deliverable 4.4.

Planned future activities: As this is the final progress report under POA 582-12-23420-FY13-01, there are no future planned activities for this POA. However, future work on the project will be conducted under POA 582-12-23420-FY14-02.

APPENDIX B:
SUMMARY OF AIR QUALITY DATA

Summary of Auto GC Data through November 2013

Site Name	Start Date	Last QA Audit	To Date Auto GC Data Capture (%)	November Auto GC Data Capture (%)	To Date Met Data Capture (%)	November Met Data Capture (%)	To Date Avg Benzene Concentration		November Avg Benzene Concentration		To Date Any Value > AMCV (Y/N)	November Any Value > AMCV (Y/N)
							ppbv	ppbc	ppbv	ppbc		
Dallas Elm Fork	11/18/2013	12/18/2013	94	94	98	98	0.16 ppbv	0.99 ppbc	0.16 ppbv	0.99 ppbc	No	No
Fort Worth Benbrook Lake	10/1/2013	12/17/2013	98	98	99	98	0.12 ppbv	0.69 ppbc	0.13 ppbv	0.79 ppbc	No	No
Godley FM 2331	7/13/2013	12/17/2013	91	97	99	97	0.08 ppbv	0.47 ppbc	0.11 ppbv	0.66 ppbc	No	No
Dish Airfield	5/8/2013	12/16/2013	91	79 ¹	96	99	0.11 ppbv	0.68 ppbc	0.18 ppbv	1.07 ppbc	No	No
Flower Mound Shiloh	5/8/2013	12/18/2013	95	97	96	99	0.10 ppbv	0.62 ppbc	0.16 ppbv	0.97 ppbc	No	No
Eagle Mountain Lake	4/8/2013	12/16/2013	95	92	97 ²	84 ²	0.11 ppbv	0.65 ppbc	0.16 ppbv	0.97 ppbc	No	No
Everman Johnson Park	5/8/2013	12/18/2013	95	99	100	98	0.11 ppbv	0.66 ppbc	0.17 ppbv	1.04 ppbc	No	No
Decatur Thompson	6/5/2013	12/17/2013	94	97	99	97	0.11 ppbv	0.63 ppbc	0.12 ppbv	0.75 ppbc	No	No
Arlington UT Campus	9/20/2012	12/19/2013	97 ³	97	100	98	0.17 ppbv	0.99 ppbc	0.19 ppbv	1.13 ppbc	No	No

¹ Site maintenance conducted this month

² Met data validated by TCEQ

³ Excluding first month (Sept 2012)

Summary of Canister Data through November 2013

Site Name	Start Date	Last QA Audit	To Date # EPA Samples Scheduled	To Date # Valid Samples	November # EPA Samples Scheduled	November # Valid Samples	To Date Met Data Capture (%)	November Met Data Capture (%)	To Date Avg Benzene Concentration	November Avg Benzene Concentration
Lancaster Cedardale	8/26/2013	12/16/2013	17	17	5	5	100	99	0.24 ppbv	0.23 ppbv
Abilene N. 3rd St.	12/17/2013	12/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bowie Patterson St.	10/13/2013	12/17/2013	9	6	5	5	98	97	0.24 ppbv	0.23 ppbv
Weatherford Highway 180	10/13/2013	12/17/2013	9	8	5	4	97	95	0.21 ppbv	0.25 ppbv
Mineral Wells 23rd St.	8/20/2013	12/17/2013	18	18	5	5	91	98	0.21 ppbv	0.27 ppbv
Keller	7/14/2013	12/16/2013	24	21	5	5	N/A	N/A	0.22 ppbv	0.38 ppbv
Wichita Falls MWSU	12/17/2013	12/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gainesville Doss	10/1/2013	12/16/2013	11	8	5	2	95	90	0.32 ppbv	0.44 ppbv

General Comments:

- To Date refers to start date through current month
- Benzene reported as compound of most interest from a health perspective
- Air monitoring comparison values (AMCVs) are defined by the TCEQ as chemical-specific air concentrations set to protect human health and welfare
- To Date Value > AMCV refers to if any target compound concentration found greater than AMCV